

# Gap-Yong Kim

## List of Publications by Citations

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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	Effect of ball milling on graphene reinforced Al6061 composite fabricated by semi-solid sintering. <i>Composites Part B: Engineering</i> , <b>2014</b> , 60, 111-118	10	295
37	Acoustic softening and residual hardening in aluminum: Modeling and experiments. <i>International Journal of Plasticity</i> , <b>2012</b> , 39, 75-87	7.6	137
36	Effects of superimposed high-frequency vibration on deformation of aluminum in micro/meso-scale upsetting. <i>Journal of Materials Processing Technology</i> , <b>2012</b> , 212, 640-646	5.3	118
35	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</i> , <b>2007</b> , 129, 470-476	3.3	98
34	Carbon nanotube reinforced aluminum composite fabricated by semi-solid powder processing. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 1341-1347	5.3	89
33	Effects of mechanical alloying on an Al6061/CNT composite fabricated by semi-solid powder processing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 538, 164-172	5.3	71
32	Modeling of thermal stresses and lifetime prediction of planar solid oxide fuel cell under thermal cycling conditions. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 2310-2318	8.9	69
31	Fabrication of Al6061 composite with high SiC particle loading by semi-solid powder processing. <i>Acta Materialia</i> , <b>2010</b> , 58, 4398-4405	8.4	55
30	Gap control for near-dry EDM milling with lead angle. <i>International Journal of Machine Tools and Manufacture</i> , <b>2011</b> , 51, 77-83	9.4	32
29	Fabrication of solid oxide fuel cell anode electrode by spray pyrolysis. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 7046-7053	8.9	31
28	Mechanical alloying of carbon nanotube and Al6061 powder for metal matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 532, 558-566	5.3	27
27	Experimental and Numerical Investigations on Microcoining of Stainless Steel 304. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2008</b> , 130,	3.3	26
26	Compaction behavior of Al6061 powder in the semi-solid state. <i>Powder Technology</i> , <b>2011</b> , 214, 252-258	5.2	24
25	Investigations in the compaction and sintering of large ceramic parts. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 190, 243-250	5.3	24
24	A direct adhesion of metal-polymer-metal sandwich composites by warm roll bonding. <i>Journal of Materials Processing Technology</i> , <b>2017</b> , 239, 133-139	5.3	23
23	Experimental study on warm roll bonding of metal/polymer/metal multilayer composites. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 222, 84-90	5.3	19
22	Modeling of Solid Oxide Fuel Cells with Particle Size and Porosity Grading in Anode Electrode. <i>Fuel Cells</i> , <b>2012</b> , 12, 97-108	2.9	19

21	Acoustic Softening and Hardening of Aluminum in High-Frequency Vibration-Assisted Micro/Meso Forming. <i>Materials and Manufacturing Processes</i> , <b>2013</b> , 28, 584-588	4.1	19
20	Experimental Study on Viscosity and Phase Segregation of AlSi Powders in Microsemisolid Powder Forming. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2010</b> , 132,	3.3	18
19	Microstructural and electrochemical impedance study of nickelTe0.9Gd0.1O1.95 anodes for solid oxide fuel cells fabricated by ultrasonic spray pyrolysis. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 3026-3032	8.9	17
18	Modeling of NiTiGO anode in a solid oxide fuel cell deposited by spray pyrolysis. <i>Journal of Power Sources</i> , <b>2012</b> , 210, 129-137	8.9	15
17	Effects of Acoustic Softening and Hardening in High-Frequency Vibration-Assisted Punching of Aluminum. <i>Materials and Manufacturing Processes</i> , <b>2014</b> , 29, 1184-1189	4.1	14
16	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2011</b> , 16, 489-497	5.5	14
15	Design and characterization of a flextensional stage based on Terfenol-D actuator. <i>International Journal of Precision Engineering and Manufacturing</i> , <b>2014</b> , 15, 135-141	1.7	13
14	Control of a Magnetostrictive-Actuator-Based Micromachining System for Optimal High-Speed Microforming Process. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 20, 1046-1055	5.5	12
13	Ultrasonic spray deposition of SiC nanoparticles for laminate metal composite fabrication. <i>Powder Technology</i> , <b>2016</b> , 288, 279-285	5.2	12
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> , <b>2011</b> , 133,	3.3	12
11	An Experimental Investigation on Semi-Solid Forming of Micro/Meso-Scale Features. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2007</b> , 129, 246-251	3.3	9
10	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</i> , <b>2007</b> , 129, 237-245	3.3	9
9	Roll-bonding of metal-polymer-metal sandwich composites reinforced by glass whiskers at the interface. <i>Journal of Materials Processing Technology</i> , <b>2018</b> , 255, 463-469	5.3	8
8	Compaction behavior of Al6061 and SiC binary powder mixture in the mushy state. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 216, 484-491	5.3	6
7	Fabrication of Graphene Reinforced Aluminum Composite by Semi-Solid Processing <b>2013</b> ,		6
6	Fracture behavior of roll bonded Al-brass-Al multilayer composites [Concept of the maximum undamaged defect size (d)]. <i>Procedia Structural Integrity</i> , <b>2018</b> , 13, 686-693	1	6
5	Fabrication of AluminumSiC Laminate Nanocomposite by Ultrasonic Spray Deposited Sheet Bonding1. <i>Journal of Micro and Nano-Manufacturing</i> , <b>2015</b> , 3,	1.3	1
4	Effect of Mechanical Alloying on Al6061-Graphene Composite Fabricated by Semi-Solid Powder Processing <b>2013</b> ,		1

- 3 Bulk motion for ultrasonic-assisted microforming using Terfenol-D **2010**, 1
- 2 Fabrication of High Aspect Ratio Porous Microfeatures Using Hot Compaction Technique. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2008**, 130, 3-3 1
- 1 Investigation on integrity assessment tests of WRB metal-polymer-metal composites. *Archives of Civil and Mechanical Engineering*, **2021**, 21, 1 3-4 1