

Publication List of Jacob Chih-Ching Huang 黃志青

(NSC 302 表)

(A) Refereed Journal papers (corresponding author*)

1. J. C. Huang, O. Ajaja, and A. J. Ardell, "Irradiation Damage in Proton Irradiated Pd-Cr Alloys", *J. of Metals*, vol. 35 (12), 1983, p. 122.
2. J. C. Huang and A. J. Ardell, "On the Crystal Structure and Stability of the T₁ Precipitates in Aged Al-Li-Cu Alloys", *Mater. Sci. & Tech.*, vol. 3, 1987, pp. 176-188.
3. J. C. Huang and A. J. Ardell, "Strengthening Mechanisms Associated with T₁ Particles in Two Al-Li-Cu Alloys", *J. de Physique*, vol. C3, 1987, pp. 373-383.
4. J. C. Huang and A. J. Ardell, "Precipitate Strengthening of Binary Al-Li Alloys by Delta' Precipitates", *J. of Metals*, vol. 39 (7), 1987, p. A48.
5. J. C. Huang*, G. T. Gray, P. S. Follansbee, "Analysis of the Strengthening Mechanisms in Ni and Ni-C Alloys", *J. of Metals*, vol. 39 (10), 1987, p. A6.
6. J. C. Huang* and G. T. Gray, "Microstructural Characterization of Ag Shock-Loaded at High Pressure", *Scripta Metall.*, vol. 22, 1988, pp. 545-550.
7. J. C. Huang and A. J. Ardell and O. Ajaja, "Precipitation and Irradiation Damage in Proton Irradiated Pd-Cr Alloys", *J. Mater. Sci.*, vol. 23, 1988, pp. 1206-1218.
8. J. C. Huang* and G. T. Gray, "Substructure Evolution and Deformation Modes in Shock-Loaded Nb", *Mater. Sci. Eng.*, vol. A103, 1988, pp. 241-255.
9. J. C. Huang and A. J. Ardell, "Addition Rules and the Contribution of delta' Precipitates to Strengthening of Aged Al-Li-Cu Alloys", *Acta Metall.*, vol. 36, 1988, pp. 2995-3006.
10. A. J. Ardell and J. C. Huang, "Anti-phase Boundary Energy and the Transition from Shearing to Looping in Alloys Strengthened by Ordered Precipitates", *Phil. Mag. lett.*, vol. 58, 1988, pp. 189-197.
11. J. C. Huang* and G. T. Gray, "Substructure Evolution and Mechanism Response of Shock-Loaded Al-Li-Cu Alloys", *J. of Metals*, vol. 40 (7), 1988, p. A31.
12. J. C. Huang and A. J. Ardell, "Precipitation Strengthening of Binary Al-Li Alloys by delta' Precipitates", *Mater. Sci. Eng.*, vol. A104, 1988, pp. 149-156.
13. J. C. Huang* and G. T. Gray, "Influence of Precipitates on Mechanical Response and Substructure Evolution in Shock-Loaded and Quasi-Statically Deformed Al-Li-Cu Alloys", *Metall Trans.*, vol. 20A, 1989, pp. 1065-1075.
14. J. C. Huang* and G. T. Gray, "Microband Formation in Shock-Loaded and Cold-Rolled Metals", *Acta Metall.*, vol. 37, 1989, pp. 3335-3347.
15. J. C. Huang* and G. T. Gray, "Serrated Flow and Negative Rate Sensitivity in Al-Li Base Alloys", *Scripta Metall. Mater.*, vol. 24, 1990, pp. 85-90.
16. P. S. Follansbee, J. C. Huang and G. T. Gray, "Low Temperature and High Strain Rate Deformation of Ni and Ni-C Alloys and Analysis of the Constitutive Behavior According to an Internal State Variable Model", *Acta Metall. Mater.*, vol. 38, 1990, pp. 1241-1254.
17. J. C. Huang*, "Mechanical Response of B₄C/B Fiber-Reinforced Ti-6Al-4V Composites under Dynamic Shock and Quasi-Static Low-Rate Loading", *Chinese Journal of Materials Science*, vol. 22, 1990, pp. 207-215.
18. G. T. Gray and J. C. Huang, "Influence of Repeated Shock Loading of the Substructure Evolution of 99.99 wt% Aluminum", *Mater. Sci. Eng.*, vol. 145, 1991, pp. 21-35.
19. J. C. Huang*, "On the Crystal Structure of the T₁ Phase in Al-Li-Cu Alloys", *Scripta Metall. et Mater.*, vol. 27, 1992, pp. 755-760.

20. T.-R. Chen and J. C. Huang*, "The Forming Behavior and Post-Form Properties of Superplastic 8090 Al-Li Thin Sheets", Chinese Journal of Materials Science, vol. 25, no. 1, 1993, pp. 34-49.
21. H.-P. Pu and J. C. Huang*, "Low Temperature Superplasticity in 8090 Al-Li Alloys", Scripta Metall. Mater., vol. 28, 1993, pp. 1125-1130.
22. J. C. Huang*, Y.-S. Lo, and G. T. Gray, "Deformation under Shock and Quasi-Static Loadig in Metal-Matrix Composites", Mater. Chem. Phys., vol. 35, no.1, 1993, pp. 71-85.
23. L. Wei and J. C. Huang*, "Influence of Heat Treatment and Hot Working on the Fracture Toughness of Cast Aluminium Base Composites", Mater. Sci. & Tech., vol. 9, no. 10, 1993, pp. 841-852.
24. J. C. Huang*, Y. D. Shen, and N. J. Ho, "Characterization of the Electron Beam Welding of Superplastic 8090 Al-Li Alloys", Mater. Sci. & Tech., vol. 10, 1994, pp. 647-657.
25. T.-R. Chen and J. C. Huang*, J. M. Liauo, and Y. M. Hwang, "Effect of Lubrication on Superplastic Forming of 8090 Al-Li Sheets", Scripta Metall. Mater., vol. 31, 1994, pp. 309-314.
26. C. S. Liauo, H. Chang, J. C. Huang*, and P.-W. Kao, "Microstructural Evolution and Mechanical Properties of AC8A/Al₂O₃ Short-Fiber Composites Long Exposed at 150-350 °C", Metall. & Mater. Trans., vol. 26A, 1995, pp. 143-158.
27. H.-P. Pu, F. C. Liu, and J. C. Huang*, "Characterization and Analysis of Low-Temperature Superplasticity in 8090 Al-Li Alloys", Metall. Mater. Trans., vol. 26A, 1995, pp. 1153-1166.
28. H.-P. Pu and J. C. Huang*, "Processing Routes for Intertransformation between Low-Temperature and High-Temperature Superplasticity in 8090 Al-Li Alloys", Scripta Metall. Mater., vol. 33, 1995, pp. 383-389.
29. Y. M. Hwang, J. M. Liew, T. R. Chen, and J. C. Huang, "Analysis of Superplastic Blow-Forming in a Circular Close-Die", J. Mater. Processing Tech., vol. 57, 1996, pp. 360-372.
30. M. F. Lee, J. C. Huang*, and N. J. Ho, "Microstructure and Mechanical Characterisation of Laser-Beam Welding of a 8090 Al-Li Thin Sheet", J. Mater. Sci., vol. 31, 1996, pp. 1455-1468.
31. H. C. Fu and J. C. Huang*, "Superplasticity Behavior of Super- α_2 Ti₃Al Intermetallic Compound", Chinese Journal of Materials Science, vol. 28, 1996, pp. 28-43.
32. B. Y. Lou and J. C. Huang*, "Strain Rate Dependence in 6061 and 2024 Aluminum Alloys and Composites", Mater. Sci. Forum, vol. 217-222, 1996, pp. 1103-1108.
33. J. C. Huang*, S. C. Chen, M. F. Lee, and Y. D. Shen, "Joining Efficiency Evaluation of Superplastic 8090 Al-Li Thin Sheets Using Electron or Laser Beam Welding", Mater. Sci. Forum, vol. 217-222, 1996, pp. 1697-1702.
34. T.-R. Chen, G.-J. Peng, and J. C. Huang*, "Quench Sensitivity and its Effects on Mechanical Properties of the 8090 Al-Li Superplastic Thin Sheets", Mater. Sci. Forum, vol. 217-222, 1996, pp. 1073-1078.
35. H.-C. Shih, N. J. Ho, and J. C. Huang, "Kinetic Study of Precipitation Behavior in Al-Cu-Mg and 2024 Aluminum Alloys", Metall. Mater. Trans., vol. 27A, 1996, pp. 2479-2494.
36. T.-R. Chen and J. C. Huang*, and Y. M. Hwang, "Fundamental Characterization of Hemisphere Free Bulging Using Superplastic 8090 Al-Li Sheets", Mater. Sci. & Tech., vol. 12, 1996, pp. 495-504.

37. T.-R. Chen, G. J. Peng, and J. C. Huang*, "Low Quench Sensitivity in Superplastic 8090 Al-Li Thin Sheets", *Metall. Mater. Trans.*, vol. 27A, 1996, pp. 2923-2933.
38. B. Y. Lou and J. C. Huang*, "Failure Characteristics of 6061/Al₂O₃ and 2014/Al₂O₃ Composites as a Function of Loading Rate", *Metall. Mater. Trans.*, vol. 27A, 1996, pp. 3095-3107.
39. S. C. Chen and J. C. Huang*, "The Lap-Shear and T-Peel Strength of Overlap Joints of Superplastic 8090 Al-Li Sheets Bonded by Electron-Beam and Laser-Beam Welding", *Mater. Sci. & Tech.*, vol. 13, 1997, pp. 143-155.
40. Y.-M. Hwang, J.-S. Yang, T.-R. Chen, and J. C. Huang, "Analysis of Superplastic Sheet Metal Forming in a Circular Close-Die Considering Non-uniform Thinning", *J. Mater. Processing Tech.*, vol. 65, 1997, pp. 215-227.
41. B. Y. Lou and J. C. Huang*, "High Strain Rate Superplasticity in Aluminum Matrix Composites", *Chinese Journal of Materials Science*, vol. 29, no. 2, 1997, pp. 81-97.
42. C. S. Liau and J. C. Huang*, "Strengthening Effects in AC8A/Al₂O₃ Short-Fiber Composites as a Function of Temperature and Strain Rate", *Metall. Mater. Trans.*, vol. 28A, 1997, pp. 1859-1869.
43. H. C. Fu, J. C. Huang*, T. D. Wang, and C. C. Bampton, "Evolution of microstructure and Superplastic Deformation Mechanisms of Super- α_2 Ti₃Al Thin Sheets as a Function of Strain", *Acta Mater.*, vol. 46, 1998, pp. 465-479.
44. Y.-M. Hwang, J.-S. Yang, T.-R. Chen, J. C. Huang, E.-U. Wu, "Analysis of Superplastic Blow-Forming in a Conical Closed Die", *Int. J. Mech. Sci.*, vol. 40, 1998, pp. 867-885.
45. S. C. Chen and J. C. Huang*, "Normalization of Charpy or Bending Data While Using Non-Standard Specimens", *Chinese Journal of Materials Science*, vol. 33, no. 3, 1998, pp. 229-237.
46. J. C. Huang*, H. C. Fu, B. Y. Lou, and H. L. Lee, "On Activation Energy during Initial Stage of Superplastic Deformation", *Scripta Mater.*, vol. 39, 1998, pp. 95-102.
47. C. S. Liau and J. C. Huang*, "Relationship between Apparent and True Activation Energies", *Scripta Mater.*, vol. 39, 1998, pp. 873-879.
48. J. C. Huang* and T. H. Chuang, "Progress on Superplasticity and Superplastic Forming in Taiwan during 1987-1997", *Materials Chemistry and Physics*, vol. 57, 1999, pp. 195-206.
49. T.-R. Chen and J. C. Huang*, "Grain Boundary Sliding Seen in Multiaxial Forming and Uniaxial Tensile Tests", *Metall. Mater. Trans.*, vol. 30A, 1999, pp. 53-64.
50. I. C. Hsiao and J. C. Huang*, "Microstructure Evolution in 5083 Al-Mg Alloy Exhibiting Low Temperature Superplasticity at 250°C", *Mater. Sci. Forum*, vol. 304-306, 1999, pp. 639-644.
51. C. S. Liau, B. Y. Lou, J. C. Huang*, C. Y. Cheng, P. W. Kao, and W. H. Huang, "Superplastic Deformation of Aluminum System at 600-650°C with or without Presence of Liquid Phase", *Mater. Sci. Forum*, vol. 304-306, 1999, pp. 267-272.
52. T.-R. Chen, J. C. Huang*, Y. M. Hwang, and T. D. Wang, "Different Friction Coefficients at Different Positions of Superplastically Formed Parts", *Mater. Sci. Forum*, vol. 304-306, 1999, pp. 741-746.
53. J. C. Huang* and T. H. Chuang, "Recent Research and Development on Superplasticity", *Mater. Sci. Forum*, vol. 304-306, 1999, pp. 225-236.
54. I. C. Hsiao and J. C. Huang*, "Development of Low Temperature Superplasticity in Commercial 5083 Al-Mg Alloys", *Scripta Mater.*, vol. 40, 1999, pp. 697-703.
55. S. C. Chen and J. C. Huang*, "Influence of Welding Parameters on Microstructures and

- Mechanical Properties of Electron Beam Welded Aluminum-Lithium Plates", Mater. Sci. & Tech., vol. 15, 1999, pp. 965-978.
56. I. C. Hsiao, J. C. Huang*, and S. W. Su, "Grain-Structure and Texture Evolution and Deformation Mechanism during Low Temperature Superplastic Deformation in 5083 Al-Mg alloy", Mater. Trans, JIM, vol. 40, 1999, pp. 744-753.
 57. S. C. Chen and J. C. Huang*, "Comparison of Post-Weld Microstructures and Mechanical Properties of Electron- and Laser-Beam Welded Al Plates", Mater. Trans, JIM, vol. 40, 1999, pp. 1069-1078.
 58. C. S. Liau and J. C. Huang*, "Constitutional Equations for AC8A/Al₂O₃ Short-Fiber Composites as a Function of Temperature and Strain Rate", Mater. Sci. Eng., vol. A271, 1999, pp. 275-285.
 59. C. S. Liau, H. C. Fu, and J. C. Huang*, "On the β -Transus and Order/Disorder Transition Temperature in Superplastic Super α_2 Ti₃Al Base Alloy", Mater. Sci. Eng., vol. A271, 1999, pp. 79-90.
 60. S. W. Su, I. C. Hsiao, and J. C. Huang*, "Texture Evolution during Low Temperature Superplasticity in Aluminum Alloys", Key Eng. Mater., vol. 177, 2000, pp. 613-618.
 61. J. C. Huang*, I. C. Hsiao, T. D. Wang, and B. Y. Lou, "EBSD Study on Grain Boundary Characteristics in Fine-Grained Al Alloys", Scripta Mater., vol. 43, 2000, pp. 213-220.
 62. I. C. Hsiao, S. W. Su, and J. C. Huang*, "Evolution of Texture and Grain Misorientation in an Al-Mg Alloy Exhibiting Low Temperature Superplasticity", Metall. Mater. Trans., vol. 31A, 2000, pp. 2169-2180.
 63. J. C. Huang*, "Recent Achievements in Development of Low Temperature and High Rate Superplastic Materials", J. Mater. Sci. Tech., vol. 17, 2000, pp. 19-20.
 64. T. D. Wang and J. C. Huang*, "Deformation Mode during High Strain Rate Superplasticity in 6061 Alloys with 1% SiO₂ Nano-Particles", Mater. Sci. Forum, vol. 357-359, 2001, pp. 515-520.
 65. B. Y. Lou, T. D. Wang, J. C. Huang*, and T. G. Langdon, "On the Activation Energy of 6061 and 1050 Al Based Alloys and Composites Deformed at Ultrahigh Temperatures", Mater. Sci. Forum, vol. 357-359, 2001, pp. 545-550.
 66. I. C. Hsiao and J. C. Huang*, "Characterization of Grain Boundary Properties in Low Temperature Superplastic Al Based Alloys Using Electron Backscattered Diffraction", Mater. Sci. Forum, vol. 357-359, 2001, pp. 381-386.
 67. T. D. Wang and J. C. Huang*, "High Strain Rate Superplasticity in 6061 Alloys with 1% SiO₂ Nano-Particles", Mater. Trans. JIM, vol. 42, 2001, pp. 1781-1789.
 68. R. Y. Huang, S. C. Chen, and J. C. Huang*, "Electron and Laser Beam Welding of High Strain Rate Superplastic Al-6061/SiC Composites", Metall. Mater. Trans., vol. 32A, 2001, pp. 2575-2584.
 69. B. Y. Lou, J. C. Huang*, T. D. Wang, and T. G. Langdon, "Flow Behavior of Aluminum-Based Materials at Ultrahigh Temperatures in the Presence of a Liquid Phase", Mater. Trans. JIM, vol. 43, 2002, pp. 501-509.
 70. S. F. Su, J. C. Huang*, H. K. Lin, and N. J. Ho, "Electron Beam Welding Behavior in Mg-Al-Based Alloys", Metall. Mater. Trans., vol. 33A, 2002, pp. 1461-1473.
 71. I. C. Hsiao and J. C. Huang*, "Deformation Mechanisms during Low and High Temperature Superplasticity in 5083 Al-Mg Alloy", Metall. Mater. Trans, vol. 33A, 2002, pp. 1373-1384.
 72. H. K. Lin and J. C. Huang*, "Fabrication of High Strain Rate and Low Temperature

- Superplasticity in AZ31 Mg Alloy Using Simple High-Extrusion-Ratio Extrusion Method”, Mater. Trans. JIM, vol. 43, 2002, pp. 2424-2432.
- 73. Y.-M. Hwang, H. S. Lay, and J. C. Huang, "Study on Superplastic Blow Forming of 8090 Al-Li Sheets in an Ellip-Cylindrical Closed Die", Itnl. J. Machine Tools & Manufacture, vol. 42, 2002, pp. 1363-1372.
 - 74. K. L. Yang, J. C. Huang*, and Y. N. Wang, “Phase Evolution and Mechanical Behavior of Super α_2 Ti₃Al Based Alloy during Superplastic Deformation at Lower Temperatures of 700-900°C”, Key Engineering Materials, vol. 233-236, 2003, pp. 881-886.
 - 75. H. K. Lin and J. C. Huang*, “Fabrication of Low Temperature Superplastic AZ91 Mg Alloy Using Simple High-Extrusion-Ratio Extrusion Method”, Key Engineering Materials, vols. 233-236, 2003, pp. 875-880.
 - 76. Y. N. Wang and J. C. Huang*, “Comparison of Grain Boundary Sliding in Fine-Grained Mg and Al alloys during Superplastic Deformation”, Scripta Mater., vol. 48, 2003, pp. 1117-1122.
 - 77. K. L. Yang, J. C. Huang*, and Y. N. Wang, “Phase Transformation in the β Phase of Super α_2 Ti₃Al Based Alloys during Static Annealing and Superplastic Deformation at 700-1000°C”, Acta Mater., vol. 51, 2003, pp. 2577-2594.
 - 78. P. J. Hsieh, Y. P. Hung, and J. C. Huang*, “Transformation into Nano-Grained or Amorphous State in Zr-X Binary Systems by Accumulated Roll Bonding”, Scripta Mater., vol. 49, 2003, pp. 173-178.
 - 79. Y. N. Wang and J. C. Huang*, “Texture Analysis on Hexagonal Materials”, Materials Chemistry and Physics, vol. 81, 2003, pp. 11-26.
 - 80. Y. N. Wang, C. J. Lee, H. K. Lin, C. C. Huang, and J. C. Huang*, “Influence from Extrusion Parameters on High Strain Rate and Low Temperature Superplasticity of AZ Series Mg Base Alloys”, Materials Science Forum, vol. 426-432, 2003, pp. 2655-2660.
 - 81. M. C. Kuo, J. C. Huang*, M. Chen, and M. H. Jen, “Fabrication of High Performance Mg/Carbon-Fiber/PEEK Mg Base Laminated Composites”, Mater. Trans. JIM, vol. 44, 2003, pp. 1613-1619.
 - 82. Y. N. Wang and J. C. Huang*, “Texture Characteristics and Anisotropic Superplasticity of AZ61 Magnesium Alloy”, Mater. Trans. JIM, vol. 44, 2003, pp. 2276-2281.
 - 83. Y. N. Wang and J. C. Huang*, “Transition of Dominant Diffusion Process during Superplastic Deformation in AZ61 Magnesium Alloys”, Metall. Mater. Trans., vol. 35A, 2004, pp. 555-562.
 - 84. C. J. Lee and J. C. Huang*, “Cavitation Characteristics in AZ31 Mg Alloys during LTSP or HSRSP”, Acta Mater., vol. 52, 2004, 3111-3122.
 - 85. C. C. Huang, J. C. Huang*, I. K. Lin, and Y. M. Hwang, “Processing Fine-Grained and Superplastic AZ31 Mg Tubes for Hydroforming”, Key Engineering Materials, vol. 271-274, 2004, pp. 289-294.
 - 86. K. L. Yang, J. C. Huang*, and S. C. Chen, “Anisotropy Superplasticity in Super α_2 Ti₃Al Alloy”, Key Engineering Materials, vol. 271-274, 2004, pp. 295-300.
 - 87. M. C. Kuo and J. C. Huang*, “Flexural and Peel Properties of High Performance Magnesium/Carbon-Fiber/PEEK Laminated Composites”, Key Engineering Materials, vol. 271-274, 2004, pp. 1153-1158.
 - 88. C. I. Chang, C. J. Lee, and J. C. Huang*, “Relationship between Grain Size and Working Strain Rate and Temperature during Friction Stir Processing in AZ31 Mg Alloy”, Scripta Mater., vol. 51, 2004, pp. 509-514.

89. S. H. Wu, J. C. Huang*, and Y. N. Wang, "Evolution of Microstructure and Texture in Mg-Al-Zn Alloys during EB and GTAW Welding", *Metall. Mater. Trans.*, vol. 35A, 2004, pp. 2455-2469.
90. P. J. Hsieh, Y. P. Hung, S. Y. Chiu, and J. C. Huang*, "Nanocrystallization and Amorphization Mechanisms in Zr-X Alloys during Accumulated Roll Bonding", *Mater. Trans. (JIM)*, vol. 45, 2004, pp. 2686-2692.
91. P. J. Hsieh, J. C. Huang*, Y. P. Hung, S. Y. Chiu, and J. S. C. Jang, "TEM Characterization of Nanocrystallization and Amorphization Evolution in Zr-X Alloys during Accumulated Roll Bonding", *Mater. Chem. Phys.*, vol. 88, 2004, pp. 364-376.
92. C. C. Huang, J. C. Huang*, Y. K. Lin, and Y. M. Hwang, "Basal-Texture Induced Low Formability during Room Temperature Hydroforming of Fine-Grained AZ31 Mg Tubes", *Mater. Trans. (JIM)*, vol. 45, 2004, pp. 3142-3149.
93. K. L. Yang, J. C. Huang*, and Y. N. Wang, "Texture Evolution and Anisotropy Superplasticity in Ti₃Al Based Alloy", *Metall. Mater. Trans.*, vol. 35A, 2004, pp. 3803-3815.
94. Y. N. Wang and J. C. Huang*, "SEM Investigation on Superplastic Deformation in Mg-AZ61 Alloy Sheet", *Materials Review Sinaca*, vol. 18, 2004, 230-236.
95. J. S. C. Jang, Y. W. Chen, L. J. Chang, H. Z. Cheng, J. C. Huang, C. Y. Tsau, "Crystallization and Fracture Behavior of the Zr_{65-x}Al_{7.5}Cu_{17.5}Ni₁₀Si_x Bulk Amorphous Alloys", *Mater. Chem. Phys.*, vol. 89, 2005, pp. 122-129.
96. M. C. Kuo, J. C. Huang*, and M. Chen, "PEEK Composites Reinforced by Nano-Sized SiO₂ and Al₂O₃ Particulates", *Mater. Chem. Phys.*, vol. 90, 2005, pp. 185-195.
97. Y. N. Wang and J. C. Huang*, "Superplasticity Enhanced by Two-stage Deformation in a Hot-extruded AZ61 Alloy Magnesium Alloy", *J. Mater. Sci. Technol.*, vol. 21, 2005, pp. 71-74.
98. J. S. C. Jang, L.J. Chang, G.J. Chen, and J.C. Huang, "Crystallization Behavior of the Zr₆₃Al_{7.5}Cu_{17.5}Ni₁₀B₂ Amorphous Alloy during Isothermal Annealing", *Intermetallics*, vol. 13, 2005, pp. 907-911.
99. P. J. Hsieh, J. C. Huang*, J. S. C. Jang, and C. Y. A. Tsao, "Transformation between Nanocrystallines and Amorphous Phases in Zr-X Alloys during Accumulative Roll Bonding", *J. Metastable and Nanocrystalline Mater.*, vol. 24-25, 2005, pp. 351-355.
100. J. S. C. Jang, S. C. Lu, L. J. Chang, T. H. Hung, J. C. Huang, and C. Y. A. Tsao, "Crystallization and Thermal Properties of Zr-Al-Cu-Ni Based Amorphous Alloy Added with Boron and Silicon", *J. Metastable and Nanocrystalline Mater.*, vol. 24-25, 2005, pp. 201-204.
101. H. K. Lin, J. C. Huang*, and T. G. Langdon, "Relationship between Texture and Low Temperature Superplasticity in AZ31 Mg Alloy", *Mater. Sci. Eng. A*, vol. A402, 2005, pp. 250-257.
102. M. L. Ted Guo, Chi Y.A. Tsao, J. C. Huang, and J. S. C. Jang, "Crystallization Behavior of Spray-Formed and Melt-Spun Al₈₉La₆Ni₅ Hybrid Composites with Amorphous and Nanostructured Phases", *Mater. Sci. Eng. A*, vol. A404, 2005, pp. 49-56.
103. C. H. Chuang, J. C. Huang*, and P. J. Hsieh, "Using friction stir processing to fabricate MgAlZn intermetallic alloys", vol. 53, *Scripta Mater.*, 2005, pp. 1455-1460.
104. Y. N. Wang and J. C. Huang*, "Anisotropic Tensile Properties at Room and Elevated Temperatures in Warm-extruded AZ61 Magnesium Alloy", *Mater. Sci. Forum*, vol. 495-497, 2005, pp. 657-662.

105. C. J. Lee, J. C. Huang*, and P. J. Hsieh, "Using Friction Stir Processing to Fabricate AZ61 Mg Composites with Nano Fillers", Key Eng. Mater., vol. 313, 2006, pp. 69-76.
106. Y. P. Hung, K. J. Wu, Chi. Y. A. Tsao, J. C. Huang*, P. J. Hsieh, and J. S. C. Jang, "AZ61 Mg with Nano SiO₂ Particles Prepared by Spray Forming plus Extrusion", Key Eng. Mater., vol. 313, 2006, pp. 77-82.
107. L. R. Chang, J. H. Young, J. S. C. Jang, J. C. Huang, and Chi Y. A. Tsao, "Synthesis of the magnesium-based nano/amorphous-composite alloy powder by the combination method of melt-spinning and mechanical alloying", Key Eng. Mater., vol. 313, 2006, pp. 97-104.
108. P. Y. Lee, C. Lo, J. S. C. Jang, and J. C. Huang, "Mg-Y-Cu Bulk Nanocrystalline Matrix Composites Containing WC Particles", Key Eng. Mater., vol. 313, 2006, pp. 25-30.
109. J. S. C. Jang, Y. W. Chen, L. J. Chang, H. Z. Cheng, J. C. Huang, and A. C. Y. Tsao, Crystallization Kinetics of the Zr₆₁Al_{7.5}Cu_{17.5}Ni₁₀Si₄ Alloy Using Isothermal DSC and TEM Observation" J. Noncrystalline Solids, vol. 352, 2006, pp. 71-77.
110. C. J. Lee, J. C. Huang*, and P. J. Hsieh, "Mg based Nanocomposites Fabricated by Friction Stir Processing", Scripta Mater., vol. 54, 2006, pp. 1415-1420.
111. P. J. Hsieh, Y. C. Lo, J. C. Huang*, and S. P. Chu, "On the Latest Stage of Transformation from Nanocrystalline to Amorphous Phases during ARB: Simulation and Experiment", Intermetallics, vol. 14, 2006, pp. 924-930.
112. J. S. C. Jang, S. C. Lu, L. J. Chang, T. H. Yang, J. C. Huang, and C. T. Liu, "Thermal Stability and Crystallization of Zr-Al-Cu-Ni Based Amorphous Alloy Added with Boron and Silicon", Intermetallics, vol. 14, 2006, pp. 951-956.
113. Y. T. Cheng, T. H. Hung, J. C. Huang*, and J. S. C. Jang, Chi C. Y. Tsao, and P. Y. Lee, "Effects of Partial Replacement of Cu and Y by Boron in Mg-Cu-Y Amorphous Alloys", Intermetallics, vol. 14, 2006, pp. 866-870.
114. P. Y. Lee, M. C. Kao, C. K. Lin, and J. C. Huang, "Mg-Y-Cu Bulk Metallic Glass Prepared by Mechanical Alloying and Vacuum Hot-Pressing", Intermetallics, vol. 14, 2006, pp. 994-999.
115. M. L. Ted Guo, Chi Y. A. Tsao, J. S. C. Jang, and J. C. Huang, "Microstructure Evolution of Spray-Formed Bulk Hybrid Composite and Melt-Spun Ribbon Hybrid Composite Consisting of Amorphous and Nanostructured Phases of Al₈₉Nd₄Ni₅Cu₂", Intermetallics, vol. 14, 2006, pp. 1069-1074.
116. J. S. C. Jang, L. J. Chang, J. H. Young, J. C. Huang, Chi Y.A. Tsao, "Synthesis and Characterization of the Mg-Based Amorphous/ Nano ZrO₂ Composite Alloy", Intermetallics, vol. 14, 2006, pp. 945-950.
117. Y. N. Wang, C. I. Chang, C. J. Lee, H. K. Lin, and J. C. Huang*, "Texture and weak Grain Size Dependence of Yield Stress in Friction Stir Processed Mg-Al-Zn Alloy", vol. 55, Scripta Mater., 2006, pp. 637-640.
118. Y. P. Hung, J.C. Huang*, K. J. Wu, and Chi Y.A. Tsao, "Strengthening and Toughness of AZ61 Mg with Nano SiO₂ Particles", Mater. Trans. (JIM), vol. 47, 2006, pp. 1985-1993.
119. M. C. Kuo, J. C. Huang*, and M. Chen, "Non-isothermal Crystallization Kinetic Behavior of Alumina Nanoparticle Filled Poly(ether ether ketone)", Mater. Chem. Phys, vol. 99/2-3, 2006, pp. 258-268.
120. C. J. Lee and J. C. Huang*, "High Strain Rate Superplasticity in Mg Based Composites Fabricated by Friction Stir Processing", Mater. Trans (JIM), vol. 47, 2006, pp. 2773-2778.
121. C. I. Chang, Y. N. Wang, H. R. Pei, C. J. Lee, and J. C. Huang*, "On the Hardening of Friction Stir Processed Mg-AZ31 Based Composites with 5-20% Nano-ZrO₂ and

- Nano-SiO₂ Particles”, Mater. Trans. (JIM), vol. 47, 2006, pp. 2942-2949.
122. L. J. Chang, J. H. Young, J. S. C. Jang, J. C. Huang, and Chi Y.A. Tsao, “Mechanical Properties of the Mg-Based Amorphous Zincornia Composite Alloy”, Mater. Sci. Forum, vol. 539-543, 2007, pp. 925-930.
 123. T. H. Hung, Y. C. Chang, H. M. Chen, Y. L. Tsai, J. C. Huang*, J. S. C. Jang, and T. G. Nieh, “Thermal and Mechanical Properties of Mg-Cu(Ni)-Gd(Y)-B(Si) Amorphous Alloys”, Mater. Sci. Forum, vol. 539-543, 2007, pp. 1926-1931.
 124. L. J. Chang, B. C. Yang, P. T. Chiang, Jason S.C. Jang, J. C. Huang, “Glass Forming and Thermal Properties of the Mg₆₅Cu₂₅Gd_{10-x}Nd_x (x=0~10) Amorphous Alloys”, Mater. Sci. Forum, vol. 539-543, 2007, pp. 2106-2110.
 125. C. I. Chang, C. J. Lee, C. H. Chuang, H. R. Pei, and J. C. Huang*, “On Mg-Al-Zn Intermetallic Alloys Made by Friction Stir Processing Containing Quasi-Crystals and Amorphous Phases”, Advanced Mater. Research, vol. 15-17, 2007, pp. 387-392.
 126. K. L. Yang and J. C. Huang*, “Deformation Behavior of Dual-Phase LTSP Ti₃Al Based Alloy”, Key Eng. Mater., vol. 340-341, 2007, pp. 71-76.
 127. Y. N. Wang and J. C. Huang*, “The Role of Twinning and Untwinning in Yielding Behavior in Hot-Extruded Mg-Al-Zn Alloy”, Acta Mater., vol. 55, 2007, pp. 897-905.
 128. Xinghao Du, Baolin Wu, and J. C. Huang, “Superplastic Deformation Behavior of a Spray-deposited Eutectic NiAl/Cr(Mo) Alloy Doped with Dy”, Intl J. Mater. Research (formerly Z. Metallkunde), vol. 2007/02 (2007), pp. 123-127.
 129. Y. N. Wang and J. C. Huang*, “Grain Size Dependence of Yield Strength in Randomly Textured Mg-Al-Zn Alloy”, Mater. Trans. (JIM), vol. 48, 2007, pp. 184-188.
 130. T. H. Hung, J. C. Huang*, Jason S. C. Jang, and S.C. Lu, “Improved Thermal Stability of Amorphous ZrAlCuNi alloys with Si and B”, Mater. Trans. (JIM), vol. 48, 2007, pp. 239-243.
 131. Y. T. Cheng, T. H. Hung, J. C. Huang*, P. J. Hsieh, and J. S. C. Jang, “The Thermal Stability and Crystallization Kinetics of Mg-Cu-Y-B Alloys”, Mater. Sci. Eng. A, vol. 449-451, 2007, pp. 501-505.
 132. L. J. Chang, I. H. Wang, J. S. C. Jang, G. J. Chen, T. H. Hung, and J. C. Huang, “Crystallization Kinetics and Thermal Stability of the Zr₆₀Al_{7.5}Cu_{17.5}Ni₁₀Si₄B₁ Alloy by Isothermal DSC and TEM Observation”, Mater. Sci. Eng. A, vol. 449-451, 2007, pp. 511-516.
 133. P. Y. Lee, W. C. Liu, C. K. Lin, and J. C. Huang, “Fabrication of Mg-Y-Cu Bulk Metallic Glass by Mechanical Alloying and Hot Consolidation”, Mater. Sci. Eng. A, vol. 449-451 2007, pp. 1095-1098.
 134. C. J. Lee, J. C. Huang*, and X. H. Du, “Using Multiple FSP Passes to Cure Onion Splitting of Mg Alloys Deformed at Elevated Temperatures”, Mater. Trans. (JIM), vol. 48, 2007, pp. 780-786.
 135. C. J. Lee, J. C. Huang*, and X. H. Du, “Improvement of Yield Stress of Friction-Stirred Mg-Al-Zn Alloys by Subsequent Compression”, Scripta Mater., vol. 56, 2007, pp. 875-878.
 136. L. J. Chang, J. S. C. Jang, B. C. Yang, and J. C. Huang, "Crystallization and Thermal Stability of the Amorphous Mg₆₅Cu_{25-x}Gd₁₀Ag_x (x=0 ~ 10) Alloys", Journal of Alloy and Compounds, vol. 434-435, 2007, pp. 221-224.
 137. X. H. Du and J. C. Huang*, “A Modified Glass Formation Criterion for Various Glass Forming Liquids with Higher Reliability”, Chinese Phys. Lett., vol. 24, 2007, pp.

1335-1338.

138. Y. H. Lai, M. C. Kuo, J. C. Huang*, and M. Chen, “On the PEEK Composites Reinforced by Surface-Modified Nano-Silica”, Mater. Sci. Eng. A, vol. 458, 2007, pp. 158-169.
139. P. J. Hsieh, Y. C. Lo, C. T. Wang, J. C. Huang*, and S. P. Chu, “Cyclic Transformation between Nanocrystalline and Amorphous Phases in Zr Based Intermetallic Alloys during ARB”, Intermetallics, vol. 15, 2007, pp. 644-651.
140. X. H. Du, J. C. Huang*, C. T. Liu, and Z. P. Lu, “New Criterion of Glass Forming Ability for Bulk Metallic Glasses”, J. Appl. Phys., vol. 101, 2007, p. 086108.
141. C. I. Chang, X. H. Du, J. C. Huang*, “Achieving Ultrafine Grain Size in Mg-Al-Zn Alloys by Friction Stir Processing”, Scripta Mater., vol. 57, 2007, pp. 209-212.
142. Y. H. Lai, M. C. Kuo, J. C. Huang*, and M. Chen, “Thermomechanical Properties of Nanosilica Reinforced PEEK Composites”, Key Eng. Mater., vol. 351, 2007, pp. 15-20.
143. C. I. Chang, Y. N. Wang, H. R. Pei, C. J. Lee, X. H. Du, and J. C. Huang*, “Microstructure and Mechanical Properties of Nano-ZrO₂ and Nano-SiO₂ Particulate Reinforced AZ31-Mg Based Composites Fabricated by Friction Stir Processing”, Key Eng. Mater., vol. 351, 2007, pp. 114-119.
144. M. L. T. Guo, Chi Y. A. Tsao, Jacob C. Huang, and Jason S. C. Jang, “Microstructure Characteristics of Spray-Formed and Melt-Spun Al₈₅Nd₅Ni₁₀ and Al₈₉La₆Ni₅ Bulk Hybrid Composites”, Key Eng. Mater., vol. 351, 2007, pp. 1-6.
145. L. J. Chang, G. R. Fang, Jason S. C. Jang, I. S. Lee, Jacob C. Huang, and Chi Y. A. Tsao, “Hot Workability of the Mg₆₅Cu₂₀Y₁₀Ag₅ Amorphous/ NanoZrO₂ Composite Alloy within Supercooled Temperature Region”, Key Eng. Mater., vol. 351, 2007, pp. 103-108.
146. C.-H. Chien, S.-R. Jian, C.-T. Wang, J.-Y. Juang, J. C. Huang, and Y.-S. Lai, “Cross-Sectional Transmission Electron Microscopy Observations on the Berkovich Indentation-Induced Deformation Microstructures in GaN Thin Films,” Journal of Physics D: Applied Physics, vol. 40, 2007, pp. 3985-3990.
147. T. H. Hung, Y. C. Chang, Y. N. Wang, C. W. Tang, H. M. Chen, Y. L. Tsai, J. C. Huang*, J. S. C. Jang, and C. T. Liu, “Development of Mg Based Amorphous Alloys with Higher Amounts of Rare Earth Elements”, Mater. Trans. (JIM), vol. 48, 2007, pp. 1621-1625.
148. H. M. Chen, Y. C. Chang, T. H. Hung, J. C. Huang*, J. S. C. Jang, and P. K. Liaw, “Compression Properties of Mg-Cu-Gd Bulk Metallic Glasses with Various Specimen Height to Diameter Ratios”, vol. 48, Mater. Trans. (JIM), 2007, pp. 1802-1805.
149. L. R. Chang, G. R. Fang, L. S. Lee, J. S. C. Jang, J. C. Huang, and Chi Y. A. Tsao, “Mechanical Properties of the Hot Pressed Mg₆₅Cu₂₀Y₁₀Ag₅/Nano-ZrO₂ Based Amorphous Matrix Composites”, vol. 48, Mater. Trans. (JIM), 2007, pp. 1797-1801.
150. J. S. C. Jang, C. C. Tseng, L. J. Chang, C. F. Chang, W. J. Lee, J. C. Huang and C. T. Liu, “Glass Forming Ability and Thermal Properties of the Mg Based Amorphous Alloys with Dual Rare Earth Elements Addition”, vol. 48, Mater. Trans. (JIM), 2007, pp. 1684-1688.
151. M.-L. Ted Guo, Chi Y.A. Tsao, J. C. Huang, and J. S. C. Jang, “Thermal Stability and Mechanical Properties of Spray-Formed Al₈₉La₆Ni₅ Bulk Hybrid Composites with Amorphous Matrix”, vol. 48, Mater. Trans. (JIM), 2007, pp. 1717-1721.
152. Y. C. Lo, S. P. Ju, J. C. Huang*, and X. H. Du, “Atomic Structural Evolution of Zr-Ni during Accumulative Roll Bonding Using Honeycutt-Anderson (HA) Pair Analysis”, Phys. Rev. B, vol. 76, 2007, p. 024103 (1-6).
153. Y. C. Chang, T. H. Hung, H. M. Chen, J. C. Huang*, T. G. Nieh, and C. J. Lee, “Viscous Flow Behavior and Thermal Properties of Bulk Amorphous Mg₅₈Cu₃₁Y₁₁ Alloy”,

- Intermetallics, vol. 15, 2007, pp. 1303-1308.
154. Du Xinghao, Wu Baolin, C. J. Lee, and J. C. Huang*, “Large Tensile Elongation Behavior of Extruded NiAl/Cr(Mo) Alloy”, *J. of Materials Science*, vol. 42, 2007, pp. 6578-6582.
 155. X. H. Du, J. C. Huang*, and B. L. Wu, “Investigation of Compressive Mechanical Properties of NiAl/Cr(Nb) Alloy Prepared by Rapid Solidification Processing”, *Advanced Engineering Materials*, vol. 9, 2007, pp. 684-688.
 156. X. H. Du, J. C. Huang*, K. C. Hsieh, J. S. C. Jang, and P. K. Liaw, Y. H. Lai, and H. M. Chen, “Two-Glassy-Phase Bulk Metallic Glass with Remarkable Plasticity”, *Appl. Phys. Lett.*, vol. 91, 2007, p. 131901 (1-3).
 157. S.-P. Ju, C.-T. Wang, C.-H. Chien, J. C. Huang, S.-R. Jian, “The Nanoindentation Response of Nickel Surfaces with Different Crystal Orientations”, *Molecular Dynamics*, vol. 33, 2007, pp. 905-917.
 158. C. J. Lee, J. C. Huang*, and T. G. Nieh, “Sample Size Effect on the Mechanical Behavior of Mg₆₅Cu₂₅Gd₁₀ Metallic Glass”, *Appl. Phys. Lett.*, vol. 91, 2007, p. 161913 (1-3).
 159. X. H. Du and J. C. Huang*, “New Criterion in Predicting Glass Forming Ability of Various Glass-Forming Systems”, *Chinese Phys. B*, vol. 17, 2008, pp. 249-254.
 160. J. S. C. Jang, J. Y. Ciou, T. H. Hung, J. C. Huang*, and X. H. Du, “Enhanced Mechanical Performance of Mg Based Metallic Glass with Porous Mo Particles”, *Appl. Phys. Lett.*, vol. 92, 2008, p. 011930 (1-3).
 161. C. T. Pan, T. T. Wu, Y. C. Chang, and J. C. Huang, “Experiment and simulation of hot embossing of a bulk metallic glass with low pressure and temperature”, *J. of Micromechanics and Microengineering*, vol. 18, 2008, p. 025010 (1-12).
 162. C. T. Pan, T. T. Wu, M. F. Chen, Y. C. Chang, C. J. Lee, and J. C. Huang, “Hot Embossing of Micro-Lens Array on Bulk Metallic Glass”, *Sensors and Actuators A: Physical*, vol. 141, 2008, pp. 422-431.
 163. K. F. Chang, M.-L. T. Guo, R. H. Kong, Chi Y.A. Tsao, J. C. Huang, and J. S. C. Jang, “Mg-Cu-Gd Layered Composite Plate Synthesized via Spray Forming Process”, *Mater. Sci. Eng. A*, vol. 477, 2008, pp. 58-62.
 164. Y. H. Lai, C. J. Lee, Y. T. Cheng, H. M. Chen, H. S. Chou, X. H. Du, C. I. Chang, J. C. Huang*, S. R. Jain, J. S. C. Jang, and T. G. Nieh, “Bulk and Microscale Compressive Properties of Zr-Based Metallic Glass”, *Scripta Mater.* vol. 58, 2008, pp. 890-893.
 165. C. I. Chang, X. H. Du, and J. C. Huang*, “Processing Nano-Grained Microstructure in Mg-Al-Zn Alloy by Two-Pass Friction Stir Processing”, *Scripta Mater.*, vol. 59, 2008, pp. 356-359.
 166. Y. C. Chang, J. C. Huang*, Y. T. Cheng, C. J. Lee, X. H. Du, and T. G. Nieh, “Effect of Silver or Boron on Viscosity and Thermomechanical Properties in Mg-Cu-Gd Metallic Glasses”, *J. Appl. Phys.*, vol. 103, 2008, pp. 103521 (1-6).
 167. C. W. Tang, Y. C. Chang, T. T. Wu, J. C. Huang*, and C. T. Pan, “Micro-Forming of Au₄₉Ag_{5.5}Pd_{2.3}Cu_{26.9}Si_{16.3} Metallic Glasses in Supercooled Region”, *Advanced Materials Research*, vol. 47-50, 2008, pp. 266-269.
 168. Y. C. Lo, J. C. Huang*, C. L. Chen, S. P. Ju, H. S. Chou, X. H. Du, M. C. Liu, and C. N. Kuo, “Atomic Simulation Study of Vitrification Transition in Mg-Cu Thin Film”, *J. Computational and Theoretical Nanoscience*, vol. 5, 2007, pp. 1-5.
 169. M. R. Jen, Y. C. Tseng, H. K. Kung, and J. C. Huang, “Fatigue Response of APC-2 Composite laminates at Elevated Temperatures”, *Composite, Part B*, vol. 39, 2008, pp. 1142-1146.

170. T. M. Hu, C. M. Kai, X. H. Du, N. J. Ho, and J. C. Huang, "Enhanced Tensile Plasticity in Ultrafine Grained Metallic Composite Fabricated by Friction Stir Process", *Scripta Mater.*, vol. 59, 2008, pp. 1163-1166.
171. L. L. Chang, Y. N. Wang, X. Zhao and J. C. Huang, "Microstructure and Mechanical Properties in an AZ31 Magnesium Alloy Sheet Fabricated by Asymmetric Hot Extrusion", *Mater. Sci. Eng. A*, vol. 496, 2008, pp. 512-516.
172. Y. C. Chang, J. C. Huang*, C. W. Tang, C. I. Chang, and T. G. Nieh, "Viscous Flow Behavior and Workability of Mg-Cu-(Ag)-Gd Based Bulk Metallic Glasses", *Mater. Trans (JIM)*, vol. 49, 2008, pp. 2605-2610.
173. Y. C. Lo, J. C. Huang*, and S. P. Ju, "Atomic Structure Evolution of Zr-Ti and Pure Zr during Accumulated Roll Bonding by HA Pair Analysis", *Mater. Chem. Phys.*, vol. 112, 2008, pp. 466-471.
174. H. S. Chou, J. C. Huang*, L. W. Chang, and T. G. Nieh, "Structural Relaxation and Nanoindentation Response in Zr-Cu-Ti Amorphous Thin Films", *Appl. Phys. Lett.*, vol. 93, 2008, p. 191901 (1-3).
175. J. S. C. Jang, C. C. Tseng, Y. C. Yeh, J. L. Jou, and J. C. Huang, "Thermoplastic Forming Properties and Microreplication Ability of an Mg-Based Bulk Metallic Glass", *Adv. Eng. Mater.*, vol. 10, 2008, pp. 1048-1052.
176. Y. C. Chang, T. T. Wu, M. F. Chen, C. J. Lee, J. C. Huang*, and C. T. Pan, "Finite Element Simulation of Micro-Imprinting in Mg-Cu-Y Amorphous Alloy", *Mater. Sci. Eng. A*, vol. 499, 2009, pp. 153-156.
177. J. S. C. Jang, S. F. Tsao, L. J. Chang, J. C. Huang, and C. T. Liu, "Nano-Crystallization Behavior of $Zr_{61}Al_{7.5}Cu_{17.5}Ni_{10}Si_4$ Amorphous Alloy", *Intermetallics*, vol. 17, 2009, pp. 56-64.
178. S. X. Song, Y. H. Lai, J. C. Huang, and T. G. Nieh, "Homogeneous Deformation of Au-Based Metallic Glass Micro-Pillars in Compression at Elevated Temperatures", *Appl. Phys. Lett.*, vol. 94, 2009, pp. 061911 (1-3).
179. C. T. Pan, M. F. Chen, P. J. Cheng, Y. M. Hwang, S. D. Tseng, and J. C. Huang, "Fabrication of Gapless Dual-curvature Micro-Lens as Diffuser for LED Package", *Sensors and Actuators A-Physical*, vol. A 150, 2009, pp. 156-167.
180. C. M. Hu, C. M. Lai, P. W. Kao, N. J. Ho, and J. C. Huang, "Solute-Enhanced Tensile Ductility of Ultrafine Grained Al-Zn alloy Fabricated by Friction Stir Processing", *vol. 60, Scripta Mater.* 2009, pp. 639-642.
181. J. S. C. Jang, C. F. Chang, Y. C. Huang, J. C. Huang, W. J. Chiang, and C. T. Liu, "Viscous Flow and Microforming of a Zr-Base Bulk Metallic Glass", *Intermetallics*, vol. 17, 2009, pp. 200-204.
182. H. M. Chen, X. H. Du, J. C. Huang*, J. S. C. Jang, and T. G. Nieh, "Compression Straining to Various Stages of Zr-Based Bulk Metallic Glasses", *Intermetallics*, vol. 17, 2009, pp. 330-335.
183. H. M. Chen, S. X. Song, J. C. Huang*, H. S. Chou, J. S. C. Jang, and T. G. Nieh, "Flow Serration and Shear Band Propagation in Bulk Metallic Glasses", *Appl. Phys. Lett.*, vol. 94, 2009, pp. 141914 (1-3).
184. X. H. Du, J. C. Huang*, H. M. Chen, H. S. Chou, Y. H. Lai, K. C. Hsieh, J. S. C. Jang, and P. K. Liaw, "Phase Separated Microstructure and Shear Banding Behavior in a Designed Zr Based Glass-Forming Alloy", *Intermetallics*, vol. 17, 2009, pp. 607-613.
185. Jason S. C. Jang, C. F. Chang, L. J. Chang, Y. C. Huang, T. H. Li, J. C. Huang, and C. T.

- Liu, "Thermal and Mechanical Properties of the Zr₅₃Cu₃₀Ni₉Al₈ Based Bulk Metallic Glass Microalloyed with Silicon", *J. Alloys Compounds*, vol. 478, 2009, pp. 215-219.
186. X. H. Du, J. C. Huang*, K. C. Hsieh, J. S. C. Jang, and P. K. Liaw, "Designing Ductile Zr Based Bulk Metallic Glasses with Phase Separated Microstructure", *Adv. Eng. Mater.*, vol. 11, 2009, pp. 387- 391.
187. T. W. Tang, Y. C. Chang, J. C. Huang*, Q. Gao, J. S. C. Jang, and Chi Y. A. Tsao, "On Thermomechanical Properties of Au-Ag-Pd-Cu-Si Bulk Metallic Glass", *Mater. Chem. Phys.*, vol. 116, 2009, pp. 569-572.
188. C. T. Pan, T. T. Wu, Y. T. Liu, Y. Yamagata, and J. C. Huang, "Fabrication of Aspheric Surface using Ultraprecision Cutting and BMG Molding", *J. of Mater. Processing Tech.*, vol. 209, 2009, pp. 5014-5023.
189. M. C. Liu, J. C. Huang*, H. S. Chou, Y. H. Lai, C. J. Lee, and T. G. Nieh, "A nanoscaled underlayer confinement approach for achieving extraordinarily plastic amorphous thin filmy", *Scripta Mater.*, vol. 61, 2009, pp. 840-843.
190. F. H. Chen, K. F. Chang, Chi Y. A. Tsao, M. L. T. Guo, J. C. Huang, and J. S. C. Jang, "Microstructures and Mechanical Behaviors of Mg₅₈Cu₃₁Gd₁₁ and Mg₆₅Cu₂₅Gd₁₀ Amorphous Alloys Synthesized by Drop Casting and Melt Spinning", *J. Alloys Compounds*, vol. 483, 2009, pp. 32-36.
191. C. J. Chen, J. C. Huang*, Y. H. Lai, H. S. Chou, L. W. Chang, X. H. Du, J. P. Chu, and T. G. Nieh, "On the Amorphous and Nanocrystalline Zr-Cu and Zr-Ti Sputtered Thin Films", *J. Alloys Compounds*, vol. 483, 2009, pp. 337-340.
192. H. S. Chou, J. C. Huang*, Y. H. Lai, L. W. Chang, X. H. Du, J. P. Chu, and T. G. Nieh, "Amorphous and Nanocrystalline Sputtered Mg-Cu Thin Films", *J. Alloys Compounds*, vol. 483, 2009, pp. 341-345.
193. J. C. Huang*, J. P. Chu, and J. S. C. Jang, "Recent Progress on Metallic Glasses in Taiwan", vol. 17, *Intermetallics*, 2009, pp. 973-987.
194. Jason S.-C. Jang, S.-R. Jian, T.-H. Li, J. C. Huang, Chi Y.-A. Tsao, C.-T. Liu, "Structural and Mechanical Characterizations of Ductile Fe Particles-Reinforced Mg-Based Bulk Metallic Glass Composites", *J. Alloys Compounds*, vol. 485, 2009, pp. 290-294.
195. S. C. Shen, C. T. Pan, K. H. Liu, C. H. Chao and J. C. Huang, "Fabrication of an Eyeball-Like Spherical Micro-Lens Array Using Extrusion for Optical Fiber Coupling," *Journal of Micromechanics and Microengineering*, vol. 19, 2009, p. 125017 (1-9).
196. C. J. Lee, Y. H. Lai, C. W. Tang, J. C. Huang*, and J. S. C. Jang, "Mechanical Behavior of Au-Based Metallic Glass in Micro-Scale at Ambient and Elevated Temperatures", *Mater. Trans. JIM*, vol. 50, 2009, pp. 2795-2800.
197. K. D. Wang, L. L. Chang, Y. N. Wang, and J. C. Huang, "Preparation of Mg-AZ31 based composites with Ti particles by friction stir processing" *The Chinese J. Nonferrous Metals*, vol. 19, 2009, pp. 418-423.
198. Z. W. Hsiao, C. C. Fu, P. H. Tsai, J. S. C. Jang, S. R. Jian, and J. C. Huang, "Effect of Nano-Crystallization on the Mechanical properties of the (Zr₅₃Cu₃₀Ni₉Al₈)99.5Si0.5 Bulk Metallic Glass", *Materials Science Forum*, vols. 638-642, 2010, pp 2933-2937.
199. P. H. Tsai, I. S. Huang, T. H. Li, J. S. C. Jang, J. C. Huang, and K. C. Hsieh, "Crystallization Behavior and Thermal Stability of Two-Glassy Phase Zr-Based Bulk Metallic Glasses", *Advanced Materials Research*, vols. 89-91, 2010, pp 562-567.
200. C. L. Wang, Y. H. Lai, J. C. Huang, and T. G. Nieh, "Creep of Nanocrystalline Nickel: a Direct Comparison between Uniaxial and Nanoindention Creep", *Scripta Mater.*, vol. 62,

- 2010, pp. 175-178.
201. C. T. Pan, T. T. Wu, C. F. Liu, C. Y. Su, W. J. Wang, and J. C. Huang, "Study of Scratching Mg-Based BMG Using Nanoindenter with Berkovich Probe", *Mater. Sci. and Eng. A*, vol. 527, 2010, pp. 2342–2349.
 202. C. T. Pan, T. T. Wu, J. K. Tseng, C. Y. Su, W. J. Wang, and J. C. Huang, "Mechanical Behavior of Metallic Glasses Mg–Cu–Y Using Nanoindentation", *Microsyst Tech.*, vol. 16, 2010, pp. 585–593.
 203. J. S. C. Jang, J. Y. Ciou, T. H. Li, J. C. Huang, and T. G. Nieh, "Dispersion Toughening of Mg-based Bulk Metallic Glass Reinforced with Porous Mo Particles", *Intermetallics*, vol. 18, 2010, pp. 451-458.
 204. J. S. C. Jang, D. J. Pan, S. R. Jian, Y. H. Wu, J. C. Huang, and T. G. Nieh, "Thermal and Mechanical Characterizations of Zr-Based Bulk Metallic Glass Composite Toughened by In-situ Precipitated Ta-Rich Particles", *Intermetallics*, vol. 18, 2010, pp. 560-564.
 205. S. X. Song, J. S. C. Jang, J. C. Huang, and T. G. Nieh, "Inhomogeneous to Homogeneous Transition in an Au-Based Metallic Glass and Its Deformation Maps", *Intermetallics*, vol. 18, 2010, pp. 702-709.
 206. J. P. Chu, J. C. Huang, J. S. C. Jang, Y. C. Wang, and P. K. Liaw, "Thin Film Metallic Glasses: Preparations, Properties, and Applications", *J. of Metals*, vol. 62, no. 4, 2010, pp. 19-24.
 207. Y. C. Lo, H. S. Chou, Y. T. Cheng, J. C. Huang*, J. R. Morris, and P. K. Liaw, "Molecular Dynamics Simulations of Fatigue Damage in Binary Zr-Cu Metallic Glass", *Intermetallics*, vol. 18, 2010, pp. 954-960.
 208. C. J. Lee, Y. H. Lai, J.C. Huang*, X. H. Du, L. Wang, T. G. Nieh, "Strength Variation and Cast Defect Distribution in Metallic Glasses", *Scripta Mater.*, vol. 63, 2010, pp. 105-108.
 209. H. M. Chen, C. J. Lee, J. C. Huang*, T. H. Li, and J. S. C. Jang, "Flow Serration and Shear-Band Propagation in the Porous Mo Particles Reinforced Mg-Based Bulk Metallic Glass Composites", *Intermetallics*, vol. 18, 2010, pp. 1240-1243.
 210. C. N. Kuo, H. M. Chen, X. H. Du, and J. C. Huang*, "Flow serrations and fracture morphologies of Cu-based bulk metallic glasses in energy release perspective", *Intermetallics*, vol. 18, 2010, pp. 1648-1652.
 211. M. C. Kuo, C. S. Kuo, M. H. Yang, and J. C. Huang, "On the Crystallization Behavior of Nano-Silica Filled PEEK Composites", *Mater. Chem. Phys.*, vol. 123, 2010, pp. 471-480.
 212. Ching-Jen Lee, Hsuan-Kai Lin, Shuo-Yang Sun, and J. C. Huang, "Characteristic difference between ITO/ZrCu and ITO/Ag bi-layer films as transparent electrodes deposited on PET substrate", *Appl. Surf. Sci.*, vol. 257, 2010, pp. 239-243.
 213. Y. H. Lai, H. M. Chen, C. J. Lee, J. C. Huang*, and J. S. C. Jang, "Strain Burst Speeds in Metallic Glass Micropillars", *Intermetallics*, vol. 18, 2010, pp. 1893-1897.
 214. J. S. C. Jang, W. J. Li, T. H. Li, S. R. Jian, J. C. Huang, and T. G. Nieh, "Thermal Plastic Forming Ability of Mg-Base Bulk Metallic Glass Composites Reinforced with Porous Mo Particles", *Intermetallics*, vol. 18, 2010, pp. 1964-1968.
 215. J. S. C. Jang, Y. S. Chang, T. H. Li, P. J. Hsieh, J. C. Huang, and Chi. Y. A. Tsao, "Plasticity Enhancement of Mg₅₈Cu_{28.5}Gd₁₁Ag_{2.5} Based Bulk Metallic Glass Composites Dispersion Strengthened by Ti Particles", *J. Alloys Comp.*, vol. 504S, 2010, pp. S102-S105.
 216. H. S. Chou, J. C. Huang*, and L. W. Chang, "Mechanical Properties of Zr-Cu-Ti Thin Film Metallic Glass with High Solubility of Immiscible Tantalum and Nanolaminate

- Composites”, Surface and Coating Technology, vol. 205, 2010, pp. 587-590.
217. M. C. Liu, C. J. Lee, Y. H. Lai, and J. C. Huang*, “Microscale Deformation Behavior of Amorphous/ Nanocrystalline Multilayered Thin Film Pillars”, Thin Solid Films, vol. 518, 2010, pp. 7295-7299.
 218. S. Y. Kuan, H. S. Chou, M. C. Liu, I. C. Lin, X. H. Du, and J. C. Huang*, “Micromechanical Response in Amorphous/Amorphous Nanolaminates”, Intermetallics, vol. 18, 2010, pp. 2453-2457.
 219. T. M. Hu, C. M. Kai, N. J. Ho, P. W. Kao, and J. C. Huang, “Quantitative Measurements of Small Scaled Grain Sliding in Ultra-Fine Grained Al-Zn Alloys Produced by Friction Stir Processing”, Mater. Characterization, vol. 61, 2010, pp. 1043-1053.
 220. T. H. Sung, J. C. Huang* and J. H. Hsu, and S. R. Jain, “Mechanical Response of GaN Film and Micropillar under Nanoindentation and Microcompression”, Appl. Phys. Lett., vol. 97, 2010, p. 171904 (1-3).
 221. S.-R. Jian, J.-Y. Juang, N.-C. Chen, Jason S.-C. Jang, J. C. Huang, and Y.-S. Lai, “Nanoindentation-Induced Structural Deformation in GaN/AlN Multilayers”, Nanoscience and Nanotechnology Lett., vol. 2, No. 4, 2011, pp. 315-321.
 222. S. Y. Sun, C. J. Lee, H. S. Chou, and J. C. Huang*, “Effects of Ag Addition on Phase Transformation and Resistivity of TiSi₂ Thin Films”, Appl. Surface Sci., vol. 257, 2011, pp. 2550-2554.
 223. J. S. C. Jang, T. H. Li, S. R. Jian, J. C. Huang, and T. G. Nieh, “Effects of Characteristics of Mo dispersions on the Plasticity of Mg-Based Bulk Metallic Glass Composites”, Intermetallics, vol. 19, 2011, pp. 738-743.
 224. H. S. Chou, X. H. Du, C. J. Lee, and J. C. Huang*, “Enhanced mechanical properties of multilayered micropillars of amorphous ZrCuTi and nanocrystalline Ta layers”, Intermetallics, vol. 19, 2011, pp. 1047-1051.
 225. Chau-Chang Chou, Shing-Hoa Wang, Hsien-Hung Chung, Peter K. Liaw, Yung Liou, J. C. Huang, and Yuan-Yi Hsu, “Wear behavior of Er-bearing Cu-based amorphous/crystal BMG composite under oil lubrication”, Intermetallics, vol. 19, 2011, pp. 1216-1221.
 226. Jason S. C. Jang, K. C. Wu, S. R. Jian, P. J. Hsieh, J. C. Huang, and C. T. Liu, “A Ni-free Zr-Based Bulk Metallic Glass with Remarkable Plasticity”, J. Alloy Comp., vol. 509S, 2011, pp. S109-S114.
 227. H. J. Pei, C. J. Lee, X. H. Du, Y. C. Chang, and J. C. Huang*, “Tension behavior of metallic glass coating on Cu foil”, Mater. Sci. Eng. A, A528, 2011, pp. 7317-7322.
 228. C. J. Lee, H. K. Lin, J. C. Huang, and S. Y. Kuan, “Tension behavior of free-standing amorphous films and amorphous-crystalline nanolaminates in submicron scale”, Scripta Mater., vol. 65, 2011, pp. 695-698.
 229. J. B. Li, J. S. C. Jang, S. R. Jian, K. W. Chen, J. F. Lin, and J. C. Huang, “Plasticity Enhancement of ZrCu-Based Bulk Metallic Glass by ex-situ Dispersed Ta Particles”, Mater. Sci. Eng. A, vol. 528, 2011, pp. 8244-8248.
 230. S. Y. Kuan, X. H. Du, H. S. Chou, and J. C. Huang*, “Mechanical response of amorphous ZrCuTi/PdCuSi nanolaminates under nanoindentation”, Surface and Coating Technology, vol. 206, 2011, pp. 1116-1119.
 231. C. F. Liu, C. T. Pan, K. H. Liu, Y. C. Chen, J. L. Chen, and J. C. Huang, “Optical film for LED with triangular pyramidal array using size reducible embossing method”, J. Mater. Eng. Performance, vol. 20, 2011, pp. 1544-1553.
 232. H. S. Chou, M. C. Liu, S. Y. Kuan, and J. C. Huang*, “Mechanical behavior of Zr-based

- and Ta-based micropillars”, *Intermetallics*, vol. 21, 2012, pp. 26-30.
233. H. K. Lin, C. J. Lee, T. T. Hu, C. H. Li, and J. C. Huang, “Pulsed laser micromachining of Mg-Cu-Gd bulk metallic glass”, *Optics and Laser Eng.*, vol. 50, 2012, pp. 883-886.
 234. M. C. Liu, J. C. Huang*, K. W. Chen, J. F. Lin, W. D. Li, Y. F. Gao, and T. G. Nieh, “Is the compression of tapered micro and nanopillar samples a legitimate technique for the identification of deformation mode change in metallic glasses ?”, *Scripta Mater.*, vol. 66, 2012, pp. 817-820.
 235. Jinn P. Chu, J. E. Greene, Jason S. C. Jang, J. C. Huang, Yu-Lin Shen, Peter K. Liaw, Yoshihiko Yokoyama, Akihisa Inoue, and T. G. Nieh, “Bendable Bulk Metallic Glass: Effects of a Thin, Adhesive, Strong, and Ductile Coating”, *Acta Mater.*, vol. 60, 2012, pp. 3226-3238.
 236. J. H. Wu, M. S. Yen, C. W. Chen, M. C. Kuo, F. K. Tsai, J. S. Kuo, L. H. Yang, and J. C. Huang, “Isothermal Crystallization Behavior of Nano-Alumina Particles Filled Poly(ether ether ketone) Composites”, *J. Appl. Polymer Sci.*, vol. 125, 2012, pp. 494-504.
 237. L. Wang, M. C. Liu, J. C. Huang, Y. Li, W. H. Wang, and T. G. Nieh, “Effect of temperature on the yield strength of a binary CuZr metallic glass: stress-induced glass transition”, *Intermetallics*, vol. 26, 2012, pp. 162-165.
 238. T. H. Sung, J. C. Huang*, J. H. Hsu, S. R. Jian, and T. G. Nieh, “Yileding and plastic slip in ZnO”, vol. 100, *Appl. Phys. Lett.*, 2012, pp. 211903 (1-4).
 239. J. P. Chu, J. S. C. Jang, J. C. Huang, H. S. Chou, Y. Yang, J. C. Ye, Y. C. Wang, J. W. Lee, F. X. Liu, P. K. Liaw, Y. C. Chen, C. M. Lee, C. L. Li, and C. Rullyani, “Thin film metallic glasses: unique properties and potential applications”, *Thin Solid Films*, vol. 520, 2012, pp. 5097-5122.
 240. H. S. Chou, X. H. Du, J. C. Huang*, and T. G. Nieh, “Time-dependent mechanical properties of ZrCuTiTa thin films under nanoindentation”, *Intermetallics*, vol. 27, 2012, pp. 26-30.
 241. J. B. Li, J. S. C. Jang, C. Li, S.R. Jian, P. H. Tsai, J. D. Hwang, J. C. Huang, and T. G. Nieh, “Significant Plasticity Enhancement of ZrCu-Based Bulk Metallic Glass by in-situ and ex-situ Dispersed Ta Particles”, *Mater. Sci. Eng. A*, vol. 551, 2012, pp. 249-254.
 242. T. T. Hu, J. H. Hsu, J. C. Haung*, S. Y. Kuan, C. J. Lee, and T. G. Nieh, “Correlation between reflection and resistivity in multi-component metallic systems”, *Appl. Phys. Lett.*, vol. 101, 2012, p. 011902 (1-4).
 243. S. P. Ju, M. H. Weng, H. J. Chiang, Y. C. Lo, and J. C. Huang, “Relationship between Indentation depth and Influence depth of Single and Bi-crystal surfaces under Nano-indentation”, *Adv. Sci. Lett.*, vol. 11, No 1, 2012, pp. 32-38.
 244. J. S. C. Jang, S. L. Lee, Y. S. Chang, J. C. Huang, and T. G. Nieh, “Prominent Plasticity of Mg-Based Bulk Metallic Glass Composites by ex-situ Spherical Ti Particles”, *Intermetallics*, vol. 30, 2012, pp. 25-29.
 245. M. C. Liu, X. H. Du, I. C. Lin, H. J. Pei, and J. C. Huang*, “Superplastic-Like Deformation in Metallic Amorphous/Crystalline Nanolayered Micropillars”, *Intermetallics*, vol. 30, 2012, pp. 30-34.
 246. Chuan Li, J. S. C. Jang, J. B. Li, D. J. Pan, S. R. Jian, J. C. Huang, and T. G. Nieh, “Numerical Studies on the Shear Band Intervention in Zirconium Based bulk Metallic Glass Composites Zr₅₃Cu₂₂Ni₉Al₈Ta₈”, *Intermetallics*, vol. 30, 2012, pp. 111-116.
 247. C. H. Lin, C. H. Huang, X. H. Du, J. F. Chuang, H. C. Lee, M. C. Liu, J. C. Huang*, J. S. C. Jang, C. H. Chen, “Simulation body-fluid tests and electrochemical investigations into

- the biocompatibility of metallic glassy materials”, Mater. Sci. Eng. C, vol. 32, 2012, pp. 2578-2582.
248. J. B. Li, H. Z. Zhang, J. S. C. Jang, S. R. Jian, C. Li, J. C. Huang, and T. G. Nieh, “Viscous Flow and Thermoplastic Forming Ability of a Zr-based Bulk Metallic Glass Composite with Ta Dispersoids”, J. Alloys Comp., vol. 536S, 2012, pp. S165-S170.
 249. P. H. Tsai, Y. Z. Lin, J. B. Li, S. R. Jian, J. S. C. Jang, C. Li, J. P. Chu, and J. C. Huang, “Sharpness improvement of surgical blade by means of ZrCuAlAgSi metallic glass and metallic glass thin film coating”, Intermetallics, vol. 31, 2012, pp. 127-131.
 250. H. J. Pei, S. Y. Kuan, M. C. Liu, and J. C. Huang*, “Tensile behavior of amorphous/nanocrystalline ZrCu/Cu multilayered films with graded interfaces”, Intermetallics, vol. 31, 2012, pp. 191-195.
 251. Sheng-Rui Jian, T.-H. Sung, J. C. Huang, and Jenh-Yih Juang, “Deformation behavior of InP micropillars under uniaxial compression, Appl. Phys. Lett., vol. 101, 2012, p. 151905 (1-4).
 252. S. Lee, H. C. Lan, J. Lee, J. Y. Wang, J. C. Huang, and C. L. Chu, “Gas Forming a V-Shape Aluminum Sheet into Trough of Saddle-Contour”, J. Mater. Eng. Performance, vol. 21, 2012, pp. 2290-2294.
 253. C. J. Lee, H. K. Lin, C. H. Li, L. X. Chen, C. C. Lee, C. W. Wu, and J. C. Huang, “A study on electric properties for pulse laser annealing of ITO film after wet etching”, Thin Solid Films, vol. 522, 2012, pp. 330-335.
 254. C. N. Kuo, J. C. Huang*, X. H. Du, Y. C. Chen, X. J. Liu, and T. G. Nieh, “Effects of V on phase formation and plasticity improvement in Cu-Zr-Al glassy alloy”, Mater. Sci. Eng. A, vol. 561, 2013, pp. 245-251.
 255. D. Wu, Junyan Zhang, J.C. Huang, H.B. Bei, and T.G. Nieh, “Grain-boundary strengthening in nanocrystalline chromium and the Hall-Petch coefficient of bcc metals”, Scripta Mater., vol. 68, 2013, pp. 118-121.
 256. H. S. Huang, H. J. Pei, Y. C. Chang, C. J. Lee, and J. C. Huang*, “Tensile behaviors of amorphous/nanocrystalline multilayer thin films on polyimide substrates”, Thin Solid Films, vol. 529, 2013, pp. 177-180.
 257. M. C. Liu, Y. T. Feng, J. C. Huang*, J. P. Ju, H. J. Pei, X. H. Du, and T. G. Nieh, “Interface energy and its influence on mechanical behavior of inclined ZrCu/Zr micropillars”, Acta Mater., vol. 61, 2013, pp. 3304-3313.
 258. C. J. Lee, C. H. Hsieh, H. S. Huang, and J. C. Huang, “Improved mechanical properties of sputtered and evaporated Zn films deposited on a flexible substrate with an adhesive layer of amorphous ZrCu film”, Scripta Mater., vol. 69, 2013, pp. 5-8.
 259. Y. H. Chen, J. C. Huang, L. Wang, and T. G. Nieh, “Effect of residual stresses on nanoindentation creep behavior of Zr-based bulk metallic glasses”, Intermetallics, vol. 41, 2013, pp. 58-62.
 260. J. B. Li, H. C. Lin, J. S. C. Jang, C. N. Kuo, and J. C. Huang, “Novel open-cell bulk metallic glass foams with promising characteristics”, Mater. Lett., vol. 105, 2013, 140-143.
 261. T. H. Sung, J. C. Huang*, and C. H. Chen, “Mechanical response of polar/non-polar ZnO under low dimensional stress”, Appl. Phys. Lett., vol. 102, 2013, p. 241901.
 262. C. H. Huang, J. C. Huang*, J. B. Li, and J. S. C. Jang, “Simulated body fluid electrochemical response of Zr-based metallic glasses with different degrees of crystallization”, Mater. Sci. Eng. C, vol. C33, 2013, pp. 4183-4187.

263. S. Y. Kuan, H. S. Chou, and J. C. Huang*, "Mechanical behavior of MgCuZr thin film metallic glasses", *Surface and Coating Technology*, vol. 231, 2013, pp. 58-61.
264. C. H. Lin, C. H. Huang, J. F. Chuang, J. C. Huang*, J. S. C. Jang, and C. H. Chen, "Rapid Screening of Potential Metallic Glasses for Biomaterial Applications", *Mater. Sci. Eng. C*, vol. 33, 2013, pp. 4520-4526.
265. W. H. Wang, J. H. Hsu, and J. C. Huang, "Optical reflection improvement by upgrading metallic glass quality", *Appl. Phys. Lett.*, vol. 103, 2013, pp. 161906 (1-4).
266. H. K. Lin, S. M. Chiu, T. P. Cho, and J. C. Huang*, "Improved bending fatigue behavior of PET/ITO film with metallic glass interlayer", *Mater. Lett.*, vol. 113, 2013, pp. 182-185.
267. X. H. Du*, Y. C. Chang, H. J. Pei, B. Y. Chen, M. C. Kuo, and J. C. Huang*, "Coating behavior and surface hardening of $Pd_{77}Cu_6Si_{17}$ thin film metallic glass on AZ31 magnesium alloy", *J. Zhejiang University Science A* (Springer), vol. 14, 2013, pp. 898-905.
268. P.H. Tsai, A.C. Xiao, J.B. Li, J.S.C. Jang, J.P. Chu, and J.C. Huang, "Prominent Fe-based bulk amorphous steel alloy with large supercooled liquid region and superior corrosion resistance", *J. Alloys Comp.*, vol. 586, 2014, pp. 94-98.
269. C. N. Kuo, J. C. Huang*, X. H. Du, X. J. Liu, and T. G. Nieh, "Comparison of mechanical response in CuZrAl-V and CuZrAl-Co bulk metallic glass composites", *J. Alloys. Comp.*, vol. 586, 2014, pp. S14-S19.
270. Y. Y. Chu, Y. S. Lin, C. M. Chang, J.-K. Liu, C. H. Chen, and J. C. Huang, "Superior anti-microbial effect of thin film metallic glass", *Mater. Sci. Eng. C*, vol. C36, 2014, pp. 221-225.
271. C. N. Kuo, J. C. Huang*, J. B. Li, J. S. C. Jang, and T. G. Nieh, "Effects of B2 precipitate size on transformation-induced plasticity of Cu-Zr-Al Glassy Alloy", *J. Alloys Comp.*, vol. 590, 2014, pp. 453-458.
272. Z. H. Liu, C. T. Pan, L. W. Lin, J. C. Huang, and Z. Y. Ou, "Direct-write PVDF nonwoven fiber fabrics energy harvesters via the hollow cylindrical near-field electrospinning process", *Smart Mater. Structure*, vol. 23, 2014, pp. 025003 (1-11).
273. Shin-Pon Ju, Hsin-Hong Huang, and J. C. Huang, "Predicted atomic arrangement of $Mg_{67}Zn_{28}Ca_5$ and $Ca_{50}Zn_{30}Mg_{20}$ bulk metallic glasses by atomic simulation", *J. Non-Crystalline Solids*, vol. 388, 2014, pp. 23-31.
274. C. T. Pan, C. K. Yen, L. W Lin, Y. S. Lu, H. W. Li, J. C. Huang, and S. W. Kuo, "Energy harvesting with piezoelectric poly(γ -benzyl-L-glutamate) fibers prepared through cylindrical near-field electrospinning", *RSC Advances*, vol. 4, 2014, pp. 21563-21570.
275. S. Y. Kuan and J. C. Huang*, "Improving ductility of Mg-based thin film metallic glasses via nano-twinning", *Thin Solid Films*, vol. 561, 2014, pp. 43-47.
276. C. T. Pan, Y. C. Chen, P. H. Lin, C. C. Hsieh, F. T. Hsu, C. M. Chang, J. H. Hsu, and J. C. Huang, "Lens of controllable optical field with thin film metallic glasses for UV-LEDs", *Optics Express*, vol. 22, 2014, pp. 14411-14424.
277. H. C. Lin, P. H. Tsai, J. H. Ke, J. B. Li, Jason S. C. Jang*, C. H. Huang, J. C. Haung*, "Designing a toxic-element-free Ti-based amorphous alloy with remarkable supercooled liquid region for biomedical application", *Intermetallics*, vol. 55, 2014, pp. 22-27.
278. C. H. Huang , Y. S. Huang , Y. S. Lin , C. H. Lin* , J. C. Huang* , C. H. Chen , J. S. C. Jang , "Electrochemical properties and biocompatibility of newly developed TiZr-based metallic glasses", *Mater. Sci. Eng. C*, vol. 43, 2014, pp. 343-349.

279. Y. S. Chang, K. T. Hsu, J. B. Li, P. H. Tsai, J. S. C. Jang, and J. C. Huang, "Effect of cast process and microalloying on the fracture toughness of Zr based bulk amorphous alloys", *J. Alloys Comp.*, vol. 624, 2014, pp. 87-93.
280. C. M. Chang, C. H. Wang, J. H. Hsu, and J. C. Huang, "Al-Ni-Y metallic glass composite thin films for broad-band uniform reflectivity", submitted to *Thin Solids Films*, 2014.
281. J. L. Ke , C. H. Huang, Y. H. Chen, W. Y. Tsai, T. Y. Wei, J. C. Huang, "In vitro biocompatibility response of Ti-Zr-Si thin film metallic glasses", conditionally accepted by *Appl. Surf. Sci.*, 2014.
282. Y. T. Lin, Y. L. Chung, Z. K. Wang, and J. C. Huang, "AgMgAl thin film metallic glasses for electric contact applications", conditionally accepted by *Intermetallics*, 2014.
283. C.H. Huang, J.J. Lai, T.Y.Wei, Y.H. Chena, X.Wang, S.Y. Kuan, J.C. Huang, " Improvement of bio-corrosion resistance for Ti42Zr40Si15Ta3 metallic glasses in simulated body fluid by annealing within supercooled liquid region", *Mater. Sci. Eng., C*, vol. 52, 2015, pp. 144-150.
284. W.Y. Tsai, J.C. Huang, Yu Jia Gao, Y.L. Chung and Guan-Rong Huang, "Relationship between microstructure and properties for ultrasonic surface mechanical attrition treatment", *Scripta Mater.* , vol. 103, 2015, pp. 45-48.
285. Cheng-Tang Pan, Chung-Kun Yen, Hui-Chun Wu, Liwei Lin, Yi-Syuan Lu, Jacob Chih-Ching Huang and Shiao-Wei Kuo, "Significant piezoelectric and energy harvesting enhancement of poly(vinylidene fluoride)/polypeptide fiber composites prepared through near-field electrospinning", *J. Mater. Chem. A*, vol. 3, 2015, pp. 6835-6843.
286. J. S. C. Jang, T.H. Li, P.H. Tsai, J. C. Huang, and T. G. Nieh, "Critical obstacle size to deflect shear banding in Zr-based bulk metallic glass composites", *Intermetallics*, vol. 64, 2015, pp. 102-105.
287. Z.H. Liu, C.T. Pana, C.K. Yen, L.W. Line, J.C. Huang, C.A. Ke, "Crystallization and mechanical behavior of the ferroelectric polymer nonwoven fiber fabrics for highly durable wearable sensor applications", *Surf. Sci.*, vol. 346, 2015, pp. 291-301
288. H. K. Lin, K. C. Cheng, and J. C. Huang, "Effects of Laser Annealing Parameters on Optical and Electrical Properties of ITO/Metallic Glass Alloy Bi-layer Films", *Nano Lett.*, vol. 10:274, 2015.
289. Guan-Rong Huang, W. Y. Tsai, J. C. Huang, Chin-Kun Hu, "Analytical modelling for ultrasonic surface mechanical attrition treatment", *AIP Advances* 5, vol. 077126, 2015.
290. C.H. Hsieh, C.H. Chang, W.S. Chuang, X. Wang, J.C. Huang, "Tension behavior of interfaces between ZrCu metallic glass and Si or Zr", *Appl. Surf. Sci.* vol. 356, 2015, pp. 416-421.
291. S. Y. Kuan, J. C. Huang, Y. H. Chen, J. H. Wang, S. P. Ju, C. H. Hsieh, C. H. Chang, T. G. Nieh, and S. H. Chen, Y. M. Hwang , "Extended elastic region of nanocrystalline and amorphous metals under nano-tension testing", *Mater. Sci. Eng.*, vol. 646, 2015, pp.135-144.
292. T. Y. Wu, X. Wang, J. C. Huang, W. Y. Tsai, Y. Y. Chu, S. Y. Chen and X. H. Du, "Characterization and Functional Applications of Nanoporous Ag Foams Prepared by Chemical Dealloying", *Metall. Mater. Trans. B*, vol. 46, 2015, pp. 2296-2304.
293. Cheng-Tang Pan, Chung-Kun Yen, Shao-Yu Wang, Yan-Cheng Lai, Liwei Lin, J. C. Huang and Shiao-Wei Kuo, "Near-field electrospinning enhances the energy harvesting of hollow PVDF piezoelectric fibers", *RSC Adv.*, 2015, 5, pp. 85073-85081.
294. Chi Cun Kuo, I Chieh Chen, Chih Cheng Shih, Kuan Chang Chang, Chao Hsien Huang,

- Po Hsun Chen, Ting-Chang Chang, Tsung Ming Tsai, Jing Shuen Chang, and J. C. Huang, "Galvanic Effect of Au-Ag Electrodes for Conductive Bridging Resistive Switching Memory", IEEE Electron Device Letters, vol. 36, NO. 12, December 2015, pp. 1321-1324.
295. P. H. Tsai, K. T. Hsu, J. H. Ke, H. C. Lin, J. S. C. Jang & J. C. Huang, "Microalloying effect of Si on mechanical properties of Ti based bulk metallic glass", Materials Technology: Advanced Functional Materials, vol. 30, NO. A3, 2015, pp.162-166.
296. Y.H. Chen, J.C. Huang, X.H. Du, X. Wang, "Time-dependent creep behavior of amorphous ZrCu and nanocrystalline Zr thin films – A comparison", Intermetallics, vol. 68, 2016, pp. 101-106.
297. C.T. Pan, Y.C. Chen, T.L. Yang, Po-Hsun Lin, Po-Hung Lin, J.C. Huang, "Study of reflection-typed LED surgical shadowless lamp with thin film Ag-based metallic glass", Optik, vol. 127, issue 4, 2016, pp. 2193-2196.
298. C.H. Huang, J.J. Lai, J.C. Huang, C.H. Lin, J.S.C. Jang, "Effects of Cu content on electrochemical response in Ti-based metallic glasses under simulated body fluid", Mater. Sci. Eng., C, vol. 62, 2016, pp. 368-376.
299. J. H. Wu, W. Y. Tsai, J. C. Huang, C. H. Hsieh, Guan-Rong Huang, "Sample size and orientation effects of single crystal aluminum", Mater. Sci. Eng., A, vol. 62, 2016, pp. 296-302.
300. Pei Chun Wong, Tsung Hsiung Lee, Pei Hua Tsai, Cheng Kung Cheng, Chuan Li, Jason Shian-Ching Jang and J. C. Huang, "Enhanced Mechanical Properties of MgZnCa Bulk Metallic Glass Composites with Ti-Particle Dispersion", Metals, vol. 6(5), 2016, p. 116.
301. C. H. Chang, C. H. Hsieh, J. C. Huang, C. Wang, Y. C. Liao, C. H. Hsueh, X. H. Du, Z. K. Wang and X. Wang, "Designing a stronger interface through graded structures in amorphous/nanocrystalline ZrCu/Cu multilayered films", Nanotechnology, vol. 27, 2016, pp. 225701.
302. C. T. Pan, T. L. Yang, Y. C. Chen, C. M. Chang, J. H. Hsu, J. C. Huang, "Design of freeform lens with TFMG reflector for UV-LEDs lithography system", Optik, vol. 127, 2016, pp. 6850-6857.
303. Y. Zhao, C. C. Wang, X. Wang, J. C. Huang, G. H. Zhang, M. T. Wang, Z. C. Zhang, M. Wu, "Effects of precipitation behaviors on the microstructure and fracture toughness of Al-Cu-Mg aluminum alloys", Optoelectron. Adv. Mat., vol. 10, NO. 7-8, July-August, 2016, pp. 583-589.
304. Y. Zhao, X. Wang, J. C. Huang, X. Chen, L. Cao, M. Mu, "Affection of Cu content on the phase evolution during the dealloying of Ag-Cu alloys using electrochemical noise with Hilbert spectra analysis", Mater. Lett., vol. 183, 2016, pp. 165-169.
305. T. H. Li, P. H. Tsai, K. T. Hsu, Y. C. Liu, J. S. C. Jang, J. C. Huang, "Significantly enhanced drilling ability of the orthopedic drill made of Zr-based bulk metallic glass composite", Intermetallics, vol. 78, 2016, pp. 17-20.
306. S. C. Tsai, H. C. Chen, J. C. Huang, C. M. Chang and M. M. C. Chou, "Size and orientation effect on the mechanical properties of LiAlO₂", Mater. Sci. Eng. A, vol. 677, 2016, pp. 302-306.
307. P. H. Lin, X. H. Du, Y. H. Chen and J. C. Huang, "Nano-scaled diffusional or dislocation creep analysis of single-crystal ZnO", AIP Advances, vol. 6, 2016, 095125.
308. Guan-Rong Huang, J. C. Huang and W. Y. Tsai, "Origin of sample size effect: Stochastic dislocation formation in crystalline metals at small scales", Sci Rep., vol. 6, 2016, 39242.

309. L. Y. Chen, J. C. Huang, C. H. Lin, C. T. Pan, S. Y. Chen, T. L. Yang, D. Y. Lin, H. K. Lin and J. S. C. Jang, "Anisotropic response of Ti-6Al-4V alloy fabricated by 3D printing selective laser melting", *Mater. Sci. Eng. A*, vol. 682, 2017, pp. 389-395.
310. Pei-Chun Wong, Pei-Hua Tsai, Tsung-Hsiung Li, Cheng-Kung Cheng, J. S. C. Jang and J.C. Huang, "Degradation behavior and mechanical strength of Mg-Zn-Ca bulk metallic glass composites with Ti particles as biodegradable materials", *J. Alloys Compd.*, vol. 699, 2017, pp. 914-920.
311. Y. H. Wu, C. Wang, C. H. Hsueh, T. H. Li, C. H. Chang, H. C. Chen, J. S. C. Jang, J. C. Huang and Z. H. Ma, "Microstructure and mechanical properties of Zr-Ti-Cu-Nd metallic glass composites", *J. Alloys Compd.*, vol. 702, 2017, pp. 318-326.
312. Y. M. Lu, J. F. Zeng, J. C. Huang, S. Y. Kuan, T. G. Nieh, W. H. Wang, M. X. Pan, C. T. Liu, and Y. Yang, "In-situ atomic force microscopy observation revealing gel-like plasticity on a metallic glass surface", *J Appl Phys.*, vol. 121, 2017, 095304.
313. Xing-hao Du, Rui Wang, Cai Chen, Bao-lin Wu and J.C. Huang, "Preparation of a Light-Weight MgCaAlLiCu High-Entropy Alloy", *Key Eng. Mater.*, vol. 727, 2017, pp. 132-135.
314. T. H. Li, P. C. Wong, S. F. Chang, P. H. Tsai, J. S. C. Jang and J. C. Huang, "Biocompatibility study on Ni-free Ti-based and Zr-based bulk metallic glasses", *Mater. Sci. Eng. C*, vol. 75, 2017, pp. 1-6.
315. C. H. Lin, C. H. Chen, Y. S. Huang, C. H. Huang, J. C. Huang, J. S. C. Jang and Y. S. Ling, "In-vivo investigations and cytotoxicity tests on Ti/Zr-based metallic glasses with various Cu contents", *Mater. Sci. Eng. C*, vol. 77, 2017, pp. 308-317.
316. S. Y. Chen, J. C. Huang, C. T. Pan, C. H. Lin, T. L. Yang, Y. S. Huang, C. H. Ou, L. Y. Chen, D. Y. Lin, H. K. Lin, T. H. Li, J. S. C. Jang and C. C. Yang, "Microstructure and mechanical properties of open-cell porous Ti-6Al-4V fabricated by selective laser melting", *J. Alloys Compd.*, vol. 713, 2017, pp. 248-254.
317. Wei-Yu Tsai, Guan-Rong Huang, Kuang-Kuo Wang, Chin-Fu Chen and J. C. Huang, "High Thermal Dissipation of Al Heat Sink When Inserting Ceramic Powders by Ultrasonic Mechanical Coating and Armoring", *Materials*, vol. 10, 2017, pp. 454.
318. C. T. Pan, C. H. Lin, Y. S. Huang, T. L. Yang, S. Y. Chen, C. H. Ou, L. Y. Chen, J. C. Huang, J. S. C. Jang, H. K. Lin, and D. Y. Lin, "Design of Interbody Fusion Cages of Ti6Al4V with Gradient Porosity Using a Selective Laser Melting Process for Spinal Fusion Arthroplasty", *J. Laser Micro/Nanoeng.*, vol. 12, 2017, pp. 34-44.
319. C. M. Chang, C. J. Yang, K. K. Wang, J. K. Liu, J. H. Hsu, and J. C. Huang, "On the reflectivity and antibacterial/antifungal responses of Al-Ni-Y optical thin film metallic glass composites", *Surf. Coat. Technol.*, vol. 327, 2017, pp. 75-82.
320. W. S. Chuang, C. H. Hsieh, J. C. Huang, P. H. Lin, K. Takagi, Y. Min, and K. Takashima, "Relation between sample size and deformation mechanism in Mg-Zn-Y 18RLPSO single crystals", *Intermetallics*, vol. 91, 2017, pp. 110-119.
321. Y. Zhao, X. Wang, F. Li, R. W. Zhang, J. C. Huang and M. Wu, "Effect of Ag Content on Phase Evolution during the De-Alloying of Ag-Al Alloy: Combining the Electrochemical Noise with the Wavelet and Analysis", *Int. J. Electrochem. Sci.*, vol. 12, 2017, pp. 11150-11162.
322. J. J. Lai, Y. S. Lin, C. H. Chang, T. Y. Wei, J. C. Huang, Z. X. Liao, C. H. Lin, and C. H. Chen, "Promising Ta-Ti-Zr-Si metallic glass coating without cytotoxic elements for bio-implant applications", *Appl. Surf. Sci.*, vol. 427, 2018, pp. 485-495.

323. M. T. Tsai, J. C. Huang, W. Y. Tsai, T. H. Chou, Chin-Fu Chen, T. H. Li and J. S. C. Jang, “Effects of ultrasonic surface mechanical attrition treatment on microstructures and mechanical properties of high entropy alloys”, *Intermetallics*, vol. 93, 2018, pp. 113-121.
324. T. H. Li, Y. C. Liao, S. M. Song, Y. L. Jiang, P. H. Tsai, J. S. C. Jang and J. C. Huang, “Significantly enhanced mechanical properties of ZrAlCo bulk amorphous alloy by microalloying with Ta”, *Intermetallics*, vol. 93, 2018, pp. 162-168.
325. C. T. Pan, C. K. Yen, S. Y. Wang, S. K. Fan, F. Y. Ciou, L. Lin, J. C. Huang and S. W. Kuo, “Energy Harvester and Cell Proliferation from Biocompatible PMLG Nanofibers Prepared Using Near-Field Electrospinning and Electrospray Technology”, *J. Nanosci. Nanotechnol.*, vol. 18, 2018, pp. 156-164.
326. W. S. Chuang, Y. C. Cai, J. C. Huang, W. Y. Tsai, K. K. Wang, C. F. Chen and X. H. Du, “Surface hardness improvement of Al via inserting ceramic powders by ultrasonic mechanical coating and armoring with subsequent annealing”, *Surf. Coat. Technol.*, vol. 340, 2018, pp. 145-150.
327. S. Y. Chen, C. N. Kuo, Y. L. Su, J. C. Huang, Y. C. Wu, Y. H. Lin, Y. C. Chung and C. H. Ng, “Microstructure and fracture properties of open-cell porous Ti-6Al-4V with high porosity fabricated by electron beam melting”, *Mater. Charact.*, vol. 138, 2018, pp. 255-262.
328. R. Zhang, X. Wang, Z. Zhang, J. C. Huang, F. Shi and M. Wu, “Structure analysis of precursor alloy and diffusion during dealloying of Ag-Al alloy”, *RSC Adv.*, vol. 8, 2018, pp. 9462-9470.
329. Y. C. Liu, J. C. Huang, X. Wang, M. T. Tsai and Z. K. Wang, “Nanoporous foam fabricated by dealloying AgAl thin film through supercritical fluid corrosion”, *RSC Adv.*, vol. 8, 2018, pp. 13075-13082.
330. H. Tao, M. T. Tsai, H. W. Chen, J. C. Huang and J. G. Duh, “Improving high-temperature tribological characteristics on nanocomposite CrAlSiN coating by Mo doping”, *Surf. Coat. Technol.*, vol. 349, 2018, pp. 752-756.
331. T. Y. Wei, J. C. Huang, C. Y. Chao, L. L. Wei, M. T. Tsai and Y. H. Chen, “Microstructure and elastic modulus evolution of TiTaNb alloys”, *J. Mech. Behav. Biomed.*, vol. 86, 2018, pp. 224-231.
332. Y. T. Tseng, I. C. Chen, T. C. Chang, J. C. Huang, C. C. Shih, H. X. Zheng, W. C. Chen, M. H. Wang, W. C. Huang, M. C. Chen, X. H. Ma, Y. Hao and Simon M. Sze, “Enhanced electrical behavior from the galvanic effect in Ag-Cu alloy electrode conductive bridging resistive switching memory”, *Appl. Phys. Lett.*, vol. 113, 2018, pp. 053501.
333. Y. C. Wu, C. N. Kuo, M. Y. Shie, Y. L. Su, L. J. Wei, S. Y. Chen and J. C. Huang, “Structural design and mechanical response of gradient porous Ti-6Al-4V fabricated by electron beam additive manufacturing”, *Mater. Des.*, vol. 158, 2018, pp. 256-265.
334. M. T. Tsai, J. C. Huang, P. H. Lin, T. Y. Liu, Y. C. Liao, Jason S. C. Jang, S. X. Song and T. G. Nieh, “Creep of face-centered-cubic {111} and {100} grains in FeCoNiCrMn and FeCoNiCrMnAl alloys: Orientation and solid solution effects”, *Intermetallics*, vol. 103, 2018, pp. 88-96.
335. S. W. Kuo, C. T. Pan, S. Y. Wang, C. H. Chien, J. C. Huang, L. W. Lin, “Energy Harvesters Incorporating Silks from the Taiwan-Native Spider *Nephila pilipes*”, *ACS Applied Energy Materials*, vol. 1, 2018, pp. 5627-5635.
336. F. Shi, C. C. Wang, X. Y. Liu, X. Wang, J. Huang, D. M. Jiang, M. Wu and Z. C. Zhang, “Effects of Temperature Ramping Ageing on Mechanical Properties and Microstructure

- of Al-4.11Zn-1.77Mg Alloy”, J. of Metals (JOM), vol. 71(1), 2019, pp. 373-381.
337. W. S. Chuang, J. C. Huang, P. H. Lin, C. H. Hsieh, Y. H. Lin, K. Takagi, Y. Mine and K. Takashima, “Deformation mechanisms and mechanical properties of (0001)Mg-Zn-Y 18R-LPSO single crystals”, J. Alloys Compd., vol. 772, 2019, pp. 288-297.
338. Y. C. Liao, S. M. Song, T. H. Li, Y. L. Chiang, P. H. Tsai, V. T. Nguyen, S. Y. Li, J. S. C. Jang and J. C. Huang, “ Significant TRIP-effect improvement by manipulating ZrCu-B2 distribution in ZrCuAlCo-based bulk metallic glass composites via inoculating Ta particles”, J. Alloys Compd., vol. 744, 2019, pp. 547-555.
339. C. M. Chang, H. K. Lin, U. G. Huang, H. A. Hong and J. C. Huang, “Effects of different annealing processes on optoelectronic and bending fatigue properties of AgZr and ITO/AgZr thin film metallic glass”, OPT. LASER. ENG., vol. 115, 2019, pp. 100-106.
340. Y. Yao, Z. H. Huang, H. Ma, H. Zhang, Z. M. Zhang, C. J. Xu, N. Zhou, M. Kuang and J. C. Huang, “ High strength Mg-1.4Gd-1.2Y-0.4Zn sheet and its strengthening mechanisms”, Mater. Sci. Eng. A, vol. 747, 2019, pp. 17-26.
341. T. H. Li, Y. C. Liao, S. M. Song, V. T. Nguyen, P. H. Tsai, J. S. C. Jang and J. C. Huang, “ New method for determination of hidden supercooled liquid region of TiZr-based amorphous alloys”, J. Non-Cryst. Solids., vol. 510, 2019, pp. 1-5.
342. G. X. Liu, M. Wu, Y. J. Yang, X. Y. Liu, C. C. Wang, J. C. Huang and X. Wang, “Effect of Mg Content on Stress Corrosion Cracking of Al-X Mg Alloys”, Int. J. Electrochem. Sci., vol. 14. 2019, pp. 2631-2644.
343. R. Zhang, X. Wang, J. C. Huang, F. Li, Z. Zhang and M. Wu, “Formation mechanism of nanoporous silver during dealloying with ultrasonic irradiation”, RSC Adv., vol. 9, 2019, pp. 9937-9945.
344. Y. Y. Zhao, Z. F. Lei, Z. P. Lu, J. C. Huang and T. G. Nieh, “A simplified model connecting lattice distortionwith friction stress of Nb-based equiaatomic high-entropy alloys”, Mater Res Lett., vol. 7, 2019, pp. 340-346.
345. Y. C. Wu, C. N. Kuo, Y. C. Chung, C. H. Ng and J. C. Huang, “Effects of Electropolishing on Mechanical Properties and Bio-Corrosion of Ti6Al4V Fabricated by Electron Beam Melting Additive Manufacturing”, Materials, vol. 12, 2019, pp.1466.
346. C. Chen, H. W. Chen, C. Y. Wu, J. C. Huang and J. G. Du, “Heterostructural modulation of in situ growth of iron oxide/holey graphene framework nanocomposites as excellent electrodes for advanced lithium-ion batteries”, Appl. Surf. Sci., vol. 485, 2019, pp. 247-254.
347. S. M. Song, Y. C. Liao, T. H. Li, C. K. Lee, P. H. Tsai, J. S. C. Jang and J. C. Huang, “Thermoplastic deformation behavior of a Fe-based bulk metallic glass within the supercooled liquid region”, J. Mater. Res. Technol., vol. 8, 2019, pp. 1907-1914.
348. Y. H. Lin, W. S. Chuang, J. C. Huang, C. Y. Chao and C. M. Chang, “Influence from Size and Morphology of Mn₅Si₃ on Wear Resistance of Cu-Zn-Al-Mn-Si Alloys”, Metall. Mater. Trans. A, vol. 50, 2019, pp. 3148-3157.
349. T. Y. Liu, J. C. Huang, W. S. Chuang, H. S. Chou, J. Y. Wei, C. Y. Chao, Y. C. Liao and J. S. C. Jang, “Spinodal Decomposition and Mechanical Response of a TiZrNbTa High-Entropy Alloy”, Materials, vol. 12, 2019, pp. 3508-3520.
350. P. H. Lin, H. S. Chou, J. C. Huang, W. S. Chuang, J. S. C. Jang and T. G. Nieh, “Elevated-temperature creep of high-entropy alloys via nanoindentation”, MRS Bull., vol. 44, 2019, pp. 860-866.
351. X. H. Du, H. T. Chen, C. Chen, X. F. Huo, W. P. Li, J. C. Huang, G. S. Duan and B. L.

- Wu, "Extraordinary room-temperature tensile ductility of pure magnesium", Materials, vol. 12, 2019, pp. 3813-3822.
352. Y. C. Liao, T. H. Li, P. H. Tsai, J. S. C. Jang, K. C. Hsieh, C. Y. Chen, J. C. Huang, H. J. Wu, Y. C. Lo, C. W. Huang, I. Y. Tsao, "Designing novel lightweight, high-strength and high-plasticity $Ti_x(AlCrNb)_{100-x}$ medium-entropy alloys", Intermetallics, vol. 13, 2020, pp. 36 (1-13).
353. X. K. Zhang, H. T. Ye, J. C. Huang, T. Y. Liu, P. H. Lin, Y. C. Wu, M. T. Tsai, Y. C. Liao and J. S. C. Jang, "Nano-scaled creep response of TiAlV low density medium entropy alloy at elevated temperatures", Materials, vol. 13, 2020, pp. 36 (1-13).
354. M. Wu, Z. H. Zhao, X. Wang, J. C. Huang and X. Y. Liu, "Synergistic Effects of a Sulfate-Reducing Bacteria and an Applied Stress on the Corrosion Behavior of 17-4 PH Stainless Steel After Different Heat Treatments" Int. J. Electrochem. Sci., vol. 15, 2020, pp. 208-222.
355. Y. C. Liao, P. S. Chen, C. H. Li, P. H. Tsai, J. S. C. Jang, K. C. Hsieh, C. Y. Chen, P. H. Lin, J. C. Huang, H. J. Wu, Y. C. Lo, C. W. Huang and I. Y. Tsao, "Development of Novel Lightweight Dual-Phase Al-Ti-Cr-Mn-V Medium-Entropy Alloys with High Strength and Ductility", Entropy, vol. 22, 2020, pp. 74-88.
356. H. Ma, Z. H. Huang, Y. Yao, H. Zhang, Z. M. Zhang, C. J. Xu, Y. H. Kang, S. C. Wang, M. Kuang and J. C. Huang, "Evolution of microstructures and mechanical properties of Mg-1.4Gd-1.2Y-0.4Zn-0.5Al sheets with different extrusion ratios", J. Alloys Compd., vol. 817, 2020, 152769.
357. H. K. Lin, Y. T. Wang, W. S. Chuang, H. S. Chou and J. C. Huang, "Surface resonance properties of pure Cu and Cu₈₀Zr₂₀ metallic glass films with nanoparticles induced by pulsed-laser dewetting process", Appl. Surf. Sci., vol. 507, 2020, 145185.
358. X. K. Zhang, J. C. Huang, P. H. Lin, W. S. Chuang, T. Y. Liu, Y. C. Wu, Y. C. Liao and J. S. C. Jang, "Effect of orientation and loading rate on the incipient behavior of $Ti_{60}(AlCrVNb)_{40}$ medium entropy alloy", Mater. Sci. Eng. A, vol. 775, 2020, 138969.
359. Q. W. Tian, G. J. Zhang, K. X. Yin, L. Wang, W. W. Wang, W. L. Cheng, Y. N. Wang and J. C. Huang, "High temperature deformation mechanism and microstructural evolution of relatively lightweight AlCoCrFeNi high entropy alloy", Intermetallics, vol. 119, 2020, 106707.
360. G. J. Zhang, Q. W. Tian, K. X. Yin, S. Q. Niu, M. H. Wu, W. W. Wang, Y. N. Wang, and J. C. Huang, "Effect of Fe on microstructure and properties of AlCoCrFe_xNi (x=1.5, 2.5) high entropy alloy coatings prepared by laser cladding", Intermetallics, vol. 119, 2020, 106722.
361. Y. H. Chen, W. S. Chuang, J. C. Huang, X. Wang, H. S. Chou, Y. J. Lai, and P. H. Lin, "On the bio-corrosion and biocompatibility of TiTaNb medium entropy alloy films", Appl. Surf. Sci., vol. 508, 2020, 145307.
362. H. K. Lin, H. A. Chen, U. G. Huang, C. M. Chang, and J. C. Huang, "Effects of Mg content and thermal treatments on optoelectronic and bending properties of transparent conductive indium tin oxide/AgMg bi-layer film", Thin Solid Films, vol. 697, 2020, 137842.
363. X. H. Du, X. F. Huo, H. T. Chang, W. P. Li, G. S. Duan, J. C. Huang, B. L. Wu, N. F. Zou, and L. Zhang, "Superior strength-ductility combination of a Co-rich CoCrNiAlTi high-entropy alloy at room and cryogenic temperatures", Mater. Res. Express, vol. 7, 2020, 034001.

364. X. K. Zhang, J. C. Huang, P. H. Lin, T. Y. Liu, Y. C. Wu, W. P. Li, Y. N. Wang, Y. C. Liao, and J. S. C. Jang, “Microstructure and mechanical properties of $Ti_x(AlCrNb)_{100-x}$ light weight multi-principal element alloys”, *J. Alloys Compd.*, vol. 831, 2020, 154742.
365. X. Y. Liu, C. C. Wang, X. Wang, Z. J. Zhao, M. Wu, J. C. Huang, and Z. H. Huang, “Microstructure optimization and comprehensive property improvement of Al-4.47Zn-2.13Mg-1.2Cu alloy by non-isothermal aging treatment”, *JOM*, vol. 72, 2020, pp. 1540-1551.
366. W. Y. Chen, H. W. Chen, W. P. Li, J. C. Huang, H. S. Yu, J. G. Duh, S. Lan, and T. Feng, “Compositionally modulated microstructure in nano-layered Ni-P metallic glass composite coating prepared by electrodeposition”, *Surf. Coat. Tech.*, vol. 389, 2020, 125636.
367. Y. H. Kang, Z. H. Huang, S. C. Wang, H. Yeh, R. S. Chen, and J. C. Huang, “effect of pre-deformation on microstructure and mechanical properties of WE43 magnesium alloy II: Aging at 250 and 300 °C”, *J. Magnes. Alloy.*, vol. 8, 2020, 103-110.
368. Y. H. Kang, Z. H. Huang, H. Zhao, C. L. Gan, N. Zhou, K. H. Zheng, J. Zhang, F. S. Pan, J. C. Huang, and S. C. Wang, “Comparative study of hot deformation behavior and microstructure evolution of as-cast and extruded WE43 Magnesium alloy”, *Metals*, vol. 10, 2020, 429.
369. Z. Jia, T. Yang, L. G. Sun, W. P. Li, J. H. Luan, F. C. Lyu, L. C. Zhang, J. J. Kai, J. C. Huang, J. Lu, and C. T. Liu, “A novel multinary intermetallic as an active electrocatalyst for hydrogen evolution”, *Adv. Mater.*, 2020, 2000385.
370. X. H. Du, W. P. Li, H. T. Chang, T. Yang, G. S. Duan, B. L. Wu, J. C. Huang, F. R. Chen, C. T. Liu, W. S. Chuang, Y. Lu, M. L. Sui and E. W. Huang, “Dual heterogeneous structures lead to ultrahigh strength and uniform ductility in a Co-Cr-Ni medium-entropy alloy”, *Nat. Commun.*, vol. 11, 2020, 2390.
371. Y. C. Liao, S. M. Song, T. H. Li, J. B. Li, P. H. Tsai, J. S. C. Jang, C. H. Huang, J. C. Huang, Y. S. Huang, C. H. Lin, Y. S. Lin and C. H. Chen, “Synthesis and characterization of an open-pore toxic-element-free Ti-based bulk metallic glass foam for bio-implant application”, *J. Mater. Res. Technol.*, vol. 9(3), 2020, 4518-4526.
372. X. Y. Liu, D. Y. Zhang, C. C. Wang, X. Wang, Z. J. Zhao, M. Wu and J. C. Huang, “Effect of grain boundary precipitation on corrosion of heating-aging treated Al-4.47Zn-2.13Mg-1.20Cu alloy”, *J. Mater. Res. Technol.*, vol. 9(3), 2020, 5815-5826.
373. X. K. Zhang, P. H. Lin and J. C. Huang, “Lattice distortion effect on incipient behavior of Ti-based multi-principal element alloys”, *J. Mater. Res. Technol.*, vol. 9, 2020, 8136-8147.
374. T. H. Chou, J. C. Huang, C. H. Yang, S. K. Lin and T. G. Nieh, “Consideration of kinetics on intermetallics formation in solid-solution high entropy alloys”, *Acta Mater.*, vol. 195, 2020, 1-10.
375. T. Yang, Y. L. Zhao, W. P. Li, C. Y. Yu, J. H. Luan, D. Y. Lin, L. Fan, Z. B. Jiao, W. H. Liu, X. J. Liu, J. J. Kai, J. C. Huang and C. T. Liu, “Ultrahigh-strength and ductile superlattice alloys with nanoscale disordered interfaces”, *Science*, vol. 369, 2020,
376. P. H. Lin, J. C. Huang, X. K. Zhang, H. S. Chou, W. S. Chuang, T. Y. Liu, Y. C. Liao and J. S. C. Jang, “Room- and elevated-temperature nano-scaled mechanical properties of low-density Ti-based medium entropy alloy”, *Materials Science and Engineering: A* 798 (2020) 140140.
377. M. J. Jhong, I. L. Jen, K. K. Wang, W. T. Yen, J. C. huang, J. S. C. Jang, K. C. Hsieh and H. J. Wu, “Nano-structure to Laves phase: Reduced Thermal Conductivity from Medium-Entropy AlNbV to High-Entropy AlNbVCrTi Alloys”, *Materialia* 14 (2020)

100889.

378. H. T. Chang, W. P. Li, T. Yang, J. C. Huang, B. L. Wu, G. S. Duan, and X. H. Du, "Recent development of mechanical behavior of cubic high-entropy alloys at cryogenic temperature", Rare Metal Materials and Engineering (Northwest Institute for Nonferrous Metal Research), vol. 49(9), 2020, pp. 3273-3284.
379. H. T. Chang, X. F. Huo, W. P. Li, T. Yang, J. C. Huang, B. L. Wu, G. S. Duan, and X. H. Du, "Research Development of Strengthening Mechanism of High Entropy Alloy", Rare Metal Materials and Engineering (Northwest Institute for Nonferrous Metal Research), vol. 49(10), 2020, pp. 3632-3645.
380. C. Chen, J. C. Huang and J. G. Duh, "Self-template fabrication of multi-scaled ZnFe₂O₄ microspheres and their excellent lithium-ion storage properties", Journal of Alloys and Compounds, vol. 862, 2021, 158342.
381. X. K. Zhang, T. H. Chou, W. P. Li, Y. N. Wang, J. C. Huang and L. Cheng, "Microstructure and mechanical properties of (FeCoNi)_{100-x}(NiAl)_x eutectic multi-principal element alloys", Journal of Alloys and Compounds, vol. 862, 2021, 158349.
382. C. T. Pan, C. H. Lin, Y. K. Huang, Jason S. C. Jang, H. K. Lin, C. N. Kuo, D. Y. Lin and J. C. Huang. "Design of Customize Interbody Fusion Cages of Ti64ELI with Gradient Porosity by Selective Laser Melting Process", Micromachines, 2021, 12(3): 307.
383. W. P. Li, T. H. Chou, T. Yang, W. S. Chuang, Jacob C. Huang, J. H. Luan, X. K. Zhang, X. F. Huo, H. J. Kong, Q. F. He, X. H. Du, C. T. Liu and F. R. Chen "Design of ultrastrong but ductile medium-entropy alloy with controlled precipitations and heterogeneous grain structures", Applied Materials Today, 23 (2021) 101037427-432.
384. L. Ma, W. P. Li, K. X. Yang, J. J. Bi, J. C. Feng, J. B. Zhang, Z. G. Yan, X. Y. Zhou, C. X. Liu, Y. Ji, J. C. Huang, and X. D. Han, "A- or X-site mixture on mechanical properties of APbX₃ perovskite single crystals", APL Materials 9, 041112 (2021)
385. Y. C. Wu, C. N. Kuo, T. H. Wu, T. Y. Liu, Y. W. Chen, X. H. Guo and J.C. Huang, "Empirical rule for predicting mechanical properties of Ti-6Al-4V bone implants with radial-gradient porosity bionic structures", Materials Today Communications 27, (2021) 102346.
386. Q. W. Tian, G. J. Zhang, K. X. Yin, W. L. Cheng, Y. N. Wang and J. C. Huang, "Effect of Ni content on the phase formation, tensile properties and deformation mechanisms of the Ni-rich AlCoCrFeNix (x = 2, 3, 4) high entropy alloys", Materials Characterization 176, (2021) 111148.
387. Y. C. Liao, W. T. Ye, P. S. Chen, P. H. Tsai, J. S. C. Jang, K. C. Hsieh, C. Y. Chen, J. C. Huang, H. J. Wu, Y. C. Lo, C. W. Huang and I. Y. Tsao, "Effect of Al concentration on the microstructural and mechanical properties of lightweight Ti₆₀Al_x(VCrNb)_{40-x} medium-entropy alloys", Intermetallics 135, (2021) 107213.
388. W. P. Li, C. X. Liu, L. L. Liu, J. C. Huang and W. Sun, "Activation of pyramidal II <c+a> slips at room temperature in Mg-Zn-Y 18R and 14H long-period stacking ordered phases", Intermetallics 135, (2021) 107225.
389. H. K. Lin, J. J. Wang, W. H. Lu, W. S. Chuang C. Y. Chen, H. S. Chou and J. C. Huang, "Microstructure and optical properties of AgCuAl medium entropy films with nanoparticles induced by pulsed-laser dewetting", Surface & Coatings Technology 421 (2021) 127427.
390. H. K. Lin, C. W. Huang, Y. H. Lin, W. S. Chuang, and J. C. Huang, "Effects of Accumulated Energy on Nanoparticle Formation in Pulsed-Laser Dewetting of AgCu Thin Films", Nanoscale Res Lett (2021) 16:110.
391. P. S. Chen, Y. C. Liao, Y. T. Lin, P. H. Tsai, Jason S. C. Jang, K. C. Hsieh, C. Y. Chen, J. C. Huang, H. J. Wu, and I. Y. Tsao, "Development of Novel Lightweight Al-Rich

- Quinary Medium-Entropy Alloys with High Strength and Ductility", Materials 2021, 14, 4223.
392. Z. J. Zhao, W. Y. Chen, W. Y. Li, X. D. Li, H Yan, X. Wang, J. C. Huang, and M. Wu, "Effects of pre-oxidation conditions on microstructure evolution and hydrogen evolution reaction performance of nano-porous Ag", J MATER RES TECHNOL 2021;15: 2221–2226.
 393. J. Zhang, H. Zou, S. F. Gan, B. Z. He, J. C. Huang, C. Peng, J. W. Y. Lam, L. Zheng, and B. Z. Tang, "Endowing AIE with Extraordinary Potential: A New Au(I)-Containing AIEgen for Bimodal Bioimaging-Guided Multimodal Synergistic Cancer Therapy". Adv. Funct. Mater. 2021, 2108199.
 394. G. J. Zhang, Q. W. Tian, K. X. Yin, S. Q. Niu, M. H. Wu, Y. N. Wang, and J. C. Huang. "Microstructure, Hardness and Wear Behavior of AlxCoCrFe2Ni ($x = 0.3, 0.7, 1.0$) High Entropy Alloy Coatings Prepared by Laser Cladding". JOM 73, 3597–3605 (2021).
 395. Z. J. Zhao, W. P. Li, Y. H. Chen, X. Y. Liu, T. H. Chou, X. Wang, J. C. Huang, and M. Wu. "Effect of high temperature oxidation on dealloying mechanism of Ag-Cu alloy". Journal of Alloys and Compounds 896 (2021) 1.
 396. C. Y. Jin, X. H. Du, F. Yan, C. X. Shi, Y. H. Gai, J. C. Huang, W. P. Li, B. L. Wu, G. S. Duan, and D. P. Wang, "Research Progress on strengthening toughening behavior and the associated mechanisms of Cu-Ni alloys", Materials Reports, vol. 35, No. Z2, 2021, pp. 372-375.,
 397. W. Y. Chen, Y. H. Chen, W. P. Li, R. Zhou, T. H. Chou, X. Wang, and J. C. Huang. "Passivation evolution of Ti -Ta-Nb medium-entropy sputtered thin films in sulfuric acid solution". Applied Surface Science 576 (2022) 151824.
 398. W. J. Zhao, J. Z. Qin, W. Teng, J. C. Mu, C. Chen, J. Ke, J. C. Huang, B. J. Liu and S. B. Wang. "Catalytic photo-redox of simulated air into ammonia over bimetallic MOFs nanosheets with oxygen vacancies". Applied Catalysis B: Environmental 305 (2022) 121046.
 399. Y. C. Liao, P. S. Chen, P. H. Tsai, J. S. C. Jang, K. C. Hsieh, H. W. Chang, C. Y. Chen, J. C. Huang, H. J. Wu, Y. C. Lo, C. W. Huang, and I. Y. Tsao, "Effect of thermomechanical treatment on the microstructure evolution and mechanical properties of lightweight Ti65(AlCrNb)35 medium-entropy alloy", Intermetallics, vol. 143, 2022, 107470.
 400. J. J. Wang, H. K. Lin, W. S. Chuang, C. Y. Chuang, Y. H. Lin, J. C. Huang, and Y. H. Lin, "Laser dewetting mechanism and antibacterial properties of Cu-Al based medium entropy alloy films", Journal of Alloys and Compounds, vol. 903, 2022, 163893.
 401. S. M. Huang, P. Y. Li, J. Wang, J. C. Huang, Q. F. Xue, and N. Q. Fu, "Modification of SnO₂ electron transport Layer: Brilliant strategies to make perovskite solar cells stronger", Chemical Engineering Journal, 439, 2022, 135687.
 402. X. H. Du, Y. H. Gai, W. P. Li, T. H. Chou, J. C. Huang, C. X. Shi, G. S. Duan, and B. L. Wu, "Superb strengthening behavior in a precipitation strengthened Co-rich CoCrNiAlTi medium entropy alloy with acceptable ductility", Intermetallics, 146, 2022, 107582.
 403. J. Huang, W. P. Li, J. Y. He, R. Zhou, T. H. Chou, T. Yang, C. T. Liu, W. D. Zhang, Y. Liu, and J. C. Huang, "Dual heterogeneous structure facilitating an excellent strength-ductility combination in an additively manufactured multi-principal-element alloy", Materials Research Letters, vol. 10, 2022, 575-584.
 404. L. Romero-Resendiz, M. El-Tahawy, T. Zhang, M. C. Rossi, D. M. Marulanda-Cardona, T. Yang, V. Amigo-Borr' as', Y. Huang, H. Mirzadeh, I. J. Beyerlein, J. C. Huang, T. G. Langdon, and Y. T. Zhu, "Heterostructured stainless steel: Properties, current trends, and future perspectives ", Materials Science & Engineering R, vol. 150, 2022, 100691.

405. C. Y. Jin, X. H. Du, W. P. Li, W. Y. Chen, F. Yan, C. X. Shi, T. H. Chou and J. C. Huang, "Investigation on an anti-corrosion Cu-rich multiple-principal-element alloy strengthened and toughened by nano-scaled L12-type ordered particles", *Int. J. Mater. Res.*, 2022, 1-8.
406. C. X. Shi, X. H. Du, J. Y. Zhang, G. S. Duan, M. C. Yang, R. F. Zu, W. P. Li, T. H. Chou, B. L. Wu, J. Sun and J. C. Huang, "Superb strength-ductility synergy in a medium-entropy CoCrNi alloy via reinforced TRIP effect", *J. Mater. Res. Technol.*, vol. 20, 2022, 104-113.
407. T. B Ji, T. Q Niu, J. Wang, R. Lu, Z. C. Wen, D. X. Luo, J. C. Huang, Y. G. Min, S. Wang, Yuriy N. Luponosov, S. Pan, Y. H. Chen and Q. F. Xue, "Crystallization regulation of solution-processed two-dimensional perovskite solar cells", *J. Mater. Chem. A.*, vol. 10, 2022, 13625.
408. S. J. Hu, Farzan Shabani, B. Q. Liu, L. J. Zhang, M. Guo, G. H. Lu, Z. S. Zhou, J. Wang, J. C. Huang, Y. G. Min, Q. F. Xue, Hilmi Volkan Demir, and C. Liu, "High-Performance Deep Red Colloidal Quantum Well Light-Emitting Diodes Enabled by the Understanding of Charge Dynamics", *ACS Nano*, vol. 16, 2022, 10840-10851.
409. C. Chen, R. Kevorkyants, J. C. Huang*, W. J. Zhao, B. J. Liu, and J. G. Duh, "Tunable oxygen-vacancy mediated hybrid NiCo₂O₄ microspheres coupled by holey graphene framework with superior lithium-ion storage properties", *Mater. Chem. Phys.*, vol. 292, 2022, pp. 126876 (1-12).
410. Y. C. Liao, P. S. Chen, P. H. Tsai , J. S. C. Jang*, K. C. Hsieh, C. Y. Chen, J. C. Huang*, H. J. Wu, and I. Y. Tsao, "Tailored rapid annealing to obtain heterostructured ultra-high strength lightweight Ti-rich medium-entropy alloys", *Results in Materials*, vol. 16, 2022, pp. 100342 (1-4).
411. T. H. Chou, W. P. Li*, H. W. Chang, X. H. Du, W. S. Chuang, T. Yang*, Y. T. Zhu*, and J. C. Huang*, "Quantitative analyses of hetero-deformation induced strengthening in heterogeneous grain structure", *International Journal of Plasticity*, vol. 159, 2022, pp. 103482 (1-15).
412. Po-Yuan Yeh, Jacob C. Huang, Jason S. C. Jang, Cheng-Tang Pan, Chung-Hwan Chen, C. H. Lin, "Recent Developments in Additive-Manufactured Intermetallic Compounds for Bio-Implant Applications", *Journal of Medical and Biological Engineering*, vol. 42, 2022, pp. 800-815.
413. Hang Zou, Shifeng Gan, Hanchen Shen, Benzhao He, Zheng Zheng, Jingjun Li, J. C. Huang, Lei Zheng, Ben Zhong Tang, and Jing Zhang, "A novel drug susceptibility testing AIEgen with spatiotemporal resolved progress-reporting characteristic for therapy of drug-resistant tumor", *Mater. Today*, vol. 61, 2022, pp. 117-128.
414. Xin-yuan Wang, Xin-yi Liu, Chen-chong Wang, Tian-xiang Li, Duo Liu, Xu Wang*, Jianmin Ren*, J.C. Huang, "Effect of Tempering Time on Corrosion Resistance of High Co-Ni Steel", *Int. J. Electrochem. Sci.*, vol. 17, 2022, pp. 221216.
415. Wenyu Chen, Rui Zhou, Wanpeng Li, Yen-Hsiang Chen, Tzu-Hsiu Chou, Xu Wang, Yong Liu, Yuntian Zhu*, J.C. Huang*, "Effect of interstitial carbon and nitrogen on corrosion of FeCoCrNi multi-principal element alloys made by selective laser melting", *J. Mater. Sci. Technol.*, vol. 148, 2023, pp. 52-63.
416. Rui Zhou, Wenyu Chen, Wanpeng Li, Tzu-Hsiu Chou, Yen-Hsiang Chen, Xiaopeng Liang, Junhua Luan, Yuntian Zhu*, J. C. Huang*, Yong Liu, "3D printed N-doped CoCrFeNi high entropy alloy with more than doubled corrosion resistance in dilute sulphuric acid", *NPJ Mater. Degrad.*, vol. 8, 2023.
417. Yan Fei, Du Xinghao, Jin Chengyan, Shi Chuanxin, Gai Yehui, Li Wanpeng, Tzu Hsiu Chou, and Huang Chih-Ching, "High-temperature strengthening and toughening behavior

- and associated deformation mechanism of CoCrNi-based medium entropy alloy with rich Co and Cr content”, Rare Metal Materials and Engineering (Northwest Institute for Nonferrous Metal Research), vol. 52(1), 2023, pp. 179-185.
418. T. H. Chou, W. P. Li, H. W. Chang, B. X. Cao, J. H. Luan, J. C. Huang, and T. Yang, “Suppressing temperature-dependent embrittlement in high-strength medium-entropy alloy via hetero-grain/precipitation engineering”, *Scripta Mater.*, vol. 229, 2023, pp. 115377 (1-6).
419. Xinyi Liu, Wanpeng Li, Wenyu Chen, Tzu-Hsiu Chou, Chenchong Wang, Jianmin Ren, Xu Wang*, Jacob C. Huang*, and Ming Wu, “Corrosion resistance improvement of multi-principal element alloy by tailored structure with heterogeneous grains”, *J. Mater. Res. Tech.*, vol. 23, 2023, pp. 5301-5309.
420. Wenfeng Yu, Xinyi Liu, Wanpeng Li, Wenyu Chen, Xinghao Du, Tzu-Hsiu Chou, Xu Wang and J.C. Huang “Improvement of the corrosion performance of a cold-rolled $\text{Co}_{40}\text{Cr}_{20}\text{Ni}_{30}\text{Al}_5\text{Ti}_5$ high-entropy alloy by adjusting annealing treatments”, *J. Mater. Res. Tech.*, vol. 24, 2023, pp. 3984-3995.
421. Xinyi Liu, Ming Wu, Xu Wang, Ke Gong, Jin Du, Jacob C. Huang and Min Hu “Stress corrosion cracking behavior of X80 steel under the combined effects of sulfide and cathodic potential”, *J. Mater. Res. Tech.*, vol. 24, 2023, pp. 3925-39356.
422. X. K. Zhang*, J. Yan, Y. H. Chen, R. Kevorkyants, T. Q. Wen, X. Sun, A. Hu, and J. C. Huang*, “Effects of lattice distortion and chemical short-range ordering on the incipient behavior of Ti-based multi-principal element alloy: MD simulations and DFT calculations”, *Int. J. Plasticity*, vol. 166, 2023, pp. 103643 (1-29).
423. K. X. Yin, G. Y. Dong, G. J. Zhang, Q. W. Tian, Y. N. Wang, and J. C. Huang, “Prediction of phase structures of solid solutions for high entropy alloys”, *J. Mater. Res. Tech.*, vol. 24, 2023, pp. 7654-7665.
424. Y. H. Chen, W. Y. Chen, Y. S. Lin, C. H. Chen, Rui Zhou, T. H. Chou, W. P. Li, X. Wang, S. C. Chen, and C. Y. Chen, Y. T. Zhu, and J. C. Huang*, “In-vitro and in-vivo bio-corrosion and biocompatibility responses of bioactive TiTaNb films with various Ta contents on $\text{Ti}_6\text{Al}_4\text{V}$ implants”, *J. Mater. Res. Tech.*, vol. 25, 2023, pp. 3808-3818.
425. Hao Jie Kong, Tao Yang, Rong Chen, Zengbao Jiao, Tianlong Zhang, Boxuan Cao, Junhua Luan, Shaofei Liu, Anding Wang, Jacob Chih-Ching Huang, Xun-Li Wang, and Chain Tsuan Liu, “Design of ultra-strong but ductile iron-based alloys with low supersaturations”, *Acta Mater.*, vol. 256, 2023, pp. 119000 (1-17).
426. Po-Sung Chen, Pei-Hua Tsai, Tsung-Hsiung Li, Jason Shian-Ching Jang, Jacob Chih-Ching Huang, Che-Hsin Lin, Cheng-Tang Pan and Hsuan-Kai Lin, “Development and Fabrication of Biocompatible Ti-Based BulkMetallic Glass Matrix Composites for Additive Manufacturing”, *Materials*, vol.16, 2023, pp. 5935 (1-13).
427. M.C. Yang, X.H. Du*, C.X. Shi, W.P. Li, J.Y. Zhang, R.F. Zu, S. Yuan, T.H. Chou, J.C. Huang**, G.S. Duan, B.L. Wu***, J. Sun, “Ultra-fine grained structure and high-content precipitates enable ultrastrong yet strain-hardenable medium-entropy alloy”, *J. Mater. Res. Tech.*, vol.27, 2023, pp. 2868–2873.
428. Xinyi Liu, Ming Wu, Xu Wang, Ke Gong, Jin Du, Dongxu Sun, and Jacob C. Huang, “Stress corrosion cracking behavior on carbon steel under the synergistic effects of chloride and bicarbonate ions in alternating wet-dry environment”, *Corrosion Science*, vol. 225, 2023, pp. 111624 (1-17).
429. Jinyan He, Yan Ma, Hongxin Li, Shizhou Ma, Xinggao Zhang, Fuping Yuan, Jacob Chih-Ching Huang, “Plastic deformation capacity obtained by the process of strain delocalization in $\text{Hf}_0.5\text{Nb}_0.5\text{Ta}_0.5\text{Ti}_1.5\text{Zr}$ multi-principal element alloy”, *Intermetallics*, vol. 164, 2024, pp. 108119 (1-8).
430. Jing Huang, Wanpeng Li, Tao Yang, Tzu-Hsiu Chou, Rui Zhou, Bin Liu, Jacob C. Huang,

Yong Liu, "An additively manufactured precipitation hardening medium entropy alloy with excellent strength-ductility synergy over a wide temperature range", Journal of Materials Science & Technology, vol. 197, 2024, pp. 247-264.

431. Xingcheng Qiu, Xinyi Liu, Xu Wang, Jacob C. Huang, Wenfeng Yu, Te Wang, Xinduo Pan, and Jiaming Meng, "Effect of annealing treatment on the mechanical properties and corrosion behavior of Co40Cr20Ni30Al4.5Ti5Mo0.5 high-entropy alloy", Maters. Today Comm., vol. 40, 2024, pp. 109702 (1-16).
432. T. H. Chou, W. P. Li, L. Y. Zhu, J. Huang, F. Zhu, X. C. Li, W. Y. Chen, R. Zhou, J. H. Luan, Y. L. Zhao, Z. X. Wu, F. R. Chen, J. C. Huang, P. K. Liaw, X. L. Wang, T. Yang, "Unveiling critical impacts of thermodynamic instability and short-range order on deformation mechanisms of VCoNi medium-entropy alloy", Acta Mater., vol. 227, 2024, pp. 120190 (1-17).
433. Xinyi Liu, Ming Wu, Ke Gong, Dongxu Sun, Xu Wang, Jin Li, Jin Du, Jacob C. Huang, "Observations of stress corrosion cracking in pipeline steel in corrosive seawater environment including detailed observation of the crack initiation mechanism", Journal of Electroanalytical Chemistry, vol. 975, 2024, pp. 118743 (1-15).
434. Xinduo Pan, Zhipeng Dong, Xinyi Liu, Xingcheng Qiu, Wanpeng Li, Jin Li, Xu Wang, Jacob C. Huang, "Effect of grain boundary precipitation on corrosion behaviour of nonisothermally aged Al-Zn-Mg-Cu alloys", Materials Today Communications, vol. 41, 2024, pp. 110894.
435. T. H. Chou, W. P. Li, L. Y. Zhu, F. Zhu, X. C. Li, J. Huang, Y. X. Wang, R. Zhou, W. Y. Chen, J. H. Luan, Y. L. Zhao, Z. X. Wu, F. R. Chen*, J. C. Huang, P. K. Liaw, X. L. Wang, T. Yang, "Corrigendum to "Critical impacts of thermodynamic instability and short-range order on deformation mechanisms of VCoNi medium-entropy alloy [Acta Materialia 277 (2024) 120190]", Acta Mater., vol. 282, 2025, pp. 120490 (1-2).
436. J. Y. Wang, B. S. Li, M. C. Chou, and J. C. Huang*, "Effects of nanoindentation tip radius on the first dislocation pop-in behavior in 4H SiC single crystal", J. American Ceramic Society, vol. 108, 2025, pp. e20251 (1-15).
437. Xingcheng Qiu, Xinyi Liu, Xinduo Pan, Jin Li, Ming Wu, Wanpeng Li*, Qiang Gong, Xu Wang*, Jacob C. Huang*, "Corrosion and tensile performance of a Co40Cr20Ni30Al4.5Ti5Mo0.5 high-entropy alloy under high temperature and pressure CO₂ enviroment", J. Alloys Comp., vol. 1036, 2025, pp. 181905 (1-21).

(B) Conference Papers

(i) International Conference Papers

1. J. C. Huang and A. J. Ardell, "Microstructural Evolution in Two Al-Li-Cu Alloys", *Aluminium Lithium Alloys III*, Inst. of Metals, London, 1986, p. 455.
2. J. C. Huang and A. J. Ardell, "Strengthening Mechanisms in Two Al-Li-Cu Alloys", *Aluminium Technology '86*, Inst. of Metals, London, 1986, p. 434.
3. S. S. Lee, C. S. Galovich, K. P. Fuchs, D. L. Kwong, J.-P. Hirvonen and J. C. Huang, "Optimization of a TiN/TiSi₂ p⁺ Diffusion Barrier Process", *Materials Research Society Symposium Proceeding*, Vol. 146, Materials Research Society, Boston, 1989, p. 217.
4. H. P. Pu, S. H. Yen, J. C. Huang, and P. W. Kao, "Evaluation on Superplasticity in Al-Li and Al-Zn-Mg Base Alloys", *Proc. International Conference on Superplasticity in Advanced Materials (ICSAM-91)*, Osaka, Japan, 1991, p. 429.
5. J. C. Huang and Y-S Lo, "Dynamic Shock-Loading Deformation in Al-Li Based Alloys and Composites", *Aluminium Lithium Alloys VI*, Garmisch- Partenkirchen, Germany, 1992, p. 283.
6. J. C. Huang, "Identification of the T₁ Phase in Al-Li-Cu Alloys Using Hexagonal and Monoclinic Structure Models", *Asia-Pacific Electron Microscopy (5APEM)*, Beijing, PRC, 1992, p. 330.
7. T.-R. Chen, H. P. Pu, J. C. Huang, and H. C. Shih, "The Forming Behavior in Superplastic 8090 Aluminum Alloys", *IRC'92: Fabrication, Properties, and Applications of Advanced Materials*, Birmingham, England, 1992, p. 1019.
8. J. C. Huang, C. S. Liauo, H. Chang, and P.W. Kao, "Microstructural Characterization of AC8A/Al₂O₃ Composites after Long Exposure at 150-350°C", in 'High Performance Metal and Ceramic Composites', High Performance Metal and Ceramic Matrix Composites, in association with TMS 1994 Anuual Meeting, San Francisco, USA, 1994, p. 183.
9. H.-P. Pu and J. C. Huang, "On the Deformation Mechanisms of Low-Temperature Superplasticity in Al-Li Alloys", *Superplasticity and Superplastic Forming*, in association with TMS 1995 Annual Meeting, TMS, 1995, p. 33.
10. T.-R. Chen and J. C. Huang, "Hemisphere Free-Bulging Behavior of Superplastic 8090 Al-Li Sheets during Low-Strain Regime", *Superplasticity and Superplastic Forming*, in association with TMS 1995 Annual Meeting, TMS, 1995, p. 205.
11. J. C. Huang, "The Response of Aluminium Matrix Composites Subjected to Quasi-Static and High-Rate Loading", *Inorganic Matrix Composites*, Materials Research Society, Bagalore, India, 1995.
12. H. C. Fu, J. C. Huang, C. C. Bampton, and T. D. Wang, "Superplasticity Behavior of Super α_2 Ti₃Al Intermetallic Compound", *Proc. International Conference on Advanced Materials*, Beijing, China, 1996, p. 387.
13. J. C. Huang, "On the Concept of Low-Temperature and/or High-Rate Superplasticity in Aluminium Alloys and Composites", *Symposium on Metal-Ceramic Composite Structures*, ROC-Austrian Scientific Collaboration Symposium, Vienna, Austria, 1997, p. 144.
14. B. Y. Lou, J. C. Huang, and H. P. Pu, "Processing Development and Property Characterization for Aluminum Alloys or Composites Exhibiting Low-Temperature or High-Rate Superplasticity", *Proceeding of THERMEC '97*, Wollongong, Australia, 1997, p. 1853.

15. S. W. Su, I. C. Hsiao, and J. C. Huang, "Texture Evolution during Low Temperature Superplasticity in 5083 and 5052 Al-Mg Alloys", MRS Symposium Proceeding, Vol. 601, Boston, USA, 2000, p. 49.
16. T. D. Wang and J. C. Huang, "Thermomechanical Treatment in Processing High Strain Rate Superplastic 6061 Al with 1% SiO₂ nano-Particles", THERMEC '2000, Las Vegas, US, 2000, p. 511.
17. I. C. Hsiao and J. C. Huang, "Deformation Mechanisms during Low Temperature Superplasticity in 5083 Al-Mg Alloy", Proc. PRICM, Hawaii, USA, 2001, pp. 1987-1990.
18. H. K. Lin, S. F. Su, and J. C. Huang, "Superplasticity and Welding Behavior in Four Mg-Al-Zn Base Alloy", Proc. PRICM, Hawaii, USA, 2001, pp. 1251-1254.
19. H. K. Lin and J. C. Huang, "Low Temperature Superplastic AZ91D Mg Alloys Using Simple High-Extrusion Ratio Extrusion Method", Proc. AEPA 2002, Sydney, 2002, pp. 881-886.
20. K. L. Yang and J. C. Huang, "Stress-Induced Phase Transformation in Super α_2 Ti₃Al Based Alloy Deformed at 700-900°C", Proc. AEPA 2002, Sydney, 2002, pp. 875-880.
21. C. J. Li, H. K. Lin, Y. N. Wang, and J. C. Huang, "Effects of Extrusion Parameters on High Strain Rate and Low Temperature Superplasticity of AZ Series Mg Base Alloys", Proc. Thermec'2003, Madrid, 2003, pp. 2655-2660.
22. C. C. Huang and J. C. Huang, "Superplasticity in Fine-grained AZ31 Mg Tubes", Proc. AEPA'04, Shanghai, 2004.
23. K. L. Yang and J. C. Huang, "Texture Evolution during LTSP and Its Anisotropy Behavior in Super α_2 Ti₃Al Alloy", Proc. AEPA'04, Shanghai, 2004.
24. Y. N. Wang and J. C. Huang, "Two-Stage Superplastic Deformation in AZ61 Mg Alloy", Proc. AEPA'04, Shanghai, 2004.
25. L. R. Chang, Y. W. Chen, T. H. Hung, J. S. C. Jang, and J. C. Huang, "Glass Formability in Zr-Al-Cu-Ni Alloys added with B and Si", Proc. 11th International Symposium on Metaable, Mechanically Aloyed and Nanocyrstalline Materials, Sendai, Japan, 2004, p. 130.
26. T. H. Hung, J. S. C. Jang, and J. C. Huang, "Characterization and Analysis on the Crystallization Behavior in Zr-Al-Cu-Ni-B-Si Alloys", Proc. 11th International Symposium on Metaable, Mechanically Aloyed and Nanocyrstalline Materials, Sendai, Japan, 2004, p. 299.
27. J. C. Huang, "Research on Magnesium Based Amorphous/Nanocrystalline Alloys and Composites", Proc. Yellow-Sea Rim Mg Workshop, Kumamoto, Japan, 2005, p. 28.
28. J. C. Huang , C. J. Lee, C. H. Chuang, P. L. Hsieh, and C. I. Chang, "Preparing multi-component hard materials through severe plastic deformation", Proc. TMS annual meeting, Special TMS pub book: Ultrafine Grained materials V, San Antonia, TX, USA, 2006, pp. 131-138.
29. K. L. Yang and J. C. Huang, "Low Temperature Superplasticity of Dual Phase Ti₃Al Based Alloys", Proc. 2006 American Physics Society (APS) March Meeting, Baltimore, USA, 2006, p. J1-14.
30. K. L. Yang and J. C. Huang, "Texture and Microstructure Evolution during Superplastic Straining in Dual Phase Ti₃Al Based Alloys", Proc. Asia Pacific Symposium on Advances in Engineering Plasticity and Its Applications (AEPA), Nagoya, Japan, 2006, pp. 71-76.
31. J. C. Huang, J. S. C. Jang, and Y. C. A. Tsao, "Progress on High Performance Mg Based Alloys and Composites", Proc. 20th Workshop on High Performance Mg Alloys,

- Kumamoto, Japan, 2007, pp. 29-33.
32. C. T. Pan, W. J. Wang, Y. C. Chang, and J. C. Huang, "Simulation and Experimental Study of Nanoimprint Mg-Based Amorphous Alloy", NanoChina, Beijing, 2007, p. 70.
 33. X. H. Du, J. C. Huang, K. C. Hsieh, J. S. C. Jang, and P. K. Liaw, "Mechanical properties of Zr-Based Two-Glassy Phase Bulk Metallic Glass", Proc. TMS Annual Meeting, March, 2008.
 34. M. Freels, Y. Wang, J.S.C. Jang, K.C. Hsieh, X.H. Du, J.C. Huang, and P.K. Liaw, "Microstructure Investigation of a Zr-Based Bulk Metallic Glass", Proc. TMS Annual Meeting, March, 2008.
 35. J. S. C. Jang, C. C. Tseng, Y. C. Yeh, J. L. Jou, and J. C. Huang, "Thermoplastic Forming Properties and Microreplication Ability of an Mg-Base Bulk Metallic Glass", Proc. TMS Annual Meeting, March, 2008.
 36. Y. C. Lo, J. C. Huang, J. P. Ju, J. R. Morris, and P. K. Liaw, "Molecular Dynamics Simulations of Fatigue Damage in Binary Zr-Cu Metallic Glass", Proc. BMG-VI, Xian, China, 2008.
 37. Y. C. Chang, J. C. Huang, C. W. Tang, C. I. Chang, J. S. C. Jang, "Viscous Flow Behavior and Workability of Mg-Cu-(Ag)-Gd Bulk Metallic Glasses", Proc. BMG-VI, Xian, China, 2008.
 38. C. J. Lee, Y. H. Lai, C. I. Chang, T.H. Sung, J. C. Huang, T. G. Nieh, "Specimen size effects in Zr, Mg and Au based glassy micro-pillars", Proc. BMG-VI, Xian, China, 2008.
 39. X. H. Du, J. C. Huang, K. C. Hsieh, J. S. C. Jang, and P. K. Liaw, "On the Toughening of Bulk Metallic Glasses", Proc. BMG-VI, Xian, China, 2008.
 40. J. S. C. Jang and J. C. Huang, "Thermal Plastic Deformation Behaviour of A Zr-base Bulk Metallic Glasses, Proc. BMG-VI, Xian, China, 2008.
 41. H. S. Chou, J. C. Huang, and T. G. Nieh, "Phase Transformation and Nano-Indentation Response in Zr-Cu-Ti Thin Films", Proc. Adv Intermetallics, Harbin, China, 2008.
 42. M. C. Liu, J. C. Huang, Y. H. Lai, H. S. Chou, X. H. Du, and T. G. Nieh, "Microscale Deformation Behavior of Amorphous/Nanocrystalline Multilayered Pillars", Proc. Thermec'2009, Berlin, Germany, 2009.
 43. T. H. Sung¹, J. C. Huang¹ and S. R. Jain, "Mechanical and Optoelectronic Response of GaN Micropillars under Uniaxial Microcompression", Proc. Thermec'2009, Berlin, Germany, 2009.
 44. K. C. Hsieh, M.C. Yeh and J. C. Huang, J. S. C. Jang, Y. A. Chang, "Experimental Investigation and Thermodynamic Calculation of Zr-Cu-Ni-Al Phase Equilibria including Two-liquid Miscibility Phase Reaction", Proc. Thermec'2009, Berlin, Germany, 2009.
 45. Z. W. Hsiao, P. H. Tsai, T. H. Li, J. S. C. Jang, S. R. Jian, and J. C. Huang, "Effect of Nano-Crystallization on the Mechanical Porperties of the (Zr₅₃Cu₃₀Ni₉Al₈)_{99.5}Si_{0.5} Bulk Metallic Glass", Proc. Thermec'2009, Berlin, Germany, 2009.
 46. I. S. Huang, T. H. Li, I. S. Lee, J. S. C. Jang, J. C. Huang, and K. C. Hsieh, "Crystallization Behavior and Thermal Stability of Two-Glassy Pgase Zr-Based Bulk Metallic Glasses", Proc. Thermec'2009, Berlin, Germany, 2009.
 47. J. C. Huang, H. M. Chen, Y. H. Lai, C. J. Lee, S. X. Song, and T. G. Nieh, "Size Effect of Shear Band Propagation Speed in Metallic Glasses", Proc. ISMANAM, Beijing, 2009.
 48. C. J. Lee, Y. H. Lai, C. W. Tang, J. C. Huang, and J. S. C. Jang, "Mechanical behavior of Au-based metallic glass in micro-scale at ambient and elevated temperature", Proc. ISMANAM, Beijing, 2009.

49. J. C. Huang, Y.C. Lo, M. C. Liu, S.P. Ju, J.R. Morris, P.K. Liaw, and T. G. Nieh, "Ductile Behavior in Small-Scale Zr-Cu Metallic Glass during Monotonic and Cyclic Loading", International Conference on Advanced High-Temperature and High-Strength Structural Materials, Hong Kong, 2009.
50. J.C. Huang*, Y.C. Lo, H.S. Chou, Y.T. Cheng, S.P. Ju, J.R. Morris, and P.K. Liaw "Structural relaxation and self-repair behavior in binary Zr-Cu metallic glass during cyclic loading: molecular dynamics simulations", Bulk Metallic Glasses VII, Pusan, Korea, 2009.
51. H. M. Chen, J. C. Huang, J. S. C. Jang, S. X. Song, and T. G. Nieh, "Flow serration and shear-band propagation in porous Mo particles reinforced Mg-based bulk metallic glass composites", Bulk Metallic Glasses VII, Pusan, Korea, 2009.
52. Y. H. Lai, J. C. Huang, and J. S. C. Jang, "Strain burst speeds in metallic glass micropillars", Bulk Metallic Glasses VII, Pusan, Korea, 2009.
53. C. J. Lee, Y. H. Lai, J.C. Huang, and T. G. Nieh, "On the relationship between processing defects and Weibull statistics for metallic glassy micro-pillars", Bulk Metallic Glasses VII, Pusan, Korea, 2009.
54. S. Y. Sun and J. C. Huang, "Improved Mechanical Behavior of Mg-Li-Cu-Gd(Y) Metallic Glass", Bulk Metallic Glasses VII, Pusan, Korea, 2009.
55. J. C. Huang*, T. H. Hung, H. M. Chen, C. J. Lee, and J. S. C. Jang, "Recent progress on Mg based metallic glasses and composites", 4th Pan Yellow Rim International Symposium on Mg Alloys, Kumamoto, Japan, 2009.
56. C. J. Lee, J. C. Huang*, and T. G. Nieh, "Sample size effect and micro-compression of Mg₆₅Cu₂₅Gd₁₀ metallic glass", 4th Pan Yellow Rim International Symposium on Mg Alloys, Kumamoto, Japan, 2009.
57. Y. H. Lai, B. Y. Chen, H. S. Chou, J. C. Huang*, "Hard coating on magnesium alloy by metallic glass sputtered film", 4th Pan Yellow Rim International Symposium on Mg Alloys, Kumamoto, Japan, 2009.
58. H. M. Chen, J. C. Huang *, and J. S. C. Jang, "Flow serration and shear-band propagation in the porous Mo particles reinforced Mg-based bulk metallic glass composites", 4th Pan Yellow Rim International Symposium on Mg Alloys, Kumamoto, Japan, 2009.
59. J. C. Huang, "Nano-scale multilayer thin-film metallic glassy composite", Proc. Cross-Strain Composite Workshop, Harbin, China, Jan. 19-23, 2010, p. 12.
60. J. C. Huang, "Multilayered thin film metallic glasses and composites", Proc. International Workshop on Metallic glasses, Xiamen, China, March 10-13, 2010.
61. C.N. Kuo, H.M. Chen, X.H. Du, and J.C. Huang, "Flow serrations and fracture morphologies of Cu-based bulk metallic glasses", Proc. International Conference on Mechanical Properties of Materials (ICMPM), Hangzhou, China, May 24-28, 2010.
62. S. Y. Guan, X. H. Du, H. S. Chou, M. C. Liu, and J. C. Huang, "Mechanical properties of the amorphous/amorphous nano multilayered thin film metallic glasses", Proc. International Conference on Mechanical Properties of Materials (ICMPM), Hangzhou, China, May 24-28, 2010.
63. S. Y. Guan, X. H. Du, H. S. Chou, M. C. Liu, and J. C. Huang, "Micromechanical response for the amorphous/amorphous nanolaminates", Proc. ISMANAM, Zurich, Switzerland, July 4 - 9, 2010.
64. H. S. Chou, J. C. Huang , and L. W. Chang, "Effect of immiscible tantalum on micro-mechanical response of Zr-Cu-Ti-Ta thin film metallic glasses", Proc. ISMANAM,

- Zurich, Switzerland, July 4 - 9, 2010.
65. M. C. Liu, I. C. Lin, Y. H. Lai, and J. C. Huang, "Homogeneous deformation on ZrCu/Cu multilayered thin films", Proc. ISMANAM, Zurich, Switzerland, July 4 - 9, 2010.
 66. H. K. Lin, C. J. Lee, T. T. Hu, C. H. Li, and J. C. Huang, "Laser micromachining in Mg-Cu-Gd bulk metallic glass by pulsed lasers", The 12th International Symposium on Laser Precision Microfabrication, Takamatsu, Kagawa, Japan, June 7-10, 2011.
 67. T. H. Sung, J. C. Huang, and S. R. Jain, "Mechanical Response of Single Crystal (0001) ZnO and Micropillar under Nanoindentation", Proc. ISMANAM, Spain, June 20-25, 2011.
 68. Z. Chang, J. B. Lee, Jason S. C. Jang, S. R. Jian, J. C. Huang, and T. G. Nieh, "Viscous Flow and Thermoplastic forming Ability of a ZrCu-Base Bulk Metallic Glass Composite with Ta Dispersoid", Proc. ISMANAM, Spain, June 20-25, 2011.
 69. C.N. Kuo, X.H. Du, and J.C. Huang, "Mechanical Response of Phase Separated Cu-V-Zr-Al Metallic Glasses Alloys", Proc. ISMANAM, Spain, June 20-25, 2011.
 70. J. C. Huang, "On multilayerd metallic glasses", Proc. IU-MRS, Taipei, Sep 19-22, 2011.
 71. T.G. Nieh, S.X. Song, and J.C. Huang, "Shear band propagation in Zr-based metallic glass and its implications", Proc. IU-MRS, Taipei, Sep 19-22, 2011.
 72. M. C. Liu, J. C. Huang*, X. H. Du, Y. T. Fong, S. P. Ju, and T. G. Nieh, "Mechanical behavior of ZrCu/Zr micropillars with inclined interface", Prof. BMG-9, Xiamen, China, Dec 16-21, 2012.
 73. C. J. Lee, H. K. Lin, T. T. Hu and J. C. Huang, "Application of indium tin oxide/metallic glass bi-layer films as transparent electrodes deposited on PET substrate", Prof. BMG-9, Xiamen, China, Dec 16-21, 2012.
 74. Y. H. Chen, H. J. Pei, T. H. Sung, H. C. Chen, J. C. Huang, L. Wang, and T. G. Nieh, "Effect of residual stresses on the indentation creep behavior of Zr-based bulk metallic glasses", Prof. BMG-9, Xiamen, China, Dec 16-21, 2012.
 75. J. B. Li, H. C. Lin, P. H. Tsai, J. W. Chiou, Y. H. Chang, J. S. C. Jang, J. C. Huang, and C. H. Hsueh, "Shear fracture with controlled normal/shear loading in Zr-based Bulk Metallic Glasses and Composites", Prof. BMG-9, Xiamen, China, Dec 16-21, 2012.
 76. J. Y Tseng, J. B. Li , A. J. Hsiau, P. H. Tsai, K. T. Hsu, J. S. C. Jang, J. C. Huang, and T. G. Nieh, "Enhanced plasticity of Iron Based Bulk Metallic Glass Composites with Tantalum Particles Dispersion", Prof. BMG-9, Xiamen, China, Dec 16-21, 2012.
 77. Z.H. Liu, C.T. Pan, L.W. Lin, H.W. Li, Z.Y. Ou, and J.C. Huang, "Mechanical Properties of Piezoelectric PVDF/MWCNT Fibers Prepared by Flat/Hollow Cylindrical Near-Field Electrospinning Process", IEEE-NEMS 2013 conference, Suzhou, China, April 7-10, 2013.
 78. P.H. Lin, C.T. Pan*, Y.C. Chen, F.T. Hsu, P.H. Lin, J.C. Huang, C.M. Chang, S. C. Shen, "Design and fabrication of lens selectively coated with TFMG for uniform intensity of UV LED", IEEE-NEMS 2014 conference, Hawaii, USA, April, 2014.
 79. J. C. Huang, S. Y. Kuan, Y. H. Chen, C. H. Chang, and T. G. Nieh, "Performance and application of monolithic and multilayered metallic glass films", submitted to BMG-10, Shanghai, June, 2014.
 80. Y. H. Chen, C. N. Kuo, C. C. Kuo, Y. J. Chen, and J. C. Huang, "Size effects on mechanical response of open-cell porous metallic glasses", submitted to BMG-10, Shanghai, June, 2014.
 81. Che-Min Chang, Chun-Hsiung Wang, Jui-Hung Hsu, and J. C. Huang, "Al-based metallic

- glass films with high and fixed optical reflectance characteristics”, submitted to BMG-10, Shanghai, June, 2014.
82. H. C. Chen, J. C. Huang, and T. H. Sung, “The mechanical characteristics of ZnO wafers loaded along three orientations”, submitted to IUMRS-IECM/MRS-T, Taipei, June, 2014.
 83. Che-Min Chang, Chun-Hsiung Wang, Jui-Hung Hsu, and J. C. Huang, “Al-Ni-Y-based metallic glass/nanocrystalline composite films for optical reflector applications”, submitted to IUMRS-IECM/MRS-T, Taipei, June, 2014.
 84. J. C. Huang*, M. C. Liu, S. Y. Kuan, T. G. Nieh, “Interfacial responses of metallic-glass/nanocrystalline-metal multilayered thin films and implications”, submitted to Gordon Research Conference, Hong Kong, June, 2014.
 85. T. Y. Wu¹, J. B. Li², J. C. Huang*, “Mechanical response of nanoporous pure Ag”, submitted to International Conference on Machining, Materials and Mechanical Technology, Taipei, August, 2014.

(ii) Local Conference Papers

1. J. C. Huang, "Dynamic Deformation of Ti-6Al-4V Thin Sheets reinforced with B₄C-coated B Fibers", Proc. 1990 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Hsinchu, 1990, vol. 2, p. 971.
2. J. C. Huang, "TEM Study of Shock-Induced Substructure in Metallic Material Systems", Proc. 11th ROC Symposium on Electron Microscopy, Chinese Society of Electron Microscopy, Taipei, 1990, p. 74.
3. J. C. Huang, "The Determination of Dislocation Loop Character in Shock-Loaded High-Purity Aluminum", Proc. 11th ROC Symposium on Electron Microscopy, Chinese Society of Electron Microscopy, Taipei, 1990, p. 76.
4. J. C. Huang, "Refinement of Crystal Structure of T1 Precipitates in Al-Li-Cu Alloys by Using Simulated TEM Diffraction Patterns", Proc. 11th ROC Symposium on Electron Microscopy, Chinese Society of Electron Microscopy, Taipei, 1990, p. 78.
5. J. C. Huang, "Dynamic Shock-Loading Deformation and Strain Rate Dependence in Al-Li Based Alloys", Proc. 1991 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials, Tainan, 1991, p. 128.
6. Y-S Lo and J. C. Huang, "Mechanical Response and Microstructural Evolution of 7091Al/B₄C_(p) and Al-Li/Al₂O_{3(f)} Composites under Dynamic Shock and Quasi-Static Loading", Proc. 1991 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials, Tainan, 1991, p. 626.
7. H.-P. Pu, S-H Yen, J. C. Huang and P-W Kao, "Evaluation on Superplasticity in Al-Li and Al-Zn-Mg Alloys", Proc. 1991 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials, Tainan, 1991, p. 126.
8. S-H Yen, H-P Pu, J. C. Huang and P-W Kao, "Optimization of Superplastic Forming Characteristics in Al-Li and Al-Zn-Mg Alloys Using Thermomechanical Treatments", Proc. 1991 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials, Tainan, 1991, p. 124.
9. Y-S Lo and J. C. Huang, "Interfacial Reaction Characterization in Aluminum Base Composites", Proc. 1992 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials, Taipei, 1992, p. 506.
10. H. P. Pu and J. C. Huang, "New Findings in Superplasticity of 8090 and 7475 Aluminum Alloys", Proc. 1992 Annual Conf. of Chinese Society for Materials Science, Chinese

- Society for Materials, Taipei, 1992, p. 70.
- 11. T. R. Chen and J. C. Huang, "Superplastic Forming Characterization in 8090 Aluminum-Lithium Alloys", Proc. 1992 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials, Taipei, 1992, p. 56.
 - 12. L. Wei and J. C. Huang, "Fracture Toughness Studies in Aluminum Base Composites", Proc. 1992 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials, Taipei, 1992, p. 494.
 - 13. H.-P. Pu and J. C. Huang, "Superplastic Behavior of 8090 Al-Li Alloys at 350-450 °C", Proc. 1993 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials, Hsinchu, 1993, p. 1-85.
 - 14. T-R Chen and J. C. Huang, "Superplasticity Analysis of 8090 Al-Li Sheets during Free Bulging", Proc. 1993 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials, Hsinchu, 1993, p. 1-83.
 - 15. C. S. Liau and J. C. Huang, "Microstructural Characterization of AC8A/Al₂O₃ Composites Long Exposed at 150-350 °C", Proc. 1993 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials, Hsinchu, 1993, p. 5-51.
 - 16. Y. D. Shen and J. C. Huang, N. J. Ho and J. S. Ku, "Characterization of Electron Beam Welding of 8090 Al-Li Alloys", Proc. 1993 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials, Hsinchu, 1993, p. 1-159.
 - 17. S. J. Lo, K. C. Tsai, Y. C. Wu, and J. C. Huang, "Microstructure and Tensile Properties of Oxide Dispersion Strengthened Mechanically Alloy MA 754", Proc. 1993 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials, Hsinchu, 1993, p. 1-185.
 - 18. Y. D. Shen and J. C. Huang, N. J. Ho and M.F. Lee, "Electron Beam Welding in 8090 Al-Li-Cu-Mg Thin Sheets", Proc. 1993 Annual Meeting of Chinese Welding Society, Chinese Welding Society, Tainan, 1993, p. 29.
 - 19. C. S. Liau and J. C. Huang, "On the B-Type Bulk Phase in AC8A/Al₂O₃ Short-Fiber Composites Long Exposed at 150-350 °C", Proc. 14th ROC Symposium on Electron Microscopy, Chinese Society of Electron Microscopy, Nangung, 1993, p. 53.
 - 20. H.-P. Pu and J. C. Huang, "Analyses of Superplastic Deformation Mechanisms in 8090 Al-Li Alloys at Low and High Temperatures", Proc. 1994 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Kaohsiung, 1994, p. 484.
 - 21. H.-P. Pu and J. C. Huang, "Diffusion Bonding in Superplastic 8090 Al-Li Alloys", Proc. 1994 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Kaohsiung, 1994, p. 600.
 - 22. F. C. Liu, H-P Pu, J. C. Huang, "Microstructural Characterization of Low-Temperature Superplasticity in 8090 Al-Li Alloys", Proc. 1994 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Kaohsiung, 1994, p. 488.
 - 23. T-R Chen and J. C. Huang, "Effects of Reverse Bulging and Two-Stage Bulging on the Superplastic Behavior of Aluminum-Lithium Alloy Sheets", Proc. 1994 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Kaohsiung, 1994, p. 492.
 - 24. B. Y. Lou and J. C. Huang, "Characterization of Failure Mechanisms of 6061 or 2014/Al₂O_{3(p)} Composites as a Function of Loading Rate", Proc. 1994 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Kaohsiung,

- 1994, p. 540.
- 25. M. F. Lee, J. C. Huang, N. J. Ho, G. S. Go, and S. C. Chen, "Laser Welding in Superplastic 8090 Al-Li Alloys", Proc. 1994 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Kaohsiung, 1994, p. 602.
 - 26. S. C. Chen, J. C. Huang, Y. D. Shen, and M. F. Lee, "Electron-Beam and Laser-Beam Welding of Aircraft-Used Al-Li Alloys", Proc. 1st Annual Conf. on Military Fundamental Research, Gunshan, Kaohsiung, 1994, p. 347.
 - 27. S. C. Chen, J. C. Huang, M. F. Lee, "Shear-lap Electron-Beam and Laser-Beam Welding of Aircraft-Used Al-Li Alloys", Proc. 1st Annual Conf. on Ministry Fundamental Research, Gunshan, Kaohsiung, 1994, p. 400.
 - 28. H. P. Pu and J. C. Huang, "Deformation Mechanism of Low-Temperature Superplasticity over Strain Level of 0-1.0 in 8090 Al-Li Alloy", Proc. 1995 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taichung, 1995, p. 88.
 - 29. T. R. Chen, G. C. Pung, and J. C. Huang, "Quench Sensitivity and Its Effects on Mechanical Properties of the 8090 Al-Li Superplastic Thin Sheets", Proc. 1995 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taichung, 1995, p. 82.
 - 30. S. C. Chen and J. C. Huang, "Lap-Shear Strength of Electron-Beam and Laser-Beam Welded Overlap Joints in 8090 Al-Li Alloy", Proc. 1995 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taichung, 1995, p. 98.
 - 31. H. C. Fu and J. C. Huang, "Superplasticity Behavior of Super- α_2 Ti₃Al Base Intermetallic Compound", Proc. 1995 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taichung, 1995, p. 84.
 - 32. B. Y. Lou, C. S. Liauo, and J. C. Huang, "Dynamic Fracture Behavior of Al₂O₃ Particulate and Short-Fiber Reinforced Aluminum Base Composites", Proc. 1995 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taichung, 1995, p. 316.
 - 33. S. C. Chen, and J. C. Huang, "Fasibility Study on Electron-Beam and Laser-Beam Welding of Aircraft-Used Al-Li Thick Plates", Proc. 3rd Annual Conf. on Ministry Fundamental Research, Gunshan, Kaohsiung, 1996, p. 125.
 - 34. C. S. Liauo, and J. C. Huang, "Effects of Temperature and Strain Rate on Mechanical Properties of Short-Fiber Reinforced Aluminum Base Composites", Proc. 1996 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 1996, p. 513.
 - 35. H. L. Lee, B. Y. Lou, and J. C. Huang, "High Temperature and High Rate Deformation of 6061/SiC Particulate Composites", Proc. 1996 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 1996, p. 477.
 - 36. T. D. Wang, H. C. Fu, and J. C. Huang, "Analysis of Superplasticity Characterisitc of α_2 mm thick Ti₃Al Base Intermetallic Compound", Proc. 1996 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 1996, p. 46.
 - 37. H. C. Fu, T. D. Wang, and J. C. Huang, "On the Variation of Superplastic Deformation Mechanisms in Super α_2 Ti₃Al Base Alloys", Proc. 1997 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, vol. A, 1997, p. 17.
 - 38. C. S. Liauo and J. C. Huang, " Deformation Mechanisms for AC8A/Al₂O₃(sf)

- Composites at 25-450 °C and 10^{-5} - 10^3 s⁻¹", Proc. 1997 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, vol. A, 1997, p. 77
39. T. R. Chen, J. C. Huang, and H. C. Shih, "Topographic Study on Grain Boundary Sliding Characteristics in Superplastic Blow Formed Specimens", Proc. 1997 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, vol. A, 1997, p. 117.
40. S. C. Chen and J. C. Huang, "Effects of Electron Beam Welding Power on Toughness of Aluminum Welds", Proc. 1997 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, vol. A, 1997, p. 129.
41. S. C. Chen and J. C. Huang, "Effects of Electron Beam Welding Speed on Microstructure and Mechanical Properties of Aluminum Welds", Proc. 1998 Annual Meeting of Chinese Welding Society, Chinese Welding Society, 1998, p. A13.
42. I. C. Shiao and J. C. Huang, "Development of Low Temperature Superplasticity in 5083 Al-Mg Alloys", Proc. 1998 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 1998, vol. C, p. 87.
43. B. Y. Lou, Y. F. Huang, J. R. Huang, T. D. Wang, and J. C. Huang, "Processing and Characterization of High Rate Superplasticity in 6061/SiC Aluminum Matrix Composites", Proc. 1998 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 1998, vol. C, p. 91.
44. C. S. Liau, H. C. Fu, and J. C. Huang, "On the β -Transus and Order/Disorder Transition Temperature in Superplastic Super α_2 Ti₃Al Base Alloy", Proc. 1998 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 1998, vol. C, p. 111.
45. B. Y. Lou, T. D. Wang, and J. C. Huang, "Optimization of Processing Routes for Aluminum Matrix Composites with High Strain Rate Superplasticity", Proc. 6th Annual Conf. on Ministry Fundamental Research, Gunshan, Kaohsiung, 1999, p. 79.
46. S. W. Su, J. C. Huang, and I. C. Hsiao, "Texture Evolution during Low Temperature Superplastic Deformation in 5083 and 5052 Al-Mg alloys Using EBSD", Proc. 6th Annual Conf. on Ministry Fundamental Research, Gunshan, Kaohsiung, 1999, p. 71.
47. B. Y. Lou, J. C. Huang, and T. D. Wang, "Fine-Grained Aluminum Alloys and Composites Loaded at Ultrahigh Temperatures near Solidus Point", Proc. 1999 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 1999, p. B-21.
48. S. W. Su, I. C. Hsiao, and J. C. Huang, "Evolution of Texture and Grain Misorientation during Low Temperature Superplasticity in Al-Mg alloy", Proc. 1999 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 1999, p. B-06.
49. T. D. Wang, I. C. Hsiao, K. L. Yang, H. K. Lin, and J. C. Huang, "Development of Low Temperature and High Strain Rate Superplasticity in Al and Mg Base Materials", Conference on Aeronautical and Mechanical Engineering Applications, Gunsian, Kaohsiung, 2000, p. B1-30.
50. S. C. Chen, R. Y. Huang, and J. C. Huang, "Welding Microstructures in 6061 alloys and 6061/SiC composites", Annual Meeting of Chinese Welding Society, Chinese Welding Society, 2000, p. 150.
51. I. C. Hsiao and J. C. Huang, "EBSD Characterization on Grain Boundaries in Fine-Grained Superplastic Al Alloys", Proc. 2000 Annual Conf. of Chinese Society for

- Materials Science, Chinese Society for Materials Science, Ksohsiuung, 2000, p. B-06.
52. T. D. Wang and J. C. Huang, "Development of High Strain Rate Superplasticity in 6061Al/1%Nano-SiO₂", Proc. 2000 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Ksohsiuung, 2000, p. B-05.
53. R. Y. Huang, S. C. Chen, and J. C. Huang, "High Energy Beam Welding Characteristics in 6061/SiC Aluminum Matrix Composites", Proc. 2000 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Ksohsiuung, 2000, p. B-25.
54. H. K. Lin and J. C. Huang, "Electron Beam Welding Characteristics in Four Mg-Al Base Materials as a Function of Al content", Proc. Annual Conf. on Minitery Fundamental Research, Gunshan, Kaohsiung, 2001, p. 25.
55. P. J. Hsieh and J. C. Huang, "Fabrication and Characterization on Multi-Element Alloys Made by Accumulative Roll Bonding Process", Proc. 2001 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taichung, 2001, p. P02-22.
56. I. C. Hsiao and J. C. Huang, "Deformation Mechanisms and Grain Boundary Sliding during Low Temperature Superplasticity in 5083 Al-Mg Alloy", Proc. 2001 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taichung, 2001, p. P02-23.
57. H. K. Lin, S. F. Su, and J. C. Huang, "On Superplasticity and Welding Behavior in Mg-Al-Zn Base Alloys", Proc. 2001 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taichung, 2001, p. P02-39.
58. T. D. Wang and J. C. Hunag, "Analysis on High Strain Rate Superplasticity in 6061Al/1%Nano SiO₂", Proc. 2001 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taichung, 2001, p. P02-39.
59. H. K. Lin and J. C. Huang, "Using Simple Extrusion to Fabricate Low Temperature and High Strain Rate Superplastic AZ31 and AZ91 Mg Alloys", Proc. Annual Conf. on Military Fundamental Research, Gunshan, Kaohsiung, 2002, p. B1-44.
60. K. L. Yang and J. C. Huang, "Microstructural Evolution of Super α_2 Ti₃Al Based Alloy during Superplastic Deformation at 700-900°C", Proc. Annual Conf. on Military Fundamental Research, Gunshan, Kaohsiung, 2002, p. BP-18.
61. H. K. Lin, C. J. Li, and J. C. Huang, "Low Temperature and High Strain Rate Superplasticity in AZ31 Mg Alloys", Proc. 2002 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2002, pp. OB18:1-4.
62. Y. N. Wang and J. C. Huang, "Texture Characteristics and Mechanical Anisotropy of AZ61 Mg Alloy", Proc. 2002 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2002, pp. OB17:1-4.
63. K. L. Yang, Y. N. Wang, and J. C. Huang, "Phase Transformation and Microstructure Evolution in SuperplasticTi-25Al-10Nb-2V-1Mo", Proc. 2002 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2002, pp. OB28:1-4.
64. P. J. Hsieh, Y. P. Hung, and J. C. Huang, "Amorphization of Binary Alloy Systems Made by Severe Accumulative Roll Bonding", Proc. 2002 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2002, pp. OB44:1-4.
65. M. C. Kuo, J. C. Huang, M. Chen, and M. H. Jen, "Fabrication of High performance Mg/Carbon-Fiber/PEEK Mg Based Laminated Composites", Proc. 2002 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei,

- 2002, pp. OI02:1-4.
66. P. J. Hsieh, Y. P. Hung, S. Y. Chiu, T. H. Hung, and J. C. Huang, "Nacrystallization and Vitrification Mechanisms in Zr-X Alloys during ARB process", Proc. 2003 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2003, p. OH-004.
 67. K. L. Yang, Y. N. Wang, and J. C. Huang, "Texture and Mechanical Anisotropy in Ti₃Al Alloy", Proc. 2003 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2003, p. PB-017.
 68. C. M. Tsai, M. C. Kuo, and J. C. Huang, Fabrication of PEEK Composites Reinforced by Nano-Sized SiO₂ and Al₂O₃", Proc. 2003 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2003, p. OF-002.
 69. C. C. Huang, J. C. Huang, and N. J. Ho, "Seedless Tube Extrusion and Resulting Superplasticity of AZ31 Mg Alloys", Proc. 2003 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2003, p. OB-003.
 70. C. J. Lee and J. C. Huang, "Cavitation Analysis on AZ31 Mg Sheets during Low Temperature and High Strain Rate Superplasticity", Proc. 2003 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2003, p. OB-004.
 71. H. H. Wu, Y. N. Wang, and J. C. Huang, "Texture Evolution during High Energy Electron Beam Welding", Proc. 2003 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2003, p. PB-016.
 72. C. Y. Chang, C. J. Lee, and J. C. Huang, "Refinement of Grain Size of AZ31 Mg alloy Based on Zener-Holloman Parameters Using Friction Stir Processing", Proc. 2004 Conf. Aeronautical and Mechanical Engineering, Gun-Shian, Kaihsiumg County, 2004, p. B1-9.
 73. C. C. Huang, J. C. Huang, and N. J. Ho, "Research and Development of Tube Hydroforming of Commercial AZ31 Mg alloys", Proc. 2004 Conf. Aeronautical and Mechanical Engineering, Gun-Shian, Kaihsiumg County, 2004, p. P-127.
 74. M. C. Kuo and J. C. Huang, "Bending Properties of Mg/Carbon-Fiber/PEEK Mg Based Laminated Composites", Proc. 2004 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 2004, p. PA3-36.
 75. C. C. Huang and J. C. Huang, N. J. Ho, "Tube Hydroforming of AZ31 Mg Tubes", Proc. 2004 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 2004, p. PA2-71.
 76. H. K. Lin and J. C. Huang, "Influence from Texture on the Low temperature Superplasticity of AZ31 Mg processed by ECAP and Extrusion", Proc. 2004 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 2004, p. PA2-12.
 77. C. I. Chang, C. J. Lee, and J. C. Huang, "Grain Refinement during Friction Stir Processing in AZ31 Mg Alloy", Proc. 2004 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 2004, p. PA2-45.
 78. Y. P. Hung, J. C. Huang, K. J. Wu, and A. C. Y. Tsao, "Using Spray Forming and Extrusion in Producing Mg Based Nano Composites", Proc. 2004 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 2004, p. PA3-38.
 79. T. H. Hung, J. C. Huang, and J. S. C. Jang, "Systematic Characterization of Crystallization Kinetics in Zr-Al-Cu-Ni-Si-B alloys under Isothermal and Non-isothermal

- Conditions”, Proc. 2004 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 2004, p. PA2-44.
80. J. C. Huang, J. S. C. Jang, and C. Y. A. Tsao, “Fabrication and Characterization of Metal Matrix Composites with Nano Fillers”, Proc. 2004 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 2004, p. OA3-02.
 81. K.J. Wu, H.T. Pan, M. L. T. Guo, Y.H. Su , C.Y-A Tsao, J. C. Huang , S.C. Jang, “Research and Fabrication of Nano SiO₂ Particle-Reinforced Magnesium Alloy Composite by Spray Forming”, Proc. 2004 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 2004, p. PA3-29.
 82. K.J. Wu, H.T. Pan, M. L. T. Guo, Y.H. Su , C.Y-A Tsao, J. C. Huang , S.C. Jang, “Characteristics of Nano SiO₂ Particle-Reinforced Magnesium Composites Prepared by Spray Forming”, Proc. 2004 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tsinchu, 2004, p. PA2-48.
 83. C. J. Lee, J. C. Huang, and P. L. Hsieh, “AZ61 Mg Nano Composites Made by Friction Stir Porcessing”, accepted by Conf. Aeronautical and Mechanical Engineering, Gun-Shian, Kaohsiung County, 2005, p. B-37.
 84. Y. T. Cheng, T. H. Hung, and J. C. Huang, “Characterization of Amorphous Mg-Cu-Y-B Alloy”, accepted by Conf. Aeronautical and Mechanical Engineering, Gun-Shian, Kaohsiung County, 2005, p. B-23.
 85. P. J. Hsieh, Y. J. Lo, J. C. Huang, and J. P. Ju, “Cyclic transition between nanocrystalline and amorphous phases in Zr based alloys made by ARB process”, Proc. 2005 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2005, p. 1-2-O-001.
 86. J.S.C. Jang, L.J. Chang, H. Wang, Y.C. Huang, T.H. Hung, and J. C. Huang, “Thermal Properties of the Zr-Al-Cu-NiBased Amorphous Alloys Added with Boron and Silicon”, Proc. 2005 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2005, p. 1-2-O-003.
 87. L. J. Chang, J. S. C. Jang, B. C. Yang, W. J. Li, S. J. Wu and J. C. Huang, “Thermal properties and Crystallization of the Mg₆₅Cu_{25-x}Gd₁₀Ag_x (x=0, 5, 10) Amorphous Alloys”, Proc. 2005 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2005, 1-2-P-049.
 88. J.S.C. Jang, L.J. Chang, J. H. Young, J.Y. Ciou, J.C. Huang, Chi Y.A. Tsao, “Study on the Synthesis of the Mg-Based Amorphous/ Nano ZrO₂ Composite Alloy”, Proc. 2005 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2005, p. 1-3-I-001.
 89. J. C. Lin, Y. P. Hung, J. C. Huang, and C. Y. A. Tsao, “Fracture toughness analysis of AZ61 Nano composites”, Proc. 2005 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2005, p. 1-3-O-006.
 90. Y. T. Cheng, T. H. Hung, J. C. Huang, P. L. Hsieh, J. S. C. Jang, “Thermal stability and crystallization kinetics of Mg-Cu-Y-B quaternary alloys”, Proc. 2005 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2005, p. 1-2-P-033.
 91. C. H. Chung, J. C. Huang, and P. L. Hsieh, ”Multi-elemental Mg base alloys fabricated by friction stir processing”, Proc. 2005 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2005, p. 1-2-P-043.
 92. C. J. Lee, J. C. Huang, and P. L. Hsieh, “Mg based nanocomposites fabricated by friction

- stir processing”, Proc. 2005 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2005, p. 1-2-P-066.
- 93. K. C. Kuo, J. C. Huang, and M. Chen, “Non-isothermal crystallization kinetic behavior of alumina nanoparticle filled poly(ether etherketone)”, Proc. 2005 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2005, p. 4-2-P-037.
 - 94. R. H. Gong, G. S. Ching, K. J. Wu, Chi Y. A. Tsao, J. C. Huang, and J. S. C. Jang, “Workability Analysis of Spray Formed Mg Based Nanocomposites”, Proc. 2005 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2005, p. 1-3-P-023.
 - 95. C. I. Chang, Y. N. Wang, H. R. Pei, C. J. Lee, and J. C. Huang, “AZ31-Mg Based Composites with Nano-ZrO₂ and Nano-SiO₂ Particulates Fabricated by Friction Stir Processing”, Proc. 2006 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2006, P10-011.
 - 96. Y. H. Lai, M. C. Kuo, J. C. Huang, and M. Chen, “On the PEEK Composites Reinforced by Surface-Modified Nano-Silica”, Proc. 2006 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2006, P10-010.
 - 97. H. M. Chen, Y. C. Chang, T. H. Hung, J. C. Huang, and J. S. C. Jang, “The Glass Forming Ability and Mechanical Properties of Mg-Cu-Gd Bulk Metallic Glasses”, Proc. 2006 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2006, P08-063.
 - 98. Y. C. Chang, T. H. Hung, H. M. Chen, and J. C. Huang, “Influence of the Hard Component on the Effective Linear Expansion Coefficient of Mg-Based Metallic Glasses”, Proc. 2006 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2006, P08-064.
 - 99. T. H. Hung, Y. C. Chang, H. M. Chen, T. W. Tang, J. N. Kuo, and J. C. Huang, “Thermal Properties of Mg-Cu(Ni)-Y(Gd) Ternary Amorphous Alloys”, Proc. 2006 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2006, P08-065.
 - 100. T. W. Tang, J. N. Kuo, H. M. Chen, T. H. Hung, Y. L. Tsai, and J. C. Huang, “Improvement of Thermal and Hardness Properties of Mg-Cu Based Amorphous Alloys with high amounts of large-sized elements”, Proc. 2006 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2006, P08-062.
 - 101. Y. C. Lo, J. P. Ju, and J. C. Huang, “Atomic structural evolution of Zr-Ni during accumulative roll bonding using Honeycutt-Anderson (HA) pair analysis”, Proc. 2006 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2006, P11-007.
 - 102. J. C. Huang, “Fabrication and Property Evaluation of Mg BMGs”, Proc. 2006 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2006, F02-09.
 - 103. K. F. Chang, M. L. T. Guo, C. Y. A. Tsao, J. S. C. Jang, and J. C. Huang, “Mg-Cu-Gd Layered Composite Plate Synthesized via Spray Froming Process”, Proc. 2006 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2006, P08-019.
 - 104. B. C. Yang, J. S. C. Jang, L. J. Chang, C. C. Tseng, W. C. Lee, C. S. Lee, and J. C. Huang, Glass Forming and Thermal Properties of the Mg-Cu-Gd-Nd Amorphous Alloys, Proc.

- 2006 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2006, P08-095.
105. L. J. Chang, G. R. Fang, C. Y. Chiu, J. S. C. Jang, J. C. Huang, and C. Y. A. Tsao, "Mechanical Properties of the Mg-Based Amorphous/Nano Zirconia Composites Alloy", Proc. 2006 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Tainan, 2006, P10-065.
106. X.H. Du, J.C. Huang, K.C. Hsieh, Y. H. Lai, H.M. Chen, J.S.C. Jang, P.K .Liaw , and Y.T. Cheng, "Two-glassy-phase bulk metallic glass with remarkable plasticity", Proc. 2007 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Hsinchu, 2007, P07-123.
107. Y. C. Lo, J. C. Huang, C. L. Chen, S. P. Ju, H. S. Chou, X. H. Du, M. C. Liu, and Y. T. Cheng, "Atomic simulation of vitrification transformation in Mg-Cu thin film", Proc. 2007 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Hsinchu, 2007, P07-122.
108. C. J. Chen, J. C. Huang, Y. H. Lai, H. S. Chou,L. W. Chang, X. H. Du, Y. T. Cheng, J. P. Chu, and T. G. Nieh, "On the amorphous and nanocrystalline Zr-Cu and Zr-Ti co-sputtered thin films", Proc. 2007 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Hsinchu, 2007, P07-107.
109. C. J. Lee , J. C. Huang, T. G. Nieh, and Y. H. Lai, "Sample size effect of Mg₆₅Cu₂₅Gd₁₀ metallic glass micro-pillars", Proc. 2007 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Hsinchu, 2007, P08-023.
110. H. S. Chou, J. C. Huang, Y. H. Lai, L. W. Chang, X. H. Du, J. P. Chu, and T. G. Nieh, "Amorphous and nanocrystalline sputtered Mg-Cu thin films", Proc. 2007 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Hsinchu, 2007, P08-123.
111. C. I. Chang, X. H. Du, and J. C. Huang, "Achieving ultrafine grain size in AZ31 Mg alloy by friction stir processing", Proc. 2007 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Hsinchu, 2007, P08-089.
112. Y. C. Chang, C. J. Lee, J. C. Huang, and T. G.. Nieh, "Effect of silver or boron on viscosity and thermomechanical properties in Mg-Cu-Gd based bulk metallic glasses", Proc. 2007 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Hsinchu, 2007, P08-118.
113. Y. C. Chang, C. J. Lee, J. C. Huang,T. T. Wu, M. F. Chen, and C. T. Pan, "Finite element simulation of micro-imprinting in Mg-Cu-Y amorphous alloy", Proc. 2007 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Hsinchu, 2007, P08-083.
114. C. W. Tang, C. J. Lee, J. C. Huang, J. S. C. Jang, "On Au-based metallic glass micro-pillars", Proc. 2007 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Hsinchu, 2007, P08-132.
115. W. C. Lee, J. S. C. Jang, G. Y. Ciou, I. S. Lee, Y. S. Chang, and J. C. Huang, "Improvement of toughness of Mg based bulk metallic glasses via adding ductile metal particles", Proc. 2007 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Hsinchu, 2007, P08-069.
116. X. H. Du, J. C. Huang, J. S. C. Jang, K. C. Hsieh, P. K. Liaw, "Toughening of Bulk Metallic Glasses", Proc. 2008 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2008, p. 29.

117. J. S. C. Jang, P. R. Hsieh, S. R. Jian, J. C. Huang, Chi. Y. A. Tsao, J. Y. Ciou, Y. C. Huang, T. H. Li, T. H. Hung, "Dispersion toughening of bulk metallic glass composites with ductile metallic particles", Proc. 2008 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2008, p. 8.
118. K. F. Chang, Chi Y. A. Tsao, J. C. Huang, and J. S. C. Jang, "Spray Forming of Mg-Cu-Gd Layered Composite Plate", Proc. 2008 Annual Conf. of Chinese Society for Materials Science, Chinese Society for Materials Science, Taipei, 2008, p. 35.
119. J. C. Huang, T. H. Hung, H. M. Chen, C. J. Lee, and J. S. C. Jang, "Recent progress on Mg based metallic glasses and composites", Proc. MRS-T, Chinese Society for Materials Science, 2009, p. 2.
120. J. S. C. Jang and J. C. Huang, "High toughness Mg based bulk metyalllic glass composites dispersed with ductile metallic particles", Proc. MRS-T, Chinese Society for Materials Science, 2009, p. 3.
121. Che-Nan Kuo, Hai-Ming Chen, and J. C. Huang, "Energy release for flow serration of Cu-based bulk metallic glasses in compression", Proc. MRS-T, Chinese Society for Materials Science, 2009, p. 312.
122. I. C. Lin, Y. C. Chang, H. M. Chen, and J. C. Huang, "Thermomechanical properties and microforming of phase-separated Zr based metallic glasses", Proc. MRS-T, Chinese Society for Materials Science, 2009, p. 309.
123. K. P. Lin, Chi Y. A. Tsao, J. C. Huang, and J. S. C. Jang, "Using spray forming to fabricate Mg-Cu-Gd bulk metallic glass", Proc. MRS-T, Chinese Society for Materials Science, 2009, p. 336.
124. J. S. C. Jang, Y. S. Chang, T. H. Li, P. J. Hsieh, J. C. Huang, Chi, Y. A. Tsao, Y. H. Chang, "Remarkable plasticity improvement of MgCuGdAg based bulk metallic glass composites with Ti particles", Proc. MRS-T, Chinese Society for Materials Science, 2009, p. 310.
125. Ching-Jen Lee, Hsuan-Kai Lin, Shuo-Yang Sun, J. C. Huang, "Characteristic difference between ITO/amorphous metal and ITO/crystalline metal bi-layer films as transparent electrodes deposited on PET substrate", Proc. MRS-T, Chinese Society for Materials Science, 2010, p. 117.
126. H. S. Chou, J. C. Huang, and L. W. Chang, "Using Sputtering to fabricate Zr-Cu-Ti-Ta amorphous thin films", Proc. MRS-T, Chinese Society for Materials Science, 2010, p. 220.
127. Ming-Che Liu, I-Chih Lin, Yen-Huei Lai, J. C. Huang, "Inhomogeneous and homogeneous deformation behavior on amorphous/crystalline multilayered thin films", Proc. MRS-T, Chinese Society for Materials Science, 2010, p. 297.
128. S. Y. Kuan, H. S. Chou, J. C. Huang, "Deformation mechanism in multilayered amorphous thin films", Proc. MRS-T, Chinese Society for Materials Science, 2010, p. 216.
129. T. T. Hu, C. N. Kuo, J. C. Huang, "Phase separation and mechanical property of phase separated Cu-V-Zr-Al amorphous alloys", Proc. MRS-T, Chinese Society for Materials Science, 2010, p. 290.
130. T. G. Nieh, J. S. C. Jang, and J.C. Huang, "Overview: ductility improvement in bulk metallic glasses via composite approaches", Proc. Cross Strait Composite Symposium, Kaohsiung, Sep. 2011.
131. J. S. C. Jang, J. C. Huang, and T. G. Nieh, "Prominent plasticity of Mg-based bulk metallic glass composites by ex-situ dispersion of ductile particles", Proc. Cross Strait

- Composite Symposium, Kaohsiung, Sep. 2011.
132. Y. N. Wang and J.C. Huang, "Mechanical properties of Mg-AZ31 based composites with Ti particles fabricated by friction stir processing", Proc. Cross Strait Composite Symposium, Kaohsiung, Sep. 2011.
 133. H. S. Chou and J. C. Huang, "Strengthening of Zr-based thin film metallic glasses", Proc. Cross Strait Composite Symposium, Kaohsiung, Sep. 2011.
 134. H. K. Lin, C. J. Lee, J. H. Lee, W. P. Hsu, and J. C. Huang, "Electrical fail of ITO upon web etching by pulse laser annelaing", Proc. MRS-T, Chinese Society for Materials Science, 2012, p. 1704.
 135. C. J. Lee, C. H. Hsieh, H. S. Huang, and J. C. Huang, "Tension behavior of sputtered and evaporated Zn films deposited on flexible polyimide substrate", Proc. MRS-T, Chinese Society for Materials Science, 2012, p. 2194.
 136. C. H. Huang, J. C. Huang, "Simulated Body Fluid Electrochemical Response of Zr-based Metallic Glasses with Different Degrees of Crystallization", Proc. MRS-T, Chinese Society for Materials Science, 2012, p. 0933.
 137. Y. H. Chen, H. J. Pei, J. C. Huang, L. Wang, and T. G. Nieh, "Effect of residual stresses on nanoindentation creep behavior of Zr-based bulk metallic glasses", Proc. MRS-T, Chinese Society for Materials Science, 2012, p. 3020.
 138. H. C. Lin, J. W. Chiu, Y. S. Liu, S. W. Chen, J. S. C. Jang, J. C. Huang, and C. H. Lin, "Alloy design of Cu-free Ti-based bulk metallic glass for bio-applications", Proc. MRS-T, Chinese Society for Materials Science, 2012, p. 2773.
 139. S. Y. Kuan and J. C. Huang, "Deformation behavior of MgCuZr thin film metallic glasses", Proc. MRS-T, Chinese Society for Materials Science, 2012, p. 3226.
 140. Y. Y. Chu, J. L. Ke, and J. C. Huang, "Superior antimicrobial effect of AgAlTi thin film metallic glass", Proc. MRS-T, Chinese Society for Materials Science, 2013, p. BM-028.
 141. C. H. Huang and J. C. Huang, "Simulated body fluid bio-corrosion response of Zr-based metallis glasses with different degrss of crystallization", Proc. MRS-T, Chinese Society for Materials Science, 2013, p. BM-009.
 142. C. H. Hsieh, C. J. Lee, and J. C. Haung, "Tension behavior of sputtered and evaporated Zn films deposited on flexible polyimide substrate with an adhesive layer of amorphous ZrCu film", Proc. MRS-T, Chinese Society for Materials Science, 2013, p. SM-104.
 143. C. M. Chang, J. H. Wang, J. H. Hsu, and J. C. Huang, "Aluminum-based nanocrystalline composite coatings for optical reflector applications", Proc. MRS-T, Chinese Society for Materials Science, 2013, p. OM-119.
 144. T. T. Wu and J. C. Huang, "Nanoporous material fabricated by chemical dealloying of Ag-Al alloys", Proc. MRS-T, Chinese Society for Materials Science, 2013, p. NA-119.

(iii) Workshop Papers

1. J. C. Huang and A. J. Ardell, "Microstructure Characterization in Two Al-Li-Cu Alloys", Proc. 1st Annual Material Research Symposium, Materials Research Society and MSE Dept., UCLA, 1985, p. 13.
2. J. C. Huang and A. J. Ardell, "Microstructural Characterization of Quaternary Al-Li Base Alloys", Proc. 2nd ALCOA Al-Li Workshop, Hidden Valley, PA, 1985.
3. J. C. Huang and A. J. Ardell, "Strengthening Mechanisms due to T₁ Precipitates in Al-Li-Cu Alloys", Proc. 2nd Annual Material Research Symposium, Materials Research Society and MSE Dept., UCLA, 1986, p. 1.

4. J. C. Huang, "Deformation in Solid under Shock Wave Loading", International High-Pressure Research Workshop, Tainan, 1991, p. 12.
5. L. Wei and J. C. Huang, "Influence of Heat Treatment and Hot Working on the Fracture Toughness of Cast Aluminum Base Composites", Proc. Metal Matrix Composites Research Symposium, National Sci. Council and National Sun Yat-Sen Univ., Kaohsiung, 1992, p. 99.
6. T. D. Wang and J. C. Huang, "Analysis on High Strain Rate Superplasticity in 6061/1% Nano SiO₂", Proc. Workshop between Mainland China and Taiwan on Ceramic and Metal Composites, Chinese Society for Materials Science, Taichung, 2001, p. 20.
7. J. C. Huang, "Recent Achievement in Developing Low Temperature and High Strain Rate Superplastic Materials", Workshop of 30th anniversary of Tsinghua University-a Joint Materials Workshop between Tsinghua University in Taiwan and Mainland China, Hsinchu, 2002, p. 106.
8. J. C. Huang, "Nanocrystalline and Amorphous Bulk Materials and Composites", Workshop of Nano Science and Technology, Kaohsiung, 2003, p. 28.
9. J. C. Huang, "Nanocrystallization and Amorphization Mechanisms in Zr-X Binary and Multiple Alloys during ARB", 2rd Workshop of Nano Science and Technology, Tainan, 2004, p. 45.
10. J. C. Huang, "Microstructural Evolution in Zr Based Amorphous Alloys", Workshop on Bulk Amorphous Metallic Alloys, Kaohsiung, 2004, p. 23.
11. J. C. Huang, "Nanocrystalline and amorphous Mg based alloys and composites", 5th Workshop of Nano Science and Technology, Tainan, 2005, p. 2.
12. Y. P. Hung, J.C. Huang, K. J. Wu, and Chi Y.A. Tsao, "Strengthening and Toughness of AZ61 Mg with Nano SiO₂ Particles", 2nd Magnesium Workshop, Taipei, 2006, p. 13.
13. C. J. Lee and J. C. Huang, "High Strain Rate Superplasticity in Mg Based Composites Fabricated by Friction Stir Processing", 2nd Magnesium Workshop, Taipei, 2006, p. 79.
14. C. I. Chang, C. J. Lee, C. H. Chuang, J. C. Huang, and J. S. C. Jang, "On Mg-Al-Zn Intermetallic Alloys Made by Friction Stir Processing Containing Quasi-Crystals and Amorphous Phases", 2nd Magnesium Workshop, Taipei, 2006, p. 59.
15. T. H. Hung, Y. C. Chang, H. M. Chen, Y. L. Tsai, J. C. Huang, J. S. C. Jang, and T. G. Nieh, "Thermal and Mechanical Properties of Mg-Cu(Ni)-Gd(Y)-B(Si) Amorphous Alloys", 2nd Magnesium Workshop, Taipei, 2006, p. 35.
16. G. F. Chang, M. L. Kuo, R. H. Gong, Chi Y. A. Tsao, J. C. Huang, J. S. C. Jang, "Mg-Cu-Gd Layer Composites Plate Synthesized via Spray Forming Process", 2nd Magnesium Workshop, Taipei, 2006, p. 67.
17. R. H. Gong, M. L. Kuo, G. F. Chang, Chi Y. A. Tsao, J. C. Huang, J. S. C. Jang, "The Study of Mg-Cu-Y Bulk Metallic Glass Plate via Spray Forming Process", 2nd Magnesium Workshop, Taipei, 2006, p. 113.
18. J. S. C. Jang, L. J. Chang, B. C. Yang, Y. C. Huang, and J. C. Huang, "Crystallization and Thermal Properties of Mg₆₅Cu_{25-x}Gd₁₀Ag_x (x=0-10) Alloys", 2nd Magnesium Workshop, Taipei, 2006, p. 1.
19. J. C. Huang, "High Performance Mg Based Amorphous Alloys and Composites", Cross-Strait Mg Workshop, Kaohsiung, 2007, p. 7.
20. J. C. Huang, J. S. C. Jang, and C. Y. Tsao, "Recent Development in Mg Based Amorphous Alloys and Composites", Taiwan – Japan Magnesium Workshop, Taipei, 2007, p. 40.
21. J. C. Huang, J. S. C. Jang, and K. C. Hsieh, "Ductile Zr and Mg Based Metallic Glasses

- via Phase Separation and Reduced Size”, 1st Bulk Metallic Glasses Workshop, National Taiwan University of Science and Technology, 2007, p. 29.
22. C. I. Chang, X. H. Du, and J. C. Huang, “Using FSP in Producing Ultrafine Nano Grains in AZ31 Mg Alloys”, Annual Mg Workshop, Taipei, 2007, p. 10.
 23. J. S. C. Jang, C. C. Tseng, L. J. Chang, J. C. Huang, and C. Y. Tsao, “Thermal Mechanical Properties of Mg₅₈Cu₃₁Nd₅Y₆ Bulk Metallic Glass within the Supercooled Liquid Temperature Region”, Annual Mg Workshop, Taipei, 2007, p. 29.
 24. C. J. Lee, J. C. Huang, T. G. Nieh, and Y. H. Lai, “Sample Size Effect and Micro-compression of Mg₆₅Cu₂₅Gd₁₀ Metallic Glass”, Annual Mg Workshop, Taipei, 2007, p. 40.

(C) Patents

1. H. P. Pu and J. C. Huang, G-R Su, "Low Temperature Superplasticity in 8090 Al-Li Base Alloys", approved by ROC patent registration., 1993, patent license no: Invention 062260, 1983-2012.
2. H. P. Pu, J. C. Huang, H. C. Shih, and S-H Yen, "Thermomechanical Treatments for Making Superplastic 7075 and 7475 Al Sheets", approved by ROC patent registration, 1995, patent license no: Invention 070543, 1995-2014.
3. H. P. Pu and J. C. Huang, and H. C. Shih, "Processing Routes for Intertransformation between Low-Temperature and High-Temperature Superplasticity in 8090 Al-Li Alloys", approved by ROC patent registration, 1995, patent license no: Invention 073148, 1995-2015.
4. B. Y. Lou, Y. F. Huang, J. R. Huang, J. C. Huang, H. L. Lee, and H. C. Fu, "Processing Routes for Making 6061Al/SiC_(p) Composites Possessing High Strain Rate Superplasticity", approved by ROC patent registration, 2001, patent license no: Invention 127987, 2001-2017.
5. I. C. Hsiao and J. C. Huang, H. C. Shih, "Low Temperature Superplasticity in 5083 Al-Mg Base Alloys", approved by ROC patent, 2002, patent license no: Invention 151060, 2002-2018.
6. H. K. Lin and J. C. Huang, "Fabrication and Press Forming of Low Temperature and High Strain Rate Superplasticity in AZ31 Mg Base Alloy", approved by ROC patent, 2003, patent license no: Invention 528621, 2003-2019.
7. H. K. Lin and J. C. Huang, "Using Simple High Extrusion Ratio in Fabrication Low Temperature Superplasticity in AZ91 Mg Base Alloy", approved by ROC patent, 2003, patent license no: Invention 536558, 2003-2019.
8. C. J. Lee and J. C. Huang, "Fabrication of Mg Based Nanocomposites Fabricated by Friction Stir Processing", approved by ROC patent approval, Invention, 2007, patent license no: Invention 94132922, 2007-2023.
9. J. S. C. Jang, J. Y. Ciou, T. H. Hung, J. C. Huang, and X. H. Du, "Glassy Metals Composite Materials", US Patent No. 7,955,477 B2, June 7, 2011.
10. J. S. C. Jang, J. Y. Ciou, T. H. Hung, J. C. Huang, and X. H. Du, "Enhanced Mechanical Performance of Mg Based Metallic Glass with Porous Mo Particles", ROC patent, Invention, approved, patent license no: Invention 385256, 2013-2023.
11. C. T. Pan, C. L. Chen, M. F. Chen, Y. M. Hwang, and J. C. Huang, "Application of Berkovich-Shaped Mold to Optical Film", approved by ROC patent, Invention 408041, 2013-2023.

12. C. H. Lin, J. F. Chuang, J. C. Huang, C. S. Huang, J. S. C. Jang, C. H. Chen, "Analyzing Corrosion Activity of Amorphous Metallic Bio-Implant", approved by ROC patent, Invention, 2014.
13. J. S. C. Jang, P. H. Tsai, J. B. Li, P. C. Wong, and J. C. Huang, "Amorphous alloys based replaceable minimally invasive surgery devices", submitted to ROC patent, Invention, 2012.
14. C. T. Pan, J. C. Huang, F. C. Hsu, Y. J. Chen, "Micro-structure of metallic glasses to enhance the adhesion of bio implants", submitted to ROC patent, Invention, 2012.
15. J. S. C. Jang and J. C. Huang, "Toughening of metallic glasses", Technology transfer, NT\$ 200,000, 2012.
16. J. C. Huang, T. T. Hu, T. G. Nieh, J. H. Hsu, S. Y. Kuan, and C. J. Lee, "Metallic Glass Coating and Manufacturing Method Thereof", submitted to ROC patent, Invention, 2013.
17. J. S. C. Jang, J. C. Huang, J. B. Li, H. C. Lin, "Porous Amorphous Alloy Artificial Joint and Manufacturing Method Thereof", submitted to USA patent, 2013.

(D) Other Papers and Reports

(i) Other Journal Papers

1. J. C. Huang, G. An, G. L. Chen, and S. B. Lin, "Theory and Application of the Analytic Electron Microscopy", Instruments Today, vol. 61, 1991, p. 28 (in Chinese).
2. J. C. Huang, "Superplasticity and Superplastic Forming of Metallic Materials", Forging, vol. 2, no. 2, 1993, p. 21 (in Chinese).
3. J. C. Huang, "The Concept, Instrument, and Application of High Strain Rate Testing", Instruments Today, vol. 76, 1993, p. 15 (in Chinese).
4. H. C. Fu and J. C. Huang, "A Study on the Superplasticity of Ti₃Al Intermetallic Compound", Forging, vol. 2, no. 2, 1995, p. 1 (in Chinese).
5. S. C. Chen, J. C. Huang, N. J. Ho, "Welding Characteristics and Post-Weld Charpy Properties of Laser-Beam and Electron-Beam Welded Al-Li Based Thin Sheets and Thick Plates", Welding and Cutting, vol. 6, no. 6, 1996, p. 7 (in Chinese).
6. C. S. Liau and J. C. Huang, "Using Electron Backscattering Diffraction to Establish Micro-Texture - A New Technique Associated with Scanning Electron Microscopy", Instruments Today, vol. 19, no. 5, 1998, p. 43 (in Chinese).
7. J. C. Huang, "Development of High-Rate/Low-Temperature Superplasticity in Al-Based Materials", Engineering Science & Technology Bulletin, vol. 39, 1999, p. 21 (in Chinese).
18. J. C. Huang, "Recent Development of Structural and Functional Intermetallic Alloys", Chinese Materials Science, vol. 9, no. 1, 2002, p. 4 (in Chinese).
19. J. C. Huang, "Recent Development of Low Temperature and High Strain Rate Superplasticity in Light-Weight Materials", Workshop for 30th Anniversary of Tsinghua University, 1, 2002, p. 106.
20. J. C. Huang, "Grain Refinement in Light Metals" Industry Materials, no. 6, 2003, p 114. (in Chinese)
21. M. C. Kuo and J. C. Huang, "High Performance Mg Base Materials", Industry Materials, no. 6, 2003, p. 121 (in Chinese).
22. C. I. Chang and J. C. Huang, "New Development in Friction Stir Processing", Instruments Today, vol. 139, 2004, p. 59 (in Chinese).
23. J. C. Huang, "Using Friction Stir Processing in Fabricating High Performance Materials", NSC Engineering Science & Technology Bulletin, vol. 85, 2006, p. 53 (in Chinese).

24. U. F. Chen, G. P. Chang, Chi Y. A. Tsao, J. S. C. Jang, and J. C. Huang, "Using Spray Forming and Melt Spinning to Fabricate Amorphous Mg-Cu-Gd Alloys", Magnesium Industry Newsletter, vol. 43, 2008, pp. 55-62 (in Chinese).
25. J. C. Huang, "Recent progress in metallic glasses in Taiwan", ROC Science Bulletin, vol. 99, 2010, p. 2-2-1-1 (in Chinese).
26. J. C. Huang, "Research on multilayered metallic thin films", Engineering Science & Technology Bulletin, NSC, vol. 127, 2012, p. 37 (in Chinese).
27. J. C. Huang, "Biomedical and functional application of advanced metallic glasses", 2013, National Nano Project Bulletin, NSC, 2013, p. 217 (in Chinese).

(ii) Technical Reports

1. J. C. Huang, "Report for Short Summer Interchange Visit: Microstructure Characterization of Aircraft-Used Aluminum Base Alloys", supported by Chung Shan Institute of Science and Technology (collaborated with AIDC, Taichung), 1990.
2. J. C. Huang, "Study on the Strain Rate Dependence in Al-Li Base Alloys", report for project, supported by National Science Council, Project no. NSC 79-0405-E-110-13, 1991.
3. Y. S. Lo and J. C. Huang, "Dynamic and Quasi-Static Deformation of Al-Li/Al₂O₃ and Ti-6Al-4V/B₄C/B Composites", report for research project, supported by National Science Council, Project no. NSC 80-0405-E-110-04, 1991.
4. S. H. Yen, H. P. Pu, and J. C. Huang, "Superplastic Behavior in 7475 and 8090 Alloys", report for research project supported by China Steel Corp., 1991.
5. H. P. Pu, S. H. Yen, J. C. Huang, "Evaluation in Superplastic Forming of 8090 Al-Li Base Alloys", report for research project supported by Defense Related Technology Development Group (collaborated with AIDC, Taichung), 1991.
6. H. P. Pu, T. R. Chen, J. C. Huang, "Research on the Superplastic Forming of Light Metals", mid-report for research project supported by Metal Industries Development Centre (MIDC), 1992.
7. T. R. Chen and J. C. Huang, "Research on the Superplastic Forming of Light Metals", final report for research project supported by MIDC, 1992.
8. L. Wei, J. C. Huang, and H-P Pu, "Characterization and Improvement of Fracture Toughness and Superplasticity in Aluminum Base Metal Matrix Composites", report for research project, supported by National Science Council, Project no. NSC 81-0405-E-110-06, 1992.
9. T. R. Chen, G. M. Liau, J. C. Huang, and Y. M. Hwang, "Practice and Computer Simulation of the Superplastic Forming and Diffusion Bonding of Al-Li Alloys", report for research project supported by Defense Related Technology Development Group (collaborated with AIDC, Taichung), CS 81-0210-D-110-502, 1993.
10. H-P Pu, Y. D. Shen, C. S. Liau, J. C. Huang, N. J. Ho, "On the Bonding of Aluminum Alloys and Microstructure of Aluminum Matrix Composites", report for research project, supported by National Science Council, Project no. NSC 82-0405-E-110-027, 1993.
11. H-P Pu, F. C. Liu, M. F. Lee, J. C. Huang, "On the Superplasticity and Bonding of Al-Li 8090 Alloys", report for research project, supported by National Science Council, Project no. NSC 83-0405-E-110-002, 1994.
12. B. Y. Lou, C. S. Liau, and J. C. Huang, "Fabrication of Property Evaluation of Short and Long Fiber Reinforced Aluminum Base Metal Matrix Composites", report for research

- project, supported by National Science Council, Project no. NSC 83-0405-E-110-003, 1994.
- 13. H. C. Fu and J. C. Huang, "Research on Superplasticity of Ti₃Al Intermetallic Compounds", mid-report for research project supported by Metal Industries Development Centre (MIDC), 1994.
 - 14. H. C. Fu and J. C. Huang, "Research on Superplasticity of Ti₃Al Intermetallic Compounds", final report for research project supported by Metal Industries Development Centre (MIDC), 1995.
 - 15. H. P. Pu, G. J. Peng, S. C. Chen, and J. C. Huang, "On the Superplasticity and Joining of 8090 Al-Li Alloy (II)", report for research project, supported by National Science Council, Project no. NSC 84-2216-E-110-013, 1995.
 - 16. B. Y. Lou, C. S. Liauo, and J. C. Huang, "Deformation and Fracture Mechanisms of Aluminum Base Metal Matrix Composites under High-Rate Loading", report for research project, supported by National Science Council, Project no. NSC 84-2216-E-110-022, 1995.
 - 17. B. Y. Lou, C. S. Liauo, and J. C. Huang, "High-Rate Properties of Aluminum Alloys and Aluminum Base Metal Matrix Composites", mid-report for research project supported by Metal Industries Development Centre (MIDC), 1995.
 - 18. B. Y. Lou, C. S. Liauo, and J. C. Huang, "High-Rate Properties of Aluminum Alloys and Aluminum Base Metal Matrix Composites", final report for research project supported by Metal Industries Development Centre (MIDC), 1996.
 - 19. C. R. Chen, S. C. Chen, and J. C. Huang, "On the Superplasticity and Joining of 8090 Al-Li Alloy (III)", report for research project, supported by National Science Council, Project no. NSC 85-2216-E-110-007, 1996.
 - 20. C. S. Liauo, B. Y. Lou, H. L. Lee, and J. C. Huang, "Deformation and Fracture Mechanisms of Aluminum Base Metal Matrix Composites under High-Rate Loading (II)", report for research project, supported by National Science Council, Project no. NSC 85-2216-E-110-016, 1996.
 - 21. B. Y. Lou and J. C. Huang, "Processing and Characterization of High-Rate Superplasticity in 2024 Aluminum Base Metal Matrix Composites", mid-report for research project supported by Metal Industries Development Centre (MIDC), 1996.
 - 22. B. Y. Lou, Y. F. Huang, J. R. Huang, and J. C. Huang, "Processing and Characterization of High-Rate Superplasticity in 2024 Aluminum Base Metal Matrix Composites", final report for research project supported by Metal Industries Development Center (MIDC), 1997.
 - 23. C. S. Liauo and J. C. Huang, "Deformation and Fracture Mechanisms of Aluminum Base Metal Matrix Composites under High-Rate Loading (III)", report for research project, supported by National Science Council, Project no. NSC 86-2216-E-110-011, 1997.
 - 24. H. C. Fu, T. D. Wang, and J. C. Huang, "Characteristics and Deformation Mechanisms of Superplastic Super α_2 Ti₃Al Based Thin Sheet", report for research project, supported by National Science Council, Project no. NSC 86-2216-E-110-021, 1997.
 - 25. I. C. Hsiau and J. C. Huang, "Research and Development of High Strain Rate Superplasticity in Aluminum Base Materials, Main Project I", report for research project, supported by National Science Council, Project no. NSC 87-2216-E-110-017, 1998.
 - 26. B. Y. Lou, T. D. Wang, and J. C. Huang, "Research and Development of High Strain Rate Superplasticity in Aluminum Base Materials Using Powder Metallurgy Methods, I",

- report for research project, supported by National Science Council, Project no. NSC 87-2216-E-110-018, 1998.
- 27. B. Y. Lou, J. C. Huang, and T. D. Wang, "Fine-Grained Aluminum Alloys and Composites Loaded at Ultrahigh Temperatures near Solidus Point, Main Project II", report for research project, supported by National Science Council, Project no. NSC 88-2216-E-110-007, 1999.
 - 28. S. W. Su, I. C. Hsiao, and J. C. Huang, "Evolution of grain Structure and Texture during Low Temperature Superplasticity in Al-Mg Alloys, II", report for research project, supported by National Science Council, Project no. NSC 88-2216-E-110-008, 1999.
 - 29. I. C. Hsiao and J. C. Huang, "Grain Boundary Properties in Fine-Grained Al Alloys Exhibiting Low Temperature or High Strain Rate Superplasticity, Main Project III", report for research project, supported by National Science Council, Project no. NSC 89-2216-E-110-014, 2000.
 - 30. T. D. Wang and J. C. Huang, "Development of High Strain Rate Superplasticity in 6061Al/1%Nano-SiO₂, III", report for research project, supported by National Science Council, Project no. NSC 89-2216-E-110-016, 2000.
 - 31. I. C. Hsiao and J. C. Huang, "Texture, Deformation Mechanisms and Grain Boundary Sliding during Low Temperature Superplasticity in 5083 Al-Mg Alloy", report for research project, supported by National Science Council, Project no. NSC 89-2216-E-110-041, 2001.
 - 32. H. K. Lin, S. F. Su, and J. C. Huang, "Welding Behavior and Texture Evolution in Mg-Al-Zn Base Alloys", report for research project, supported by National Science Council, Project no. NSC 89-2216-E-110-043, 2001.
 - 33. H. K. Lin, H. H. Wu, Y. N. Wang, and J. C. Huang, "Characterization of Welding Texture and Post-Weld Mechanical Behavior of Mg-Al-Zn Base Alloys (1/2)", report for research project, supported by National Science Council, Project no. NSC 90-2216-E-110-024, 2002.
 - 34. P. J. Hsieh, Y. P. Hung, and J. C. Huang, "Fabrication of Nanocrystalline or Amorphous Alloys through Accumulative Roll Bonding and Arc Melting Method (1/2)", report for research project, supported by National Science Council, Project no. NSC 90-2216-E-110-034, 2002.
 - 35. H. H. Wu, Y. N. Wang, and J. C. Huang, "Characterization of Welding Texture and Post-Weld Mechanical Behavior of Mg-Al-Zn Base Alloys (2/2)", report for research project, supported by National Science Council, Project no. NSC 91-2216-E-110-006, 2003.
 - 36. P. J. Hsieh, S. Y. Chiu, Y. P. Hung, T. H. Hung, and J. C. Huang, "Fabrication of Nanocrystalline or Amorphous Alloys through Accumulative Roll Bonding and Arc Melting Method (2/2)", report for research project, supported by National Science Council, Project no. NSC 91-2216-E-110-005, 2003.
 - 37. Y. P. Hung, P. J. Hsieh, T. H. Hung, and J. C. Huang, "Development of Nano Composites through Advanced Processing Routes, Main Project (1/3)", report for research project, supported by National Science Council, Project no. NSC 92-2216-E-110-017, 2004.
 - 38. P. J. Hsieh, H. K. Lin, M. C. Kuo, Y. P. Hung, T. H. Hung, and J. C. Huang, "Using Spray Forming and Extrusion in Fabricating Mg Based Nanocomposites, Subproject II (1/3)", report for research project, supported by National Science Council, Project no. NSC 92-2216-E-110-018, 2004.

39. C. I. Chang, C.Y. Lee, K. L. Yang, and J. C. Huang, "Friction Stir Processing in Making Fine Grained Mg Based Materials and Its Superplasticity Study", report for research project, supported by National Science Council, Project no. NSC 92-2216-E-110-020, 2004.
40. Y. P. Hung, C. S. Lin, P. J. Hsieh, and J. C. Huang, "Development of Nano Composites through Advanced Processing Routes, Main Project (2/3)", report for research project, supported by National Science Council, Project no. NSC 93-2216-E-110-005, 2005.
41. Y. P. Hung, C. S. Lin, P. J. Hsieh, and J. C. Huang, "Using Spray Forming and Extrusion in Fabricating Mg Based Nanocomposites, Subproject II (2/3)", report for research project, supported by National Science Council, Project no. NSC 93-2216-E-110-006, 2005.
42. C. Y. Lee, C. H. Chuang, C. I. Chang, P. L. Hsieh, and J. C. Huang, "Friction Stir Processing in Light Materials and Its Microstructural Study", Subproject II (1/3), report for research project, supported by National Science Council, Project no. NSC 93-2216-E-110-021, 2005.
43. J. C. Huang and K. C. Huang, "Promotion for Metallic and Ceramic Materials Division", report for NSC division project, supported National Science Council, Project no. NSC 93-2217-E-110-005, 2006.
44. J. C. Huang, K. C. Hsieh, J. P. Chu, P. Y. Lee, J. S. C. Jang, C. Y. A. Tsao, J. K. Wu, and W. Kai, "Amorphous and Nanocrystalline Metallic Materials: Microstructural Feature and Property Evaluation (1/3)", report for international collaboration joint project, supported National Science Council, Project no. NSC 94-2218-E-110-009, 2006.
45. J. C. Huang, C. J. Lee, C. I. Chang, H. R. Pei, Y. N. Wang, "Friction Stir Processing in Light Materials and Its Microstructural Study", Subproject II (2/3), report for research project, supported by National Science Council, Project no. NSC 94-2216-E-110-010, 2006.
46. Y. P. Hung, C. S. Lin, T. H. Hung, C. J. Lee, H. R. Pei, J. C. Huang, J. S. C. Jang, C. Y. Tsao, and C. P. Chang, "Using Spray Forming and Extrusion in Fabricating Mg Based Nanocomposites, Main project (3/3)", report for research project, supported by National Science Council, Project no. NSC 94-2216-E-110-001, 2006.
47. Y. P. Hung, C. S. Lin, T. H. Hung, C. J. Lee, H. R. Pei, and J. C. Huang, "Development of Nano Composites through Advanced Processing Routes, SubProject II (3/3)", report for research project, supported by National Science Council, Project no. NSC 94-2216-E-110-002, 2006.
48. J. C. Huang and K. C. Huang, "Promotion for Metallic and Ceramic Materials Division", report for NSC division project, supported National Science Council, Project no. NSC 94-2217-E-110-004, 2007.
49. J. C. Huang, K. C. Hsieh, J. P. Chu, P. Y. Lee, J. S. C. Jang, C. Y. A. Tsao, J. K. Wu, and W. Kai, "Amorphous and Nanocrystalline Metallic Materials: Microstructural Feature and Property Evaluation (2/3)", report for international collaboration joint project, supported National Science Council, Project no. NSC 95-2218-E-110-006, 2007.
50. J. C. Huang, Y. C. Chang, T. H. Hung, X. H. Du, C. J. Lee, Y. C. Lo, Y. H. Lai, H. M. Chen, H. S. Chou, T. R. Chen, T. W. Tang, and C. N. Kuo, "High Performance Mg Based Nano and Amorphous Materials, Main Project (1/3)", report for NSC joint project, supported National Science Council, Project no. NSC 95-2221-E-110-013-MY3 (Year 1), 2007.
51. J. C. Huang, Y. C. Chang, T. H. Hung, X. H. Du, C. J. Lee, Y. C. Lo, Y. H. Lai, H. M.

- Chen, H. S. Chou, T. R. Chen, T. W. Tang, and C. N. Kuo, "High Performance Mg Based Nano and Amorphous Materials, Sub-project (1/3): Thermomechanical and Microstructural characterizations of High Performance Mg Based Nano and Amorphous Materials", report for NSC joint project, supported National Science Council, Project no. NSC 95-2221-E-110-014-MY3 (Year 1), 2007.
52. J. C. Huang, C. J. Lee, C. I. Chang, H. R. Pei, Y. N. Wang, and X. H. Du, "Friction Stir Processing in Light Materials and Its Microstructural Study", Subproject II (3/3), report for research project, supported by National Science Council, Project no. NSC 95-2221-E-110-049, 2007.
 53. J. C. Huang, K. C. Hsieh, J. P. Chu, P. Y. Lee, J. S. C. Jang, C. Y. A. Tsao, J. K. Wu, and W. Kai, "Amorphous and Nanocrystalline Metallic Materials: Microstructural Feature and Property Evaluation (3/3)", report for international collaboration joint project, supported National Science Council, Project no. NSC 96-2218-E-110-001, 2008.
 54. J. C. Huang, C. I. Chang, H. R. Pei, and X. H. Du, M. C. Liu, H. S. Chou, "Using Friction Stir Processing to Prepare Nano or Amorphous Materials", Subproject II (1/3), report for research project, supported by National Science Council, Project no. NSC 96-2628-E-110-008-MY3 (Year 1), 2008.
 55. J. C. Huang, Y. C. Chang, T. H. Hung, X. H. Du, C. J. Lee, Y. C. Lo, Y. H. Lai, H. M. Chen, H. S. Chou, H. J. Pei, T. W. Tang, and C. N. Kuo, "High Performance Mg Based Nano and Amorphous Materials, Main Project (2/3)", report for NSC joint project, supported National Science Council, Project no. NSC 95-2221-E-110-013-MY3 (Year 2), 2008.
 56. J. C. Huang, Y. C. Chang, T. H. Hung, X. H. Du, C. J. Lee, Y. C. Lo, Y. H. Lai, H. M. Chen, H. S. Chou, T. R. Chen, T. W. Tang, and C. N. Kuo, "High Performance Mg Based Nano and Amorphous Materials, Sub-project (2/3): Thermomechanical and Microstructural characterizations of High Performance Mg Based Nano and Amorphous Materials", report for NSC joint project, supported National Science Council, Project no. NSC 95-2221-E-110-014-MY3 (Year 2), 2008.
 57. J. C. Huang, H. R. Pei, M. C. Liu, H. S. Chou, Y. R. Wang, and Q. Gao, "Using Friction Stir Processing to Prepare Nano or Amorphous Materials", Subproject II (2/3), report for research project, supported by National Science Council, Project no. NSC 96-2628-E-110-008-MY3 (Year 2), 2009.
 58. J. C. Huang, H. J. Pei, S. Y. Sun, C. J. Lee, Q. Gao, Y. C. Lo, Y. H. Lai, H. M. Chen, H. S. Chou, M. C. Liu, S. Y. Guan, and Y. R. Wang, "High Performance Mg Based Nano and Amorphous Materials, Main Project (3/3)", report for NSC joint project, supported National Science Council, Project no. NSC 95-2221-E-110-013-MY3 (Year 3), 2009.
 59. J. C. Huang, Y. C. Lo, Y. H. Lai, H. M. Chen, D. H. Sung, S. Y. Guan, C. J. Lee, Q. Gao, H. S. Chou, M. C. Liu, and Y. R. Wang, "High Performance Mg Based Nano and Amorphous Materials, Sub-project (3/3): Thermomechanical and Microstructural characterizations of High Performance Mg Based Nano and Amorphous Materials", report for NSC joint project, supported National Science Council, Project no. NSC 95-2221-E-110-014-MY3 (Year 3), 2009.
 60. C. J. Lee and J. C. Huang, Transparent Conductive Metallic Glass Thin Film Coating, report for ITRI project, 2009.
 61. J. C. Huang, H. J. Pei, D. H. Sung, H. S. Chou, M. C. Liu, C. N. Kuo, X. H. Du, and C. J. Lee, "Advanced Improvement and Application of Metallic Glasses, Main Project (1/3)",

- report for NSC joint project, supported National Science Council, Project no. NSC 98-2221-E-110-035-MY3 (Year 1), 2010.
- 62. J. C. Huang, M. C. Liu, C. N. Kuo, S. Y. Sun, I. C. Lin, S. Y. Kuan, H. S. Chou, Y. R. Wang, X. H. Du, and C. J. Lee, "Advanced Improvement and Application of Metallic Glasses, Subproject Project I: Development and Application of High Toughness Performance Thin Film Metallic Glasses (1/3)", report for NSC joint project, supported National Science Council, Project no. NSC 98-2221-E-110-035-MY3 (Year 1), 2010.
 - 63. J. C. Huang, H. S. Chou, Y. R. Wang, P. Y. Chen, H. R. Pei, M. C. Liu, C. N. Kuo, and C. J. Lee, "Using Friction Stir Processing to Prepare Nano or Amorphous Materials", Subproject II (3/3), report for research project, supported by National Science Council, Project no. NSC 96-2628-E-110-008-MY3 (Year 3), 2010.
 - 64. J. C. Huang, H. J. Pei, D. H. Sung, H. S. Chou, M. C. Liu, C. N. Kuo, X. H. Du, C. J. Lee, and Y. C. Chang, "Advanced Improvement and Application of Metallic Glasses, Main Project (2/3)", report for NSC joint project, supported National Science Council, Project no. NSC 98-2221-E-110-035-MY3 (Year 2), 2011.
 - 65. J. C. Huang, M. C. Liu, H. J. Pei, C. N. Kuo, S. Y. Kuan, D. H. Sung, H. S. Chou, X. H. Du, C. J. Lee, Y. C. Chang, T. S. Huang, H. S. Huang, Y. H. Chen, and W. C. Lin, "Advanced Improvement and Application of Metallic Glasses, Subproject Project I: Development and Application of High Toughness Performance Thin Film Metallic Glasses (2/3)", report for NSC joint project, supported National Science Council, Project no. NSC 98-2221-E-110-035-MY3 (Year 2), 2011.
 - 66. J. C. Huang, J. S. C. Jang, C. H. Lin, C. H. Chen, J. F. Chuang, C. H. Huang, M. C. Liu, W. C. Lin, Y. Y. Chu, C. B. Li, P. C. Wong, H. C. Lin, H. C. Lee, and Y. S. Lin, and, "Bulk metallic glass foams applied for orthopedic implants", report for NSC national nano project, supported National Science Council, Project no. NSC 100-2120-M-110-004, 2012.
 - 67. J. C. Huang, M. C. Liu, H. J. Pei, C. N. Kuo, S. Y. Kuan, D. H. Sung, C. H. Huang, Y. H. Chen, W. C. Lin, C. H. Chang, C. H. Hsieh, Y. C. Chu, "Advanced Improvement and Application of Metallic Glasses, Main Project (3/3)", report for NSC joint project, supported National Science Council, Project no. NSC 98-2221-E-110-035-MY3 (Year 3), 2012.
 - 68. J. C. Huang, M. C. Liu, H. J. Pei, C. N. Kuo, S. Y. Kuan, D. H. Sung, C. H. Huang, Y. H. Chen, W. C. Lin, C. H. Chang, C. H. Hsieh, Y. C. Chu, "Advanced Improvement and Application of Metallic Glasses, Subproject Project I: Development and Application of High Toughness Performance Thin Film Metallic Glasses (3/3)", report for NSC joint project, supported National Science Council, Project no. NSC 98-2221-E-110-035-MY3 (Year 3), 2012.
 - 69. J. C. Huang, J. S. C. Jang, C. H. Lin, C. T. Pan, C. H. Chen, H. K. Lin, C. H. Huang, Y. Y. Chu, C. B. Li, P. C. Wong, H. C. Lin, H. C. Lee, and Y. S. Lin, and, "Advanced bulk metallic glasses and composites for biomedical and functional applications (1/3)", report for NSC national nano project, supported National Science Council, Project no. NSC 101-2120-M-110-007, 2013.
- 70.70.