

Sang-Hu Park

List of Publications by Year in descending order

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65
papers

614
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686830

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67
times ranked

567
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-lattice inner structures for high-strength and light-weight in metal selective laser melting process. <i>Materials and Design</i> , 2019, 175, 107786.	3.3	116
2	Three-dimensional plasmonic Ag/TiO ₂ nanocomposite architectures on flexible substrates for visible-light photocatalytic activity. <i>Scientific Reports</i> , 2017, 7, 8915.	1.6	37
3	Ultrasonic nanocrystal surface modification of high-speed tool steel (AISI M4) layered via direct energy deposition. <i>Journal of Materials Processing Technology</i> , 2020, 277, 116420.	3.1	35
4	Influence of heat treatment on wear behavior and impact toughness of AISI M4 coated by laser melting deposition. <i>Surface and Coatings Technology</i> , 2017, 328, 219-230.	2.2	32
5	Multi-dimensional lattices design for ultrahigh specific strength metallic structure in additive manufacturing. <i>Materials and Design</i> , 2021, 201, 109479.	3.3	26
6	Design and experimental verification of flexible plate-type piezoelectric vibrator for energy harvesting system. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2016, 3, 253-259.	2.7	24
7	Development of an automatic orbital welding system with robust weaving width control and a seam-tracking function for narrow grooves. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 767-777.	1.5	23
8	Shape-controlled 3D Periodic Metal Nanostructures Fabricated via Nanowelding. <i>Small</i> , 2018, 14, 1703102.	5.2	20
9	Manufacturing and mechanical evaluation of cooled cooling air (CCA) heat exchanger for aero engine. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016, 17, 1195-1200.	1.1	19
10	Eight Inch Wafer-Scale Flexible Polarization-Dependent Color Filters with Ag-TiO ₂ Composite Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9188-9196.	4.0	19
11	Micro-Cracking in Medium-Carbon Steel Layers Additively Deposited on Gray Cast Iron Using Directed Energy Deposition. <i>Metals and Materials International</i> , 2020, 26, 708-718.	1.8	14
12	Generation of various wrinkle shapes on single surface by controlling thickness of weakly polymerized layer. <i>Materials Letters</i> , 2015, 155, 125-129.	1.3	13
13	Effects of polymer surface energy on morphology and properties of silver nanowire fabricated via nanoimprint and E-beam evaporation. <i>Applied Surface Science</i> , 2017, 420, 429-438.	3.1	13
14	Conical roll-twist-bending process for fabrication of metallic Archimedes spiral blade used in small wind power generator. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2017, 4, 431-439.	2.7	13
15	A simple method to generate hierarchical nanoscale structures on microwrinkles for hydrophobic applications. <i>Materials Letters</i> , 2013, 105, 50-53.	1.3	12
16	Metal embedding and ultrasonic nanocrystal surface modification technology for super wear-resistant mechanical parts. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 951-962.	1.5	12
17	Generation of periodic surface wrinkles using a single layer resin by a repetitive dividing volume (RDV) technique. <i>Microelectronic Engineering</i> , 2013, 106, 13-20.	1.1	11
18	Fabrication of micro-scale wrinkles on a curved surface using weak-polymerization and surface shrinkage. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 2469-2471.	1.1	11

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19	Effective formation of hierarchical wavy shapes using weak photopolymerization and gradual thermal curing process. <i>Materials Letters</i> , 2015, 141, 47-54.	1.3	11
20	Nanopattern-Embedded Micropillar Structures for Security Identification. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30401-30410.	4.0	11
21	Surface machining effect on material behavior of additive manufactured SUS 316L. <i>Journal of Materials Research and Technology</i> , 2021, 13, 38-47.	2.6	11
22	Heterogeneous Nanostructures Fabricated via Binding Energy-Controlled Nanowelding. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7261-7271.	4.0	9
23	Control of Local Hardness Gradient of Metal Surface by Inclined Surface Treatment Using Ultrasonic Nanocrystal Surface Modification. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 533-546.	2.7	9
24	Effect of substrate reflecting conditions on the curing of UV curable resin layers on aluminum and the formation of surface wavy structures. <i>Materials Letters</i> , 2016, 164, 23-27.	1.3	7
25	Application of ultrasonic nanocrystal surface modification for improving surface profile of DEDed AISI 316L. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 5659-5667.	0.7	7
26	Characterization of mechanical behavior in repaired FC300 using directly deposited AISI-P21 and AISI-H13 metal powders. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2020, 234, 157-169.	1.5	7
27	A study on a flexible wing with up–down vibration in a pulsating flow of cooling air to improve heat transfer efficiency. <i>Heat and Mass Transfer</i> , 2013, 49, 1459-1470.	1.2	6
28	Investigation into structural reliability of a brazed part in cross-corrugated plates. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 251-258.	1.1	6
29	Effects of Ultrasonic Nanocrystal Surface Modification on Mechanical Properties of AISI D2 Steel. <i>International Journal of Precision Engineering and Manufacturing</i> , 2021, 22, 1271-1284.	1.1	6
30	Effect of carbon content in steel powder feedstock on impact toughness and microstructure of additively manufactured cast iron by directed energy deposition. <i>Journal of Materials Research and Technology</i> , 2021, 15, 189-198.	2.6	6
31	Effective Design of Cushioning Package to Improve Shockproof Characteristics of Large-Sized Home Appliances#. <i>Mechanics Based Design of Structures and Machines</i> , 2009, 37, 1-14.	3.4	5
32	Analysis on Chemical and Physical Behaviors of Polyurethane Foam for Prediction of Deformation of Refrigerator Panels. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019, 20, 2041-2049.	1.1	5
33	Vickers crack extension and residual fracture strength of annealed and thermally tempered glass in water. <i>Journal of the European Ceramic Society</i> , 2022, 42, 1743-1749.	2.8	5
34	Fabrication of High-Aspect-Ratio Microscale Polymer Hairs Having Surface Wrinkles. <i>Porrime</i> , 2013, 37, 1-4.	0.0	4
35	Numerical study on the thermal and flow characteristics of periodically formed inner wavy structures in a cooling channel. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 3911-3917.	0.7	3
36	Evaluation of directional mechanical properties of 3D printed polymer parts. , 2015, , .		3

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37	Local Wrinkle Patterning with Controlled Morphologies on a Membrane. International Journal of Precision Engineering and Manufacturing, 2019, 20, 1415-1421.	1.1	3
38	Three-dimensional fin-tube expansion process to achieve high heat transfer efficiency in heat exchangers. Journal of Mechanical Science and Technology, 2019, 33, 4401-4406.	0.7	3
39	Design and fabrication of fluid flow characteristic controllable trawl door using a trailing edge flap. Journal of Mechanical Science and Technology, 2019, 33, 5623-5630.	0.7	3
40	Design of flat broadband sound insulation metamaterials by combining Helmholtz resonator and fractal structure. Journal of Mechanical Science and Technology, 2021, 35, 2809-2817.	0.7	3
41	Process Design of Conical Roll-Shaping for Fabrication of Variable Curvature Spiral Blade. Journal of the Korean Society for Precision Engineering, 2016, 33, 911-918.	0.1	3
42	Experimental Analysis on Multilayer Cladding Using AISI-M4/H13 Metal Powders for Enhancement of Wear Resistance and Shockproof Characteristics. Journal of the Korean Society for Precision Engineering, 2019, 36, 1059-1064.	0.1	3
43	Investigation of stress fields for non-standard sized glass plates loaded by ring-on-ring. Journal of the European Ceramic Society, 2022, 42, 2429-2440.	2.8	3
44	Additive-Manufactured Flexible Triboelectric Sensor Based on Porous PDMS Sponge for Highly Detecting Joint Movements. International Journal of Precision Engineering and Manufacturing - Green Technology, 2023, 10, 97-107.	2.7	3
45	Metallization of microscale wrinkles on a curved surface by contact and electro-replication method. International Journal of Advanced Manufacturing Technology, 2017, 92, 1165-1172.	1.5	2
46	CFD analysis of effects on fluid flow resistance of metallic wavy structures. Journal of Mechanical Science and Technology, 2018, 32, 1705-1711.	0.7	2
47	Methods of Improving Mechanical Integrity of Center-Link Chains for a Trolley Conveyor System. International Journal of Precision Engineering and Manufacturing, 2019, 20, 301-312.	1.1	2
48	Design of a Lumbar Interspinous Fixation Device for Minimally Invasive Surgery and Spine Motion Stabilization. Journal of Medical and Biological Engineering, 2020, 40, 1-10.	1.0	2
49	Fundamental Study on Heat Transfer Enhancement Effect of Microscale Surface Wrinkles. Korean Journal of Air-Conditioning and Refrigeration Engineering, 2014, 26, 447-452.	0.1	2
50	Analysis on Deformation Behavior and Restructuring of Additive Manufactured Metal Lattice-Structures under Compressive Loading Condition. Journal of the Korean Society for Precision Engineering, 2020, 37, 625-631.	0.1	2
51	Out-of-plane stretching for simultaneous generation of different morphological wrinkles on a soft matter. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	1
52	Development of a perpendicular vibration-induced electrical discharge machining process for fabrication of partially wavy inner structures. Journal of Mechanical Science and Technology, 2016, 30, 2257-2263.	0.7	1
53	Morphology and surface characteristic control of dimpled wrinkles using microscale water-soluble powders. Journal of Mechanical Science and Technology, 2017, 31, 5429-5433.	0.7	1
54	Control of crack propagation on SUS316 plate by laser-induced patterning: heat treatment and cladding. Journal of Mechanical Science and Technology, 2020, 34, 4711-4719.	0.7	1

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55	Experimental Study of Dynamic Behavior of a Water Droplet on Diverse Wrinkling Surfaces. Journal of the Korean Society for Precision Engineering, 2015, 32, 577-585.	0.1	1
56	Relationship between Mechanical Properties and Porosity of Porous Polymer Sheet Fabricated using Water-soluble Particles. Journal of the Korean Society of Manufacturing Process Engineers, 2018, 17, 16-23.	0.1	1
57	Step-and-repeat stamping method for the generation of large-area microscale wrinkle patterns. Journal of Mechanical Science and Technology, 2017, 31, 1893-1898.	0.7	0
58	Additive Manufacturing Based Design of Metal Continuous Flow Reactor of Inner Micro Structure for Continuous Mixing and Reaction of Chemical Solvents. Journal of the Korean Society for Precision Engineering, 2021, 38, 659-666.	0.1	0
59	Analysis on Material Behavior of Metal Additive Manufactured Lattice Structures under Quarter Compression Test. Journal of the Korean Society for Precision Engineering, 2021, 38, 667-673.	0.1	0
60	Study on Structural Design of Archimedes Wind-Power Mill. Journal of the Korean Society for Precision Engineering, 2018, 35, 463-468.	0.1	0
61	Basic Experimental Study on Fin-Tube Expansion Process Using an Additive Manufactured Spiral-Grooved-Expanding Ball. Journal of the Korean Society for Precision Engineering, 2019, 36, 667-673.	0.1	0
62	Basic Experimental Study on Fin-Tube Expansion Process Using an Additive Manufactured Spiral-Grooved-Expanding Ball. Journal of the Korean Society for Precision Engineering, 2019, 36, 667-673.	0.1	0
63	Numerical prediction of dynamic fracture strength of edge-mounted non-symmetric tempered glass panels under steel ball drop impact. Journal of Materials Research and Technology, 2022, 17, 270-270.	2.6	0
64	Improvement of Dielectric Polarization Characteristic for a Highly Sensitive Flexible Triboelectric Sensor. Journal of the Korean Society for Precision Engineering, 2022, 39, 357-362.	0.1	0
65	Mechanical Reliability of Polypropylene Blade of Wind Power Generator under Environmental Operating Condition by Accelerated UV-Light Deterioration Test. Journal of the Korean Society for Precision Engineering, 2022, 39, 411-416.	0.1	0