

Gap-Yong Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38

papers

1,352

citations

18

h-index

36

g-index

42

ext. papers

1,544

ext. citations

5.1

avg, IF

4.58

L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 38 | Investigation on integrity assessment tests of WRB metal-polymer-metal composites. <i>Archives of Civil and Mechanical Engineering</i> , 2021 , 21, 1 | 3.4 | 1 |
| 37 | Roll-bonding of metal-polymer-metal sandwich composites reinforced by glass whiskers at the interface. <i>Journal of Materials Processing Technology</i> , 2018 , 255, 463-469 | 5.3 | 8 |
| 36 | Fracture behavior of roll bonded Al-brass-Al multilayer composites [Concept of the maximum undamaged defect size (d)]. <i>Procedia Structural Integrity</i> , 2018 , 13, 686-693 | 1 | 6 |
| 35 | A direct adhesion of metal-polymer-metal sandwich composites by warm roll bonding. <i>Journal of Materials Processing Technology</i> , 2017 , 239, 133-139 | 5.3 | 23 |
| 34 | Ultrasonic spray deposition of SiC nanoparticles for laminate metal composite fabrication. <i>Powder Technology</i> , 2016 , 288, 279-285 | 5.2 | 12 |
| 33 | Control of a Magnetostrictive-Actuator-Based Micromachining System for Optimal High-Speed Microforming Process. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1046-1055 | 5.5 | 12 |
| 32 | Experimental study on warm roll bonding of metal/polymer/metal multilayer composites. <i>Journal of Materials Processing Technology</i> , 2015 , 222, 84-90 | 5.3 | 19 |
| 31 | Compaction behavior of Al6061 and SiC binary powder mixture in the mushy state. <i>Journal of Materials Processing Technology</i> , 2015 , 216, 484-491 | 5.3 | 6 |
| 30 | Fabrication of Aluminum/SiC Laminate Nanocomposite by Ultrasonic Spray Deposited Sheet Bonding1. <i>Journal of Micro and Nano-Manufacturing</i> , 2015 , 3, | 1.3 | 1 |
| 29 | Effect of ball milling on graphene reinforced Al6061 composite fabricated by semi-solid sintering. <i>Composites Part B: Engineering</i> , 2014 , 60, 111-118 | 10 | 295 |
| 28 | Effects of Acoustic Softening and Hardening in High-Frequency Vibration-Assisted Punching of Aluminum. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 1184-1189 | 4.1 | 14 |
| 27 | Design and characterization of a flextensional stage based on Terfenol-D actuator. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014 , 15, 135-141 | 1.7 | 13 |
| 26 | Fabrication of Graphene Reinforced Aluminum Composite by Semi-Solid Processing 2013 , | | 6 |
| 25 | Effect of Mechanical Alloying on Al6061-Graphene Composite Fabricated by Semi-Solid Powder Processing 2013 , | | 1 |
| 24 | Acoustic Softening and Hardening of Aluminum in High-Frequency Vibration-Assisted Micro/Meso Forming. <i>Materials and Manufacturing Processes</i> , 2013 , 28, 584-588 | 4.1 | 19 |
| 23 | Modeling of Ni/GO anode in a solid oxide fuel cell deposited by spray pyrolysis. <i>Journal of Power Sources</i> , 2012 , 210, 129-137 | 8.9 | 15 |
| 22 | Mechanical alloying of carbon nanotube and Al6061 powder for metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 532, 558-566 | 5.3 | 27 |

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| 21 | Effects of mechanical alloying on an Al6061/NT composite fabricated by semi-solid powder processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 538, 164-172 | 5.3 | 71 |
| 20 | Effects of superimposed high-frequency vibration on deformation of aluminum in micro/meso-scale upsetting. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 640-646 | 5.3 | 118 |
| 19 | Modeling of Solid Oxide Fuel Cells with Particle Size and Porosity Grading in Anode Electrode. <i>Fuel Cells</i> , 2012 , 12, 97-108 | 2.9 | 19 |
| 18 | Acoustic softening and residual hardening in aluminum: Modeling and experiments. <i>International Journal of Plasticity</i> , 2012 , 39, 75-87 | 7.6 | 137 |
| 17 | Compaction behavior of Al6061 powder in the semi-solid state. <i>Powder Technology</i> , 2011 , 214, 252-258 | 5.2 | 24 |
| 16 | . <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 489-497 | 5.5 | 14 |
| 15 | Gap control for near-dry EDM milling with lead angle. <i>International Journal of Machine Tools and Manufacture</i> , 2011 , 51, 77-83 | 9.4 | 32 |
| 14 | Carbon nanotube reinforced aluminum composite fabricated by semi-solid powder processing. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 1341-1347 | 5.3 | 89 |
| 13 | Microstructural and electrochemical impedance study of nickel _{0.9} Gd _{0.1} O _{1.95} anodes for solid oxide fuel cells fabricated by ultrasonic spray pyrolysis. <i>Journal of Power Sources</i> , 2011 , 196, 3026-3032 | 8.9 | 17 |
| 12 | Experimental Study of High-Frequency Vibration Assisted Micro/Mesoscale Forming of Metallic Materials. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2011 , 133, | 3.3 | 12 |
| 11 | Experimental Study on Viscosity and Phase Segregation of AlBi Powders in Microsemisolid Powder Forming. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2010 , 132, | 3.3 | 18 |
| 10 | Bulk motion for ultrasonic-assisted microforming using Terfenol-D 2010 , | | 1 |
| 9 | Modeling of thermal stresses and lifetime prediction of planar solid oxide fuel cell under thermal cycling conditions. <i>Journal of Power Sources</i> , 2010 , 195, 2310-2318 | 8.9 | 69 |
| 8 | Fabrication of solid oxide fuel cell anode electrode by spray pyrolysis. <i>Journal of Power Sources</i> , 2010 , 195, 7046-7053 | 8.9 | 31 |
| 7 | Fabrication of Al6061 composite with high SiC particle loading by semi-solid powder processing. <i>Acta Materialia</i> , 2010 , 58, 4398-4405 | 8.4 | 55 |
| 6 | Fabrication of High Aspect Ratio Porous Microfeatures Using Hot Compaction Technique. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2008 , 130, | 3.3 | 1 |
| 5 | Experimental and Numerical Investigations on Microcoining of Stainless Steel 304. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2008 , 130, | 3.3 | 26 |
| 4 | Investigations in the compaction and sintering of large ceramic parts. <i>Journal of Materials Processing Technology</i> , 2007 , 190, 243-250 | 5.3 | 24 |

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| 3 | Modeling of the Size Effects on the Behavior of Metals in Microscale Deformation Processes. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2007, 129, 470-476</i> | 3-3 | 98 |
| 2 | An Experimental Investigation on Semi-Solid Forming of Micro/Meso-Scale Features. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2007, 129, 246-251</i> | 3-3 | 9 |
| 1 | Modeling of the Semi-Solid Material Behavior and Analysis of Micro-/Mesoscale Feature Forming. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2007, 129, 237-245</i> | 3-3 | 9 |