

Hyung-wook Park

List of Publications by Year in descending order

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141
papers

3,920
citations

109137

35
h-index

155451

55
g-index

143
all docs

143
docs citations

143
times ranked

4340
citing authors

#	ARTICLE	IF	CITATIONS
1	Processing, characterization, and modeling of carbon nanotube-reinforced multiscale composites. <i>Composites Science and Technology</i> , 2009, 69, 335-342.	3.8	317
2	Processing and modeling of conductive thermoplastic/carbon nanotube films for strain sensing. <i>Composites Part B: Engineering</i> , 2008, 39, 209-216.	5.9	296
3	Bimetallic copper cobalt selenide nanowire-anchored woven carbon fiber-based structural supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 355, 551-559.	6.6	117
4	Woven Kevlar Fiber/Polydimethylsiloxane/Reduced Graphene Oxide Composite-Based Personal Thermal Management with Freestanding Cu@Ni Core-Shell Nanowires. <i>Nano Letters</i> , 2018, 18, 6731-6739.	4.5	104
5	Multifunctional CuO nanowire embodied structural supercapacitor based on woven carbon fiber/ionic liquid-polyester resin. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 87, 256-262.	3.8	95
6	Tunable Multimodal Drop Bouncing Dynamics and Anti-Icing Performance of a Magnetically Responsive Hair Array. <i>ACS Nano</i> , 2018, 12, 10693-10702.	7.3	86
7	Influence of a micropatterned insert on characteristics of the tool-workpiece interface in a hard turning process. <i>Journal of Materials Processing Technology</i> , 2016, 229, 160-171.	3.1	83
8	Finite element modeling of hard turning process via a micro-textured tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 78, 1393-1405.	1.5	81
9	Biomechanical Energy Harvesting Wearable Textile-Based Personal Thermal Management Device Containing Epitaxially Grown Aligned Ag-Tipped NiCoSe Nanowires/Reduced Graphene Oxide. <i>Advanced Functional Materials</i> , 2019, 29, 1903144.	7.8	80
10	Recent development and challenges of multifunctional structural supercapacitors for automotive industries. <i>International Journal of Energy Research</i> , 2017, 41, 1397-1411.	2.2	79
11	Force modeling of micro-grinding incorporating crystallographic effects. <i>International Journal of Machine Tools and Manufacture</i> , 2008, 48, 1658-1667.	6.2	73
12	Multifunctional enhancement of woven carbon fiber/ZnO nanotube-based structural supercapacitor and polyester resin-domain solid-polymer electrolytes. <i>Chemical Engineering Journal</i> , 2017, 325, 672-680.	6.6	66
13	Triboelectric-nanogenerator-integrated structural supercapacitor based on highly active P-doped branched Cu-Mn selenide nanowires for efficient energy harvesting and storage. <i>Nano Energy</i> , 2020, 73, 104754.	8.2	63
14	Processing and mechanical characterization of ZnO/polyester woven carbon fiber composites with different ZnO concentrations. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 55, 152-160.	3.8	62
15	Characterization of resistive heating and thermoelectric behavior of discontinuous carbon fiber-epoxy composites. <i>Composites Part B: Engineering</i> , 2016, 90, 37-44.	5.9	62
16	Enhancement in mechanical properties of polyamide 66-carbon fiber composites containing graphene oxide-carbon nanotube hybrid nanofillers synthesized through in situ interfacial polymerization. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 135, 105938.	3.8	58
17	Electromagnetic interference shielding of composites consisting of a polyester matrix and carbon nanotube-coated fiber reinforcement. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 50, 73-80.	3.8	53
18	Pd/Cu-Oxide Nanoconjugate at Zeolite-Y Crystallite Crafting the Mesoporous Channels for Selective Oxidation of Benzyl-Alcohols. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35453-35462.	4.0	51

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19	Hybrid Architectures of Heterogeneous Carbon Nanotube Composite Microstructures Enable Multiaxial Strain Perception with High Sensitivity and Ultrabroad Sensing Range. <i>Small</i> , 2018, 14, e1803411.	5.2	51
20	Growth of aligned ZnO nanorods on woven Kevlar® fiber and its performance in woven Kevlar® fiber/polyester composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 78, 284-293.	3.8	50
21	Controlled growth of CuO nanowires on woven carbon fibers and effects on the mechanical properties of woven carbon fiber/polyester composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 69, 56-63.	3.8	50
22	Piezoresistive behavior and multi-directional strain sensing ability of carbon nanotube-graphene nanoplatelet hybrid sheets. <i>Smart Materials and Structures</i> , 2013, 22, 015013.	1.8	48
23	Optimal synthesis and characterization of Ag nanofluids by electrical explosion of wires in liquids. <i>Nanoscale Research Letters</i> , 2011, 6, 223.	3.1	46
24	Large Pulsed Electron Beam Welded Percolation Networks of Silver Nanowires for Transparent and Flexible Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20938-20945.	4.0	46
25	Electromechanical strain sensing using polycarbonate-impregnated carbon nanotube-graphene nanoplatelet hybrid composite sheets. <i>Composites Science and Technology</i> , 2013, 89, 1-9.	3.8	45
26	Effects of process parameters and surface treatments of graphene nanoplatelets on the crystallinity and thermomechanical properties of polyamide 6 composite fibers. <i>Composites Part B: Engineering</i> , 2016, 100, 220-227.	5.9	40
27	Experimental study on critical heat flux of highly efficient soft hydrophilic Cu-chitosan nanofluid templates. <i>International Journal of Heat and Mass Transfer</i> , 2016, 100, 396-406.	2.5	39
28	Influence of a large pulsed electron beam (LPEB) on the corrosion resistance of Ti-6Al-7Nb alloys. <i>Corrosion Science</i> , 2015, 90, 153-160.	3.0	38
29	Microwave-synthesized freestanding iron-carbon nanotubes on polyester composites of woven Kevlar fibre and silver nanoparticle-decorated graphene. <i>Scientific Reports</i> , 2017, 7, 40386.	1.6	38
30	Ultra-high-speed processing of nanomaterial-reinforced woven carbon fiber/polyamide 6 composites using reactive thermoplastic resin transfer molding. <i>Composites Part B: Engineering</i> , 2018, 143, 36-46.	5.9	38
31	Microwave absorption and mechanical performance of \pm -MnO ₂ nanostructures grown on woven Kevlar fiber/reduced graphene oxide-polyaniline nanofiber array-reinforced polyester resin composites. <i>Composites Part B: Engineering</i> , 2018, 140, 123-132.	5.9	38
32	The state of the art in the electron beam manufacturing processes. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016, 17, 1575-1585.	1.1	37
33	Characterization of thermoelectric properties of multifunctional multiscale composites and fiber-reinforced composites for thermal energy harvesting. <i>Composites Part B: Engineering</i> , 2016, 92, 202-209.	5.9	37
34	Fabrication and Synthesis of Highly Ordered Nickel Cobalt Sulfide Nanowire-Grown Woven Kevlar Fiber/Reduced Graphene Oxide/Polyester Composites. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36311-36319.	4.0	37
35	Current research trends in external energy assisted machining. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 337-342.	1.1	36
36	Synergistic interfacial reinforcement of carbon fiber/polyamide 6 composites using carbon-nanotube-modified silane coating on ZnO-nanorod-grown carbon fiber. <i>Composites Science and Technology</i> , 2018, 165, 362-372.	3.8	35

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37	Force modeling of microscale grinding process incorporating thermal effects. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 44, 476-486.	1.5	34
38	Tool life improvement in cryogenic cooled milling of the preheated Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 665-673.	1.5	34
39	Design and dynamic analysis of an arch-type desktop reconfigurable machine. <i>International Journal of Machine Tools and Manufacture</i> , 2010, 50, 575-584.	6.2	33
40	Electrochemical performance evaluation of tin oxide nanorod-embedded woven carbon fiber composite supercapacitor. <i>International Journal of Energy Research</i> , 2018, 42, 490-498.	2.2	33
41	Improved corrosion resistance of Mg alloy AZ31B induced by selective evaporation of Mg using large pulsed electron beam irradiation. <i>Journal of Materials Science and Technology</i> , 2019, 35, 891-901.	5.6	33
42	Interlaminar resistive heating behavior of woven carbon fiber composite laminates modified with ZnO nanorods. <i>Composites Science and Technology</i> , 2014, 100, 83-91.	3.8	32
43	Highly wettable CuO:graphene oxide core-shell porous nanocomposites for enhanced critical heat flux. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1756-1766.	0.8	31
44	Microwave-induced hierarchical iron-carbon nanotubes nanostructures anchored on polypyrrole/graphene oxide-grafted woven Kevlar® fiber. <i>Composites Science and Technology</i> , 2016, 129, 137-145.	3.8	31
45	Magneto-responsive photothermal composite cilia for active anti-icing and de-icing. <i>Composites Science and Technology</i> , 2022, 217, 109086.	3.8	31
46	Triboelectric nanogenerator-integrated structural supercapacitor with in situ MXene-dispersed N-doped Zn-Cu selenide nanostructured woven carbon fiber for energy harvesting and storage. <i>Energy Storage Materials</i> , 2021, 43, 402-410.	9.5	30
47	Finite Element Modeling of Three-Dimensional Milling Process of Ti-6Al-4V. <i>Materials and Manufacturing Processes</i> , 2014, 29, 564-571.	2.7	29
48	Prediction of thermal conductivities of carbon-containing fiber-reinforced and multiscale hybrid composites. <i>Composites Part B: Engineering</i> , 2018, 133, 232-239.	5.9	28
49	Low-Resistant Electrical and Robust Mechanical Contacts of Self-Attachable Flexible Transparent Electrodes with Patternable Circuits. <i>Advanced Functional Materials</i> , 2020, 30, 2000458.	7.8	28
50	Surface modification of the metal plates using continuous electron beam process (CEBP). <i>Applied Surface Science</i> , 2014, 311, 201-207.	3.1	27
51	Evaluation of Tool Life in the Dry Machining of Inconel 718 Parts from Additive Manufacturing (AM). <i>International Journal of Precision Engineering and Manufacturing</i> , 2020, 21, 57-65.	1.1	27
52	Electrical thermal heating and piezoresistive characteristics of hybrid CuO-woven carbon fiber/vinyl ester composite laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 85, 103-112.	3.8	26
53	Development of a micro/meso-tool clamp using a shape memory alloy for applications in micro-spindle units. <i>International Journal of Machine Tools and Manufacture</i> , 2009, 49, 579-585.	6.2	24
54	Multi-procedure design optimization and analysis of mesoscale machine tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 56, 1-12.	1.5	24

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55	Corrosion inhibition and surface hardening of KP1 and KP4 mold steels using pulsed electron beam treatment. <i>Corrosion Science</i> , 2014, 89, 179-188.	3.0	24
56	Interfacial resistive heating and mechanical properties of graphene oxide assisted CuO nanoparticles in woven carbon fiber/polyester composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 80, 159-170.	3.8	24
57	Deformation and interlaminar crack propagation sensing in carbon fiber composites using electrical resistance measurement. <i>Composite Structures</i> , 2019, 216, 142-150.	3.1	24
58	Fractal to monolayer growth of AgCl and Ag/AgCl nanoparticles on vanadium oxides (VO _x) for visible-light photocatalysis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16953-16963.	5.2	23
59	Electromagnetic interference shielding behavior of hybrid carbon nanotube/exfoliated graphite nanoplatelet coated glass fiber composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 248, 114403.	1.7	23
60	Recent Developments and Challenges on Machining of Carbon Fiber Reinforced Polymer Composite Laminates. <i>International Journal of Precision Engineering and Manufacturing</i> , 2021, 22, 2027-2044.	1.1	22
61	High performance corrosion and wear resistant Ti-6Al-4V alloy by the hybrid treatment method. <i>Applied Surface Science</i> , 2020, 504, 144388.	3.1	21
62	In situ process monitoring of hierarchical micro-/nano-composites using percolated carbon nanotube networks. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 84, 281-291.	3.8	20
63	Adhesion of bioinspired nanocomposite microstructure at high temperatures. <i>Applied Surface Science</i> , 2017, 413, 275-283.	3.1	20
64	Large pulsed electron beam (LPEB)-processed woven carbon fiber/ZnO nanorod/polyester resin composites. <i>Composites Science and Technology</i> , 2014, 102, 106-112.	3.8	19
65	Mechanical properties and corrosion behavior of the nitriding surface layer of Ti 6Al 7Nb using large pulsed electron beam (LPEB). <i>Journal of Alloys and Compounds</i> , 2016, 679, 138-148.	2.8	19
66	Predictive cutting force model for a cryogenic machining process incorporating the phase transformation of Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 1293-1304.	1.5	19
67	Potentials of additive manufacturing with smart materials for chemical biomarkers in wearable applications. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2017, 4, 335-347.	2.7	18
68	Microstructure and corrosion resistance of a Mg ₂ Sn-dispersed Mg alloy subjected to pulsed electron beam treatment. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 345-351.	5.5	18
69	Porous spongy Fe _x Co _{1-x} P nanostructure and MXene infused self-powered flexible textile based personal thermoregulatory device. <i>Nano Energy</i> , 2021, 86, 106042.	8.2	18
70	Pt Nanoparticle-Decorated Reduced Graphene Oxide Hydrogel for High-Performance Strain Sensor: Tailoring Piezoresistive Property by Controlled Microstructure of Hydrogel. <i>ACS Applied Nano Materials</i> , 2018, 1, 2836-2843.	2.4	17
71	Fabrication of durable hydrophobic micropatterns on stainless steel using a hybrid irradiation process. <i>Surface and Coatings Technology</i> , 2016, 302, 535-542.	2.2	16
72	Fabrication of the piezoresistive sensor using the continuous laser-induced nanostructure growth for structural health monitoring. <i>Carbon</i> , 2019, 152, 376-387.	5.4	16

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73	Multifunctional composite as a structural supercapacitor and self-sensing sensor using NiCo ₂ O ₄ nanowires and ionic liquid. <i>Composites Science and Technology</i> , 2021, 213, 108833.	3.8	16
74	Multidimensional wearable self-powered personal thermal management with scalable solar heating and a triboelectric nanogenerator. <i>Nano Energy</i> , 2022, 98, 107323.	8.2	16
75	Microgrinding force predictive modelling based on microscale single grain interaction analysis. <i>International Journal of Manufacturing Technology and Management</i> , 2007, 12, 25.	0.1	15
76	Smart gating of the flexible Ag@Co _x Mo _{1-x} P and rGO-loaded composite based personal thermal management device inspired by the neuroanatomic circuitry of endotherms. <i>Chemical Engineering Journal</i> , 2021, 421, 127746.	6.6	15
77	Surface modification of the patterned Al6061/SUS304 metal plates using the large electron beam. <i>Applied Surface Science</i> , 2012, 261, 458-463.	3.1	14
78	Critical heat flux characteristics of nanofluids based on exfoliated graphite nanoplatelets (xGnPs). <i>Materials Letters</i> , 2012, 81, 193-197.	1.3	14
79	Modeling, processing, and characterization of exfoliated graphite nanoplatelet-nylon 6 composite fibers. <i>Composites Part B: Engineering</i> , 2014, 66, 511-517.	5.9	14
80	Poly(vinyl alcohol)/silica nanoparticles based anion-conducting nanocomposite membrane for fuel-cell applications. <i>Macromolecular Research</i> , 2015, 23, 256-264.	1.0	14
81	Performance Evaluation of a Miniaturized Machining Center for Precision Manufacturing. , 2004, , 503.		13
82	Effect of CuO nanostructure morphology on the mechanical properties of CuO/woven carbon fiber/vinyl ester composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 78, 48-59.	3.8	13
83	Temperature predictive model of the large pulsed electron beam (LPEB) irradiation on engineering alloys. <i>Applied Thermal Engineering</i> , 2018, 128, 151-158.	3.0	13
84	Experimental and analytical investigation of the drilling forces of the carbon fiber reinforced plastics including thermal effects. <i>Journal of Manufacturing Processes</i> , 2020, 58, 1126-1137.	2.8	13
85	Enhancement of the surface properties of selective laser melted maraging steel by large pulsed electron-beam irradiation. <i>Additive Manufacturing</i> , 2020, 33, 101125.	1.7	13
86	Transparent graphene films with a tunable piezoresistive response. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7208.	2.7	12
87	Synthesis of hierarchical copper oxide composites prepared via electrical explosion of the wire in liquids method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 482, 710-717.	2.3	12
88	Interfacial control through ZnO nanorod growth on plasma-treated carbon fiber for multiscale reinforcement of carbon fiber/polyamide 6 composites. <i>Materials Today Communications</i> , 2018, 17, 438-449.	0.9	12
89	Numerical and experimental investigation of the delamination in drilling of the carbon fiber-reinforced plastic composite. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 2373-2387.	1.5	12
90	Novel structural health monitoring method for CFRPs using electrical resistance based probabilistic sensing cloud. <i>Composites Science and Technology</i> , 2021, 213, 108812.	3.8	12

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91	Deburring drilled holes in CFRP composites with large pulsed electron beam (LPEB) irradiation. <i>Journal of Manufacturing Processes</i> , 2019, 40, 68-75.	2.8	11
92	Tool wear, economic costs, and CO2 emissions analysis in cryogenic assisted hard-turning process of AISI 52100 steel. <i>Sustainable Materials and Technologies</i> , 2021, 30, e00349.	1.7	11
93	Shear-pressure multimodal sensor based on flexible cylindrical pillar array and flat structured carbon nanocomposites with simple fabrication process. <i>Composites Science and Technology</i> , 2019, 184, 107841.	3.8	10
94	Advanced non-destructive evaluation of impact damage growth in carbon-fiber-reinforced plastic by electromechanical analysis and machine learning clustering. <i>Composites Science and Technology</i> , 2022, 218, 109094.	3.8	10
95	Hybrid deburring process assisted by a large pulsed electron beam (LPEB) for laser-fabricated patterned metal masks. <i>Applied Surface Science</i> , 2015, 357, 1676-1683.	3.1	9
96	Enhanced mechanical and thermal properties of hybrid SnO ₂ woven carbon fiber composites using the facile controlled growth method. <i>Composites Science and Technology</i> , 2016, 133, 60-69.	3.8	9
97	Dynamically actuating nanospike composites as a bioinspired antibiofilm material. <i>Composites Science and Technology</i> , 2022, 220, 109267.	3.8	9
98	Large pulsed electron beam surface treatment of translucent PMMA. <i>Applied Surface Science</i> , 2014, 308, 311-315.	3.1	8
99	Unidirectional spread tow carbon fiber/polypropylene composites reinforced with mechanically aligned multi-walled carbon nanotubes and exfoliated graphite nanoplatelets. <i>Polymer Composites</i> , 2018, 39, E1251.	2.3	7
100	Hierarchically structured ZnO nanorod-carbon fiber composites as ultrathin, flexible, highly sensitive triboelectric sensors. <i>Smart Materials and Structures</i> , 2020, 29, 025002.	1.8	7
101	Interfacial enhancements between a three-dimensionally printed Honeycomb-Truss core and woven carbon fiber/polyamide-6 facesheets in sandwich-structured composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106534.	3.8	7
102	Fabrication and synthesis of solvent-free aluminum oxide colloids by electrical explosion of wires in liquids method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 459, 100-108.	2.3	6
103	From macro to micro, evolution of surface structures on cutting tools: a review. <i>JMST Advances</i> , 2019, 1, 89-106.	0.6	6
104	Reducing the pitting susceptibility of AISI 304 stainless steel using a hybrid treatment of high-power diode laser and large pulsed electron beam irradiation. <i>Surface and Coatings Technology</i> , 2020, 381, 125124.	2.2	6
105	Self-sensing impact damage in and non-destructive evaluation of carbon fiber-reinforced polymers using electrical resistance and the corresponding electrical route models. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 112762.	2.0	6
106	Waterproof and Wear-Resistant Surface Treatment on Printed Parts of Polyamide 12 (PA12) by Selective Laser Sintering Using a Large Pulsed Electron Beam. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2023, 10, 71-83.	2.7	6
107	Predictive modeling for the cryogenic cooling condition of the hard turning process. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 99, 2877-2891.	1.5	5
108	Numerical and experimental study of end-milling process of titanium alloy with a cryogenic internal coolant supply. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 2957-2975.	1.5	5

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109	Replacement of Hazard Lubricants by Green Coolant in Machining of Ti6Al4V: A 3D FEM Approach. International Journal of Precision Engineering and Manufacturing, 2019, 20, 1027-1035.	1.1	5
110	Design, Manufacturing, and Characterization of High-Performance Lightweight Bipolar Plates Based on Carbon Nanotube-Exfoliated Graphite Nanoplatelet Hybrid Nanocomposites. Journal of Nanomaterials, 2012, 2012, 1-8.	1.5	4
111	Non-contact measurement methods for micro- and meso-scale tool positioning. International Journal of Advanced Manufacturing Technology, 2012, 60, 251-260.	1.5	4
112	Experimental observation of the critical heat flux (CHF) enhancement of the nanofluids by the electrical explosion of a wire in liquid. International Journal of Heat and Mass Transfer, 2014, 79, 868-875.	2.5	4
113	Experimental Investigation on Tool Wear During the Milling Processes for the Post-Processing of Selective Laser Melted Inconel 718 Alloys. , 2018, , .		4
114	Synergistic Mechanical Reinforcement of Woven Carbon Fiber/Polypropylene Composites Using Plasma Treatment and Nanoclay. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 595-609.	2.7	4
115	Precision Machining with Micro-Scale Vertical Machining Center. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2006, 10, 187-195.	0.5	4
116	Thermal and mechanical properties of modified CaCO ₃ filled poly (ethylene terephthalate) nanocomposites. Fibers and Polymers, 2014, 15, 1493-1499.	1.1	3
117	Fabrication and synthesis of uniform TiO ₂ nanoporous and nanotubular structures on dual-phase Ti-6Al-4V alloy using electron-beam irradiation. Materials Chemistry and Physics, 2020, 242, 122549.	2.0	3
118	Fabrication and Characterization of Carbon Nanotube/Carbon Fiber/Polycarbonate Multiscale Hybrid Composites. Composites Research, 2016, 29, 269-275.	0.1	3
119	Predictive modeling of microhole profile drilled using a focused electron beam with backing materials. International Journal of Thermal Sciences, 2022, 177, 107584.	2.6	3
120	Carbon fiber grid sensor for structural deformation using piezoresistive behavior of carbon fiber. Sensors and Actuators A: Physical, 2022, 341, 113348.	2.0	3
121	Surface modifications to grooved SM45C mold steel plates using large-electron-beam polishing. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2012, 226, 950-954.	1.5	2
122	FE Simulation of Cryogenic Assisted Machining of Ti Alloy (Ti6Al4V). , 2015, , .		2
123	Prediction enhancement of the J-lead interconnection reliability of land grid array sockets. Journal of Mechanical Science and Technology, 2015, 29, 2187-2193.	0.7	2
124	Deep-Sintered Copper Tracks for Thermal Oxidation Resistance Using Large Pulsed Electron Beam. ACS Omega, 2021, 6, 19134-19143.	1.6	2
125	Computational Modeling of the Bearing Coupling Section of Machine Tools. Journal of the Korean Society for Precision Engineering, 2012, 29, 1050-1055.	0.1	2
126	Study on Characteristics of Cryogenic Machining Process of Titanium Alloy at a Low Cutting Speed. Journal of the Korean Society for Precision Engineering, 2017, 34, 237-241.	0.1	2

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127	MODELING OF SERRATED CHIP FORMATION IN HIGH SPEED ORTHOGONAL MACHINING. International Journal of Modern Physics B, 2008, 22, 1666-1671.	1.0	1
128	Characterising the topography of a micro-grinding wheel. International Journal of Manufacturing Research, 2009, 4, 1.	0.1	1
129	Study of an Identification Method of the Mesoscale Tool Position. Key Engineering Materials, 2010, 450, 271-274.	0.4	1
130	Experimental Observation for Surface Modification of Metal Plates Using Continuous Electron Beam Polishing (CEBP)., 2014, , .		1
131	Simulation of the round insert face milling process of AISI 316LN stainless steel with machining-based plastic behavior modeling. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 443-454.	1.5	1
132	The State of the Art in FEM Analysis Technology of the Machining Process. Journal of the Korean Society for Precision Engineering, 2018, 35, 269-278.	0.1	1
133	Surface Finishing Post-treatments for Additive Manufactured Metallic Components. Springer Tracts in Additive Manufacturing, 2022, , 161-188.	0.2	1
134	Analysis of the Scale Effect for Microscale Machine Tools. , 2007, , .		0
135	CHF Enhancement of Pool Boiling in Graphene Oxide Nanofluid With Chemical Reduction. , 2013, , .		0
136	Synthesis and Characterization of Non-Toxic Thermal Stabilizers of PVC Based on Layered Double Hydroxides. Asian Journal of Chemistry, 2014, 26, 5797-5799.	0.1	0
137	Special issue on environmentally conscious technologies in mechanical engineering. Advances in Mechanical Engineering, 2015, 7, 168781401558542.	0.8	0
138	Electronic Skins: Hybrid Architectures of Heterogeneous Carbon Nanotube Composite Microstructures Enable Multiaxial Strain Perception with High Sensitivity and Ultrabroad Sensing Range (Small 52/2018). Small, 2018, 14, 1870253.	5.2	0
139	Optimal Dimensioning of Miniaturized Machine Tools. , 2006, , .		0
140	Development of a Multiscale Machining Compound Mesoscale Machine Tool (MMT) Platform. Advanced Science Letters, 2012, 13, 152-157.	0.2	0
141	Optimization of the Hard Turning Process of the Harden Bearing Steel Using Response Surface Methodology. Journal of the Korean Society for Precision Engineering, 2017, 34, 683-687.	0.1	0