

2009 — HIROSE Akio

Scientific Papers/Commentary Articles

1. Akio Hirose, Hiroaki Tatsumi, Naoya Takeda, Yusuke Akada, Tomo Ogura, Eichi Ide and Toshiaki Morita, A Novel Metal-to-Metal Bonding Process through In-situ Formation of Ag Nanoparticles Using Ag₂O Microparticles, *Journal of Physics: Conference Series (JPCS)*, 165, 12074, 2009
2. Tomokazu Sano, Kengo Takahashi, Osami Sakata, Masayuki Okoshi, Narumi Inoue, Kojiro F. Kobayashi, and Akio Hirose, Femtosecond laser-driven shock synthesis of hexagonal diamond from highly oriented pyrolytic graphite, *Journal of Physics: Conference Series (JPCS)*, 165, 12019, 2009
3. Tomo Ogura, Yuichi Saito, Keisuke Ueda and Akio Hirose, Evaluation of Interfacial Microstructures in Dissimilar Joints of Aluminum Alloys to Steel Using Nanoindentation Technique, *Journal of Physics: Conference Series (JPCS)*, 165, 12016, 2009
4. Tomo Ogura, Hidetaka Umeshita, Yuichi Saito and Akio Hirose, Characteristics and Estimation of Interfacial Microstructure with Additional Elements in Dissimilar Joints of Aluminum Alloys to Steel, *Quarterly Journal of JWS*, 27(2), 174-178, 2009
5. Takahiro Tachibana, Shinji Hojo, Shingo Iwatani, Tomo Ogura, Shigeyuki Nakagawa, Kenji Miyamoto and Akio Hirose, Effects of Zinc Insert and Al Content in Mg Alloy on the Bondability in Dissimilar Joints of Steel and Magnesium Alloy, *Quarterly Journal of JWS*, 27(2), 183-186, 2009
6. Yuichi Saito, Hidetaka Umeshita, Tomo Ogura and Akio Hirose, Effects of Copper Alloying on the Bondability of Dissimilar Joints of Aluminum Alloys to Steel, *Quarterly Journal of JWS*, 27(2), 187-191, 2009
7. T. Mashimo, Y. Iguchi, R. Bagum, T. Sano, S. Takeda, S. Kimura, O. Sakata, M. Ono, S. Okayasu, T. Tsurui and K. Hiraga, Formation of amorphous graded structure in Bi₃Pb₇ intermetallic compounds under strong gravitational field, *Defect and Diffusion Forum*, 289-292, 357-360, 2009
8. Tomo Ogura, Akio Hirose and Tatsuo Sato, Effect of PFZ and Grain Boundary Precipitate On Mechanical Properties and Fracture Morphologies in Al-Zn-Mg(Ag) Alloys, *Materials Science Forum*, 638-642, 297-302, 2010

International Conference Proceedings

1. N. Takeda, H. Tatsumi, Y. Akada, T. Ogura, E. Ide, T. Morita and A. Hirose, A Novel

Metal-to-metal Bonding Process Utilizing Low-temperature Sinterability of Ag₂O-derived Ag Nanoparticles, Proc. International Conference on Electronics Packaging 2009 (ICEP2009), 760-765, 2009

2. S. Iwasaki, T. Sano, S. Katsura, K. Yoshida, A. Nakayama and A. Hirose, Patterning of ITO Microwire using Laser-induced Thermal Printing Method, Proc. International Conference on Electronics Packaging 2009 (ICEP2009), 334-338, 2009

Awards

1. N. Takeda, H. Tatsumi, Y. Akada, T. Ogura, E. Ide, T. Morita and A. Hirose, ICEP Best Paper Award, 2009/4/14
2. M. Tsujino, AIRAPT-22 Student poster award, 2010/7/31