

Sung-Hoon Ahn

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.

198
papers

6,693
citations

41
h-index

76
g-index

211
ext. papers

8,002
ext. citations

4.5
avg, IF

6.34
L-index

#	Paper	IF	Citations
198	Broken stitch detection method for sewing operation using CNN feature map and image-processing techniques. <i>Expert Systems With Applications</i> , 2022 , 188, 116014	7.8	3
197	Surface Nanopatterned Shape Memory Alloy (SMA)-Based Photosensitive Artificial Muscle. <i>Advanced Optical Materials</i> , 2022 , 10, 2102024	8.1	0
196	Appropriate Smart Factory : Demonstration of Applicability to Industrial Safety. <i>Academic Society for Appropriate Technology</i> , 2021 , 7, 196-205		0
195	Lithography-free and Highly Angle Sensitive Structural Coloration Using FabryPerot Resonance of Tin. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021 , 8, 997-1006	3.8	5
194	A Multiscale Adhesion Model for Deposition Prediction in Laser Enhanced Nanoparticle Deposition Process. <i>Acta Materialia</i> , 2021 , 208, 116740	8.4	0
193	Interoperable Nanoparticle Sensor Capable of Strain and Vibration Measurement for Rotor Blade Monitoring. <i>Sensors</i> , 2021 , 21,	3.8	1
192	Vaccine Cold Chain Monitoring System Using IoT Vaccine Fridge for Developing Countries. <i>Academic Society for Appropriate Technology</i> , 2021 , 7, 26-32		
191	Demand-side management for off-grid solar-powered microgrids: A case study of rural electrification in Tanzania. <i>Energy</i> , 2021 , 224, 120229	7.9	4
190	Arduino-based low-cost electrical load tracking system with a long-range mesh network. <i>Advances in Manufacturing</i> , 2021 , 9, 47-63	2.7	1
189	Appropriate Smart Factory for SMEs: Concept, Application and Perspective. <i>International Journal of Precision Engineering and Manufacturing</i> , 2021 , 22, 201-215	1.7	10
188	Off-grid hybrid renewable energy systems and their contribution to sustainable development goals 2021 , 75-89		
187	Sound-based remote real-time multi-device operational monitoring system using a Convolutional Neural Network (CNN). <i>Journal of Manufacturing Systems</i> , 2021 , 58, 431-441	9.1	8
186	Shape memory alloy-driven undulatory locomotion of a soft biomimetic ray robot. <i>Bioinspiration and Biomimetics</i> , 2021 , 16,	2.6	1
185	. <i>IEEE Access</i> , 2021 , 9, 49055-49068	3.5	1
184	Shape memory textile composites with multi-mode actuations for soft morphing skins. <i>Composites Part B: Engineering</i> , 2020 , 198, 108170	10	22
183	Direct printing of performance tunable strain sensor via nanoparticle laser patterning process. <i>Virtual and Physical Prototyping</i> , 2020 , 15, 265-277	10.1	6
182	Evaluation of Industry 4.0 Data formats for Digital Twin of Optical Components. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020 , 7, 573-584	3.8	7

181	Off-Grid Power Plant Load Management System Applied in a Rural Area of Africa. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4171	2.6	2
180	Spherical Mirror and Surface Patterning on Silicon Carbide (SiC) by Material Removal Rate Enhancement Using CO ₂ Laser Assisted Polishing. <i>International Journal of Precision Engineering and Manufacturing</i> , 2020 , 21, 775-785	1.7	7
179	Shape Memory Alloy-Based Microscale Bending Actuator Fabricated by a Focused Ion Beam Chemical Vapor Deposition (FIB-CVD) Gap-Filling Process. <i>International Journal of Precision Engineering and Manufacturing</i> , 2020 , 21, 491-498	1.7	5
178	Design and Analysis of Artificial Muscle Robotic Elbow Joint Using Shape Memory Alloy Actuator. <i>International Journal of Precision Engineering and Manufacturing</i> , 2020 , 21, 249-256	1.7	7
177	Hybrid CO ₂ laser-polishing process for improving material removal of silicon carbide. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 106, 3139-3151	3.2	5
176	Real-time prediction and anomaly detection of electrical load in a residential community. <i>Applied Energy</i> , 2020 , 259, 114145	10.7	27
175	Shape Memory Alloy-Based Soft Finger with Changeable Bending Length Using Targeted Variable Stiffness. <i>Soft Robotics</i> , 2020 , 7, 283-291	9.2	21
174	Directly Printed Low-Cost Nanoparticle Sensor for Vibration Measurement during Milling Process. <i>Materials</i> , 2020 , 13,	3.5	2
173	Deposition of Durable Micro Copper Patterns into Glass by Combining Laser-Induced Backside Wet Etching and Laser-Induced Chemical Liquid Phase Deposition Methods. <i>Materials</i> , 2020 , 13,	3.5	5
172	Stretchable chipless RFID multi-strain sensors using direct printing of aerosolised nanocomposite. <i>Sensors and Actuators A: Physical</i> , 2020 , 313, 112224	3.9	10
171	Image-based failure detection for material extrusion process using a convolutional neural network. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 111, 1291-1302	3.2	10
170	50 nm Scale Alignment Method for Hybrid Manufacturing Processes for Full 3D Structuring. <i>International Journal of Precision Engineering and Manufacturing</i> , 2020 , 21, 2407-2417	1.7	
169	Power Consumption Assessment of Machine Tool Feed Drive Units. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020 , 7, 455-464	3.8	11
168	Smart sewing work measurement system using IoT-based power monitoring device and approximation algorithm. <i>International Journal of Production Research</i> , 2020 , 58, 6202-6216	7.8	7
167	Hybrid composite actuator with shape retention capability for morphing flap of unmanned aerial vehicle (UAV). <i>Composite Structures</i> , 2020 , 243, 112227	5.3	7
166	Stretchable Biaxial and Shear Strain Sensors Using Diffractive Structural Colors. <i>ACS Nano</i> , 2020 , 14, 5392-5399	26.7	27
165	Preface for the Special Issue of Energy Harvesting. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019 , 6, 669-670	3.8	3
164	Novel design of hollow g-CN nanofibers decorated with MoS and S, N-doped graphene for ternary heterostructures. <i>Dalton Transactions</i> , 2019 , 48, 2170-2178	4.3	14

163	Evaluation of dual layered photoanode for enhancement of visible-light-driven applications.. <i>RSC Advances</i> , 2019 , 9, 16375-16383	3.7	2
162	Highly Sensitive Solvent-free Silver Nanoparticle Strain Sensors with Tunable Sensitivity Created Using an Aerodynamically Focused Nanoparticle Printer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26421-26432	9.5	15
161	Simulation of electrical conductivity for nanoparticles and nanotubes composite sensor according to geometrical properties of nanomaterials. <i>Composites Part B: Engineering</i> , 2019 , 174, 107003	10	7
160	Research Trends in Sustainable Manufacturing: A Review and Future Perspective based on Research Databases. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019 , 6, 809-819	3.8	27
159	Colour-tunable 50% strain sensor using surface-nanopatterning of soft materials via nanoimprinting with focused ion beam milling process. <i>CIRP Annals - Manufacturing Technology</i> , 2019 , 68, 595-598	4.9	10
158	Preference for Case Materials in Smart Devices: A Comparative Study in Korea, USA, and Tanzania. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019 , 20, 749-767	1.7	3
157	Significant thermal conductivity reduction of CVD graphene with relatively low hole densities fabricated by focused ion beam processing. <i>Applied Physics Letters</i> , 2019 , 114, 051905	3.4	5
156	Tuning Intercrystalline Void-like Defects in Nanowire Clusters to TiO ₂ Quantum Wires with Enhanced Photocatalytic Performance. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5643-5655	6.1	1
155	Assessment of Socio-Demographic Factors, Mother and Child Health Status, Water, Sanitation, and Hygienic Conditions Existing in a Hilly Rural Village of Nepal. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	2
154	A Low-Cost Vision-Based Monitoring of Computer Numerical Control (CNC) Machine Tools for Small and Medium-Sized Enterprises (SMEs). <i>Sensors</i> , 2019 , 19,	3.8	14
153	Laser Controlled 65 Micrometer Long Microrobot Made of Ni-Ti Shape Memory Alloy. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900583	6.8	10
152	Direct printing of highly sensitive, stretchable, and durable strain sensor based on silver nanoparticles/multi-walled carbon nanotubes composites. <i>Composites Part B: Engineering</i> , 2019 , 161, 395-401	10	68
151	Simulation of dynamic growth rate of focused ion beam-induced deposition using Hausdorff distance. <i>Sensors and Actuators A: Physical</i> , 2019 , 286, 169-177	3.9	1
150	Soft grasping mechanisms composed of shape memory polymer based self-bending units. <i>Composites Part B: Engineering</i> , 2019 , 164, 198-204	10	34
149	Soft Tendril-Inspired Grippers: Shape Morphing of Programmable Polymer-Paper Bilayer Composites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10419-10427	9.5	80
148	Bulk density measurement of porous functionally graded materials. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018 , 19, 31-37	1.7	11
147	Shape Memory Alloy (SMA)-Based Microscale Actuators with 60% Deformation Rate and 1.6 kHz Actuation Speed. <i>Small</i> , 2018 , 14, e1801023	11	31
146	Investigation of Varying Particle Sizes of Dry-Deposited WO ₃ Particles in Relation to Performance of Electrochromic Cell. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018 , 5, 409-414	3.8	8

145	Microstructural Control of the Electrochromic and Ion Storage Layers on the Performance of an Electrochromic Device Fabricated by the Kinetic Spray Technique. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018 , 5, 231-238	3.8	6
144	Smart Machining Process Using Machine Learning: A Review and Perspective on Machining Industry. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018 , 5, 555-568	3.8	112
143	Preface for the Special Issue of Sustainable Manufacturing in 4th Industrial Revolution. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018 , 5, 457-457	3.8	4
142	Controlled kinetic Monte Carlo simulation of laser improved nano particle deposition process. <i>Powder Technology</i> , 2018 , 325, 651-658	5.2	4
141	Low temperature fabrication of FeO nanorod film coated with ultra-thin g-CN for a direct z-scheme exerting photocatalytic activities.. <i>RSC Advances</i> , 2018 , 8, 33600-33613	3.7	16
140	Resistive pressure sensor based on cylindrical micro structures in periodically ordered electrospun elastic fibers. <i>Smart Materials and Structures</i> , 2018 , 27, 11LT01	3.4	10
139	Direct coating of a g-CN layer onto one-dimensional TiO nanocluster/nanorod films for photoactive applications. <i>Dalton Transactions</i> , 2018 , 47, 7237-7244	4.3	8
138	Modular assembly of soft deployable structures and robots. <i>Materials Horizons</i> , 2017 , 4, 367-376	14.4	32
137	Socio-economic impact of renewable energy-based power system in mountainous villages of Nepal. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2017 , 4, 37-44	3.8	16
136	Blooming Knit Flowers: Loop-Linked Soft Morphing Structures for Soft Robotics. <i>Advanced Materials</i> , 2017 , 29, 1606580	24	46
135	An Overview of Shape Memory Alloy-Coupled Actuators and Robots. <i>Soft Robotics</i> , 2017 , 4, 3-15	9.2	111
134	Hybrid 3D printing by bridging micro/nano processes. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 065006	2	5
133	Evaluation of a multi-dimensional hybrid photocatalyst for enrichment of H ₂ evolution and elimination of dye/non-dye pollutants. <i>Catalysis Science and Technology</i> , 2017 , 7, 2579-2590	5.5	42
132	Site-specific characterization of beetle horn shell with micromechanical bending test in focused ion beam system. <i>Acta Biomaterialia</i> , 2017 , 57, 395-403	10.8	4
131	Curved shape memory alloy-based soft actuators and application to soft gripper. <i>Composite Structures</i> , 2017 , 176, 398-406	5.3	61
130	Advanced scanning paths for focused ion beam milling. <i>Vacuum</i> , 2017 , 143, 40-49	3.7	10
129	Design and Fabrication of Soft Morphing Ray Propulsor: Undulator and Oscillator. <i>Soft Robotics</i> , 2017 , 4, 49-60	9.2	40
128	"On the Dot"-The Timing of Self-Assembled Growth to the Quantum Scale. <i>Chemistry - A European Journal</i> , 2017 , 23, 8104-8117	4.8	6

127	Kirigami/Origami-Based Soft Deployable Reflector for Optical Beam Steering. <i>Advanced Functional Materials</i> , 2017 , 27, 1604214	15.6	57
126	Shape Memory Alloy-Based Soft Gripper with Variable Stiffness for Compliant and Effective Grasping. <i>Soft Robotics</i> , 2017 , 4, 379-389	9.2	137
125	Effect of laser-excited ceramic nanoparticles on hardness and porosity of dry-sprayed coating. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 519-522	4.9	4
124	From 3D to 4D printing [Design, material and fabrication for multi-functional multi-materials. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2017 , 4, 291-299	3.8	40
123	Preface for the special issue of 4D printing. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2017 , 4, 265-265	3.8	3
122	Direct Printing of Strain Sensors via Nanoparticle Printer for the Applications to Composite Structural Health Monitoring. <i>Procedia CIRP</i> , 2017 , 66, 238-242	1.8	24
121	Pulse width modulation as energy-saving strategy of shape memory alloy based smart soft composite actuator. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017 , 18, 895-901	1.7	10
120	CAD/CAM for scalable nanomanufacturing: A network-based system for hybrid 3D printing. <i>Microsystems and Nanoengineering</i> , 2017 , 3, 17072	7.7	4
119	Ionic liquid-induced synthesis of a graphene intercalated ferrocene nanocatalyst and its environmental application. <i>Applied Catalysis B: Environmental</i> , 2016 , 182, 326-335	21.8	8
118	Soft morphing hand driven by SMA tendon wire. <i>Composites Part B: Engineering</i> , 2016 , 105, 138-148	10	60
117	Design and evaluation of micro-cutting tools for local planarization. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 1267-1273	1.7	8
116	A review on fabrication processes for electrochromic devices. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2016 , 3, 397-421	3.8	49
115	Room-temperature synthesis of nanoporous 1D microrods of graphitic carbon nitride (g-C ₃ N ₄) with highly enhanced photocatalytic activity and stability. <i>Scientific Reports</i> , 2016 , 6, 31147	4.9	122
114	Deployable Soft Composite Structures. <i>Scientific Reports</i> , 2016 , 6, 20869	4.9	51
113	Optimization of hybrid renewable energy power system for remote installations: Case studies for mountain and island. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 815-822	1.7	20
112	Soft composite hinge actuator and application to compliant robotic gripper. <i>Composites Part B: Engineering</i> , 2016 , 98, 397-405	10	53
111	A Simplified Machine-Tool Power-Consumption Measurement Procedure and Methodology for Estimating Total Energy Consumption. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016 , 138,	3.3	15
110	Room-Temperature Fabrication of a Flexible Thermoelectric Generator Using a Dry-Spray Deposition System. <i>Journal of Electronic Materials</i> , 2016 , 45, 2286-2290	1.9	6

109	Effect of twist morphing wing segment on aerodynamic performance of UAV. <i>Journal of Mechanical Science and Technology</i> , 2016 , 30, 229-236	1.6	27
108	Shape memory alloy/glass fiber woven composite for soft morphing winglets of unmanned aerial vehicles. <i>Composite Structures</i> , 2016 , 140, 202-212	5.3	41
107	Woven type smart soft composite for soft morphing car spoiler. <i>Composites Part B: Engineering</i> , 2016 , 86, 285-298	10	38
106	Comparison of mold designs for SMA-based twisting soft actuator. <i>Sensors and Actuators A: Physical</i> , 2016 , 237, 96-106	3.9	18
105	Flexible ceramic-elastomer composite piezoelectric energy harvester fabricated by additive manufacturing. <i>Journal of Composite Materials</i> , 2016 , 50, 1573-1579	2.7	12
104	Minimization of Recombination Losses in 3D Nanostructured TiO ₂ Coated with Few Layered g-C ₃ N ₄ for Extended Photo-response. <i>Journal of the Korean Ceramic Society</i> , 2016 , 53, 393-399	2.2	9
103	Tool-wear monitoring during micro-end milling using wavelet packet transform and Fisher's linear discriminant. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 845-855	1.7	24
102	35 Hz shape memory alloy actuator with bending-twisting mode. <i>Scientific Reports</i> , 2016 , 6, 21118	4.9	60
101	Stable and magnetically reusable nanoporous magnetite micro/nanospheres for rapid extraction of carcinogenic contaminants from water. <i>RSC Advances</i> , 2016 , 6, 34297-34311	3.7	8
100	Turtle mimetic soft robot with two swimming gaits. <i>Bioinspiration and Biomimetics</i> , 2016 , 11, 036010	2.6	51
99	Novel fabrication of an electrochromic antimony-doped tin oxide film using a nanoparticle deposition system. <i>Applied Surface Science</i> , 2016 , 377, 370-375	6.7	18
98	Design and analysis of a smart soft composite structure for various modes of actuation. <i>Composites Part B: Engineering</i> , 2016 , 95, 155-165	10	20
97	From design for manufacturing (DFM) to manufacturing for design (MFD) via hybrid manufacturing and smart factory: A review and perspective of paradigm shift. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2016 , 3, 209-222	3.8	51
96	Future perspectives of sustainable manufacturing and applications based on research databases. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 1249-1263	1.7	15
95	Optimization of hybrid renewable energy power systems: A review. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2015 , 2, 99-112	3.8	188
94	Nanoscale 3D printing process using aerodynamically focused nanoparticle (AFN) printing, micro-machining, and focused ion beam (FIB). <i>CIRP Annals - Manufacturing Technology</i> , 2015 , 64, 523-526	4.9	17
93	Dielectric characteristics of a barium titanate film deposited by Nano Particle Deposition System (NPDS). <i>International Journal of Precision Engineering and Manufacturing</i> , 2015 , 16, 1029-1034	1.7	5
92	Gold nanoparticle modified graphitic carbon nitride/multi-walled carbon nanotube (g-C ₃ N ₄ /CNTs/Au) hybrid photocatalysts for effective water splitting and degradation. <i>RSC Advances</i> , 2015 , 5, 24281-24292	3.7	108

91	SMA-based smart soft composite structure capable of multiple modes of actuation. <i>Composites Part B: Engineering</i> , 2015 , 82, 152-158	10	44
90	A smart soft actuator using a single shape memory alloy for twisting actuation. <i>Smart Materials and Structures</i> , 2015 , 24, 125033	3-4	32
89	3D soft lithography: A fabrication process for thermocurable polymers. <i>Journal of Materials Processing Technology</i> , 2015 , 217, 302-309	5-3	19
88	A review of electrically-assisted manufacturing. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2015 , 2, 365-376	3-8	83
87	Design and development of bio-mimetic soft robotic hand with shape memory alloy 2015 ,		4
86	Preface for the special issue of ISGMA 2014. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015 , 16, 1227-1227	1-7	
85	Smart soft composite actuator with shape retention capability using embedded fusible alloy structures. <i>Composites Part B: Engineering</i> , 2015 , 78, 507-514	10	53
84	Shape memory alloy (SMA)-based head and neck immobilizer for radiotherapy. <i>Journal of Computational Design and Engineering</i> , 2015 , 2, 176-182	4-6	8
83	Fabrication of wrist-like SMA-based actuator by double smart soft composite casting. <i>Smart Materials and Structures</i> , 2015 , 24, 125003	3-4	39
82	Design and 3D printing of controllable-pitch archimedean screw for pico-hydropower generation. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 4851-4857	1-6	8
81	A shape memory alloy based soft morphing actuator capable of pure twisting motion. <i>Journal of Intelligent Material Systems and Structures</i> , 2015 , 26, 1071-1078	2-3	25
80	Smart Phone Robot Made of Smart Soft Composite (SSC). <i>Composites Research</i> , 2015 , 28, 52-57		14
79	0214 Acceleration and Deceleration Characteristics of Power Consumption on Machine Tool Feed Drive. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2015 , 2015.8, _0214-1_-_0214-5_		
78	Multilayer deposition of ceramic and metal at room temperature using nanoparticle deposition system (NPDS) and planarization process. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 72, 41-46	3-2	13
77	Cellulose nanofiber assisted deposition of titanium dioxide on fluorine-doped tin oxide glass. <i>RSC Advances</i> , 2014 , 4, 987-991	3-7	4
76	Mathematical modeling of hybrid renewable energy system: A review on small hydro-solar-wind power generation. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2014 , 1, 157-173	3-8	157
75	Bio-inspired deposition of silver nano-particles (AgNPs) on silicon substrate. <i>Materials Letters</i> , 2014 , 116, 175-177	3-3	1
74	Locomotion of inchworm-inspired robot made of smart soft composite (SSC). <i>Bioinspiration and Biomimetics</i> , 2014 , 9, 046006	2-6	118

73	A novel off-grid hybrid power system comprised of solar photovoltaic, wind, and hydro energy sources. <i>Applied Energy</i> , 2014 , 133, 236-242	10.7	159
72	Mechanical behavior of microscale carbon pillar fabricated by focused ion beam induced deposition. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014 , 15, 1485-1488	1.7	5
71	A comparison of energy consumption in bulk forming, subtractive, and additive processes: Review and case study. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2014 , 1, 261-279	3.8	201
70	Aerodynamically focused nanoparticle (AFN) printing: novel direct printing technique of solvent-free and inorganic nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16466-71	9.5	24
69	Research advancement of green technologies. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014 , 15, 973-977	1.7	20
68	Cross-shaped twisting structure using SMA-based smart soft composite. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2014 , 1, 153-156	3.8	40
67	Empirical power-consumption model for material removal in three-axis milling. <i>Journal of Cleaner Production</i> , 2014 , 78, 54-62	10.3	72
66	Energy consumption of the brushing process for PCB manufacturing based on a friction model. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014 , 15, 2265-2272	1.7	6
65	Evaluation of ionic liquids as lubricants in micro milling [p]rocess capability and sustainability. <i>Journal of Cleaner Production</i> , 2014 , 76, 167-173	10.3	56
64	Hybrid manufacturing in micro/nano scale: A Review. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2014 , 1, 75-92	3.8	119
63	An evaluation of green manufacturing technologies based on research databases. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2014 , 1, 5-9	3.8	44
62	Alignment Algorithm for Nano-scale Three-dimensional Printing System. <i>Journal of the Korean Society for Precision Engineering</i> , 2014 , 31, 1101-1106	0.3	2
61	Soundproofing properties of polypropylene/clay/carbon nanotube nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 504-509	2.9	22
60	Perspective to green manufacturing and applications. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013 , 14, 873-874	1.7	31
59	Soundproofing ability and mechanical properties of polypropylene/exfoliated graphite nanoplatelet/carbon nanotube (PP/xGnP/CNT) composite. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013 , 14, 1087-1092	1.7	15
58	Fabrication of 3D soft morphing structure using shape memory alloy (SMA) wire/polymer skeleton composite. <i>Journal of Mechanical Science and Technology</i> , 2013 , 27, 3123-3129	1.6	14
57	Effect of repeated insertions into a mesoscale pinhole assembly: Case of interference fit. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013 , 14, 1651-1654	1.7	9
56	Synergistic effects of carbon nanotubes and exfoliated graphite nanoplatelets for electromagnetic interference shielding and soundproofing. <i>Journal of Applied Polymer Science</i> , 2013 , 130, n/a-n/a	2.9	7

55	Numerical simulation and verification of a curved morphing composite structure with embedded shape memory alloy wire actuators. <i>Journal of Intelligent Material Systems and Structures</i> , 2013 , 24, 89-98	2.3	19
54	Control of machining parameters for energy and cost savings in micro-scale drilling of PCBs. <i>Journal of Cleaner Production</i> , 2013 , 54, 41-48	10.3	58
53	Deformable wheel robot based on origami structure 2013 ,		30
52	Woven type smart soft composite beam with in-plane shape retention. <i>Smart Materials and Structures</i> , 2013 , 22, 125007	3.4	14
51	Defects of wave patterns from tungsten carbide/stainless steel brazed micro-end-milling for printed circuit board machining. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2013 , 227, 1743-1747	2.4	8
50	A turtle-like swimming robot using a smart soft composite (SSC) structure. <i>Smart Materials and Structures</i> , 2013 , 22, 014007	3.4	78
49	Photovoltaic Characteristics of a Dye-Sensitized Solar Cell (DSSC) Fabricated by a Nano-Particle Deposition System (NPDS). <i>Materials Transactions</i> , 2013 , 54, 2064-2068	1.3	10
48	Effect of stand-off distance for cold gas spraying of fine ceramic particles (. <i>Surface and Coatings Technology</i> , 2012 , 206, 2125-2132	4.4	49
47	Review: Developments in micro/nanoscale fabrication by focused ion beams. <i>Vacuum</i> , 2012 , 86, 1014-1035	3.7	125
46	A review on IPMC material as actuators and sensors: Fabrications, characteristics and applications. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 141-163	1.7	155
45	A flexible and highly sensitive strain-gauge sensor using reversible interlocking of nanofibres. <i>Nature Materials</i> , 2012 , 11, 795-801	27	1227
44	Smart soft composite: An integrated 3D soft morphing structure using bend-twist coupling of anisotropic materials. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 631-634	1.7	86
43	Preface for a special issue on green manufacturing and applications. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 1027-1027	1.7	3
42	Review of biomimetic underwater robots using smart actuators. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 1281-1292	1.7	227
41	Laser-assisted nano particle deposition system and its application for dye sensitized solar cell fabrication. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 575-578	4.9	17
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