

Hak-Sung Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5304000/publications.pdf>

Version: 2024-02-01

177
papers

6,086
citations

66336

42
h-index

98792

67
g-index

178
all docs

178
docs citations

178
times ranked

5720
citing authors

#	ARTICLE	IF	CITATIONS
1	Intense pulsed light sintering of copper nanoink for printed electronics. Applied Physics A: Materials Science and Processing, 2009, 97, 791-798.	2.3	377
2	Reactive Sintering of Copper Nanoparticles Using Intense Pulsed Light for Printed Electronics. Journal of Electronic Materials, 2011, 40, 42-50.	2.2	243
3	Inkjet printed electronics using copper nanoparticle ink. Journal of Materials Science: Materials in Electronics, 2010, 21, 1213-1220.	2.2	172
4	Design optimization and manufacture of hybrid glass/carbon fiber reinforced composite bumper beam for automobile vehicle. Composite Structures, 2015, 131, 742-752.	5.8	138
5	A Highly Reliable Copper Nanowire/Nanoparticle Ink Pattern with High Conductivity on Flexible Substrate Prepared via a Flash Light-Sintering Technique. ACS Applied Materials & Interfaces, 2015, 7, 5674-5684.	8.0	128
6	Intense pulsed light induced platinum-gold alloy formation on carbon nanotubes for non-enzymatic glucose detection. Biosensors and Bioelectronics, 2010, 26, 602-607.	10.1	127
7	<i>In situ</i> monitoring of flash-light sintering of copper nanoparticle ink for printed electronics. Nanotechnology, 2012, 23, 485205.	2.6	126
8	Highly conductive copper nano/microparticles ink via flash light sintering for printed electronics. Nanotechnology, 2014, 25, 265601.	2.6	121
9	Flash light sintering of nickel nanoparticles for printed electronics. Thin Solid Films, 2014, 550, 575-581.	1.8	120
10	Design and manufacture of an automotive hybrid aluminum/composite drive shaft. Composite Structures, 2004, 63, 87-99.	5.8	114
11	<i>In situ</i> monitoring of a flash light sintering process using silver nano-ink for producing flexible electronics. Nanotechnology, 2013, 24, 035202.	2.6	98
12	Facile approach to synthesize magnesium oxide nanoparticles by using Clitoria ternatea characterization and in vitro antioxidant studies. Applied Nanoscience (Switzerland), 2016, 6, 437-444.	3.1	98
13	Nondestructive evaluation of hidden multi-delamination in a glass-fiber-reinforced plastic composite using terahertz spectroscopy. Composite Structures, 2016, 156, 338-347.	5.8	91
14	All-photonic drying and sintering process via flash white light combined with deep-UV and near-infrared irradiation for highly conductive copper nano-ink. Scientific Reports, 2016, 6, 19696.	3.3	89
15	Multi-pulsed white light sintering of printed Cu nanoinks. Nanotechnology, 2011, 22, 395705.	2.6	83
16	Pulsed light sintering characteristics of inkjet-printed nanosilver films on a polymer substrate. Journal of Micromechanics and Microengineering, 2011, 21, 125023.	2.6	82
17	Design and manufacture of composite high speed machine tool structures. Composites Science and Technology, 2004, 64, 1523-1530.	7.8	77
18	Healing behavior of a matrix crack on a carbon fiber/mendomer composite. Composites Science and Technology, 2009, 69, 1082-1087.	7.8	70

#	ARTICLE	IF	CITATIONS
19	In situ monitoring of the strain evolution and curing reaction of composite laminates to reduce the thermal residual stress using FBG sensor and dielectrometry. <i>Composites Part B: Engineering</i> , 2013, 44, 446-452.	12.0	68
20	Large area growth of MoTe ₂ films as high performance counter electrodes for dye-sensitized solar cells. <i>Scientific Reports</i> , 2018, 8, 29.	3.3	68
21	Inkjet printed electronics for multifunctional composite structure. <i>Composites Science and Technology</i> , 2009, 69, 1256-1264.	7.8	67
22	Carbon nanotubes with platinum nano-islands as glucose biofuel cell electrodes. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1603-1608.	10.1	67
23	Design optimization of a carbon fiber reinforced composite automotive lower arm. <i>Composites Part B: Engineering</i> , 2014, 58, 400-407.	12.0	67
24	Intensive Plasmonic Flash Light Sintering of Copper Nanoinks Using a Band-Pass Light Filter for Highly Electrically Conductive Electrodes in Printed Electronics. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8591-8599.	8.0	67
25	Selective Wavelength Plasmonic Flash Light Welding of Silver Nanowires for Transparent Electrodes with High Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24099-24107.	8.0	67
26	Copper Nanoparticle/Multiwalled Carbon Nanotube Composite Films with High Electrical Conductivity and Fatigue Resistance Fabricated via Flash Light Sintering. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25413-25423.	8.0	64
27	Strain rate dependent mechanical behavior of glass fiber reinforced polypropylene composites and its effect on the performance of automotive bumper beam structure. <i>Composites Part B: Engineering</i> , 2019, 166, 483-496.	12.0	64
28	Photonic welding of ultra-long copper nanowire network for flexible transparent electrodes using white flash light sintering. <i>RSC Advances</i> , 2016, 6, 4770-4779.	3.6	61
29	UV-assisted flash light welding process to fabricate silver nanowire/graphene on a PET substrate for transparent electrodes. <i>Nano Research</i> , 2018, 11, 2190-2203.	10.4	59
30	Flash light sintered copper precursor/nanoparticle pattern with high electrical conductivity and low porosity for printed electronics. <i>Thin Solid Films</i> , 2015, 580, 61-70.	1.8	57
31	Design of WSe ₂ /MoS ₂ Heterostructures as the Counter Electrode to Replace Pt for Dye-Sensitized Solar Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13195-13205.	6.7	57
32	Temperature changes of copper nanoparticle ink during flash light sintering. <i>Journal of Materials Processing Technology</i> , 2014, 214, 2730-2738.	6.3	54
33	Two-step flash light sintering process for crack-free inkjet-printed Ag films. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 015013.	2.6	52
34	Investigation of optimal surface treatments for carbon/epoxy composite adhesive joints. <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 329-352.	2.6	51
35	Smart cure cycle with cooling and reheating for co-cure bonded steel/carbon epoxy composite hybrid structures for reducing thermal residual stress. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006, 37, 1708-1721.	7.6	50
36	Two-step flash light sintering of copper nanoparticle ink to remove substrate warping. <i>Applied Surface Science</i> , 2016, 384, 182-191.	6.1	50

#	ARTICLE	IF	CITATIONS
37	CuS/WS ₂ and CuS/MoS ₂ heterostructures for high performance counter electrodes in dye-sensitized solar cells. <i>Solar Energy</i> , 2018, 171, 122-129.	6.1	50
38	Reduction of residual stresses in thick-walled composite cylinders by smart cure cycle with cooling and reheating. <i>Composite Structures</i> , 2006, 75, 261-266.	5.8	47
39	Facile and cost-effective methodology to fabricate MoS ₂ counter electrode for efficient dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2018, 151, 7-14.	3.7	47
40	Investigation of mechanical/dynamic properties of carbon fiber reinforced polymer concrete for low noise railway slab. <i>Composite Structures</i> , 2015, 134, 27-35.	5.8	45
41	Welding of silver nanowire networks via flash white light and UV-C irradiation for highly conductive and reliable transparent electrodes. <i>Scientific Reports</i> , 2016, 6, 32086.	3.3	45
42	Finite element analysis of a low-velocity impact test for glass fiber-reinforced polypropylene composites considering mixed-mode interlaminar fracture toughness. <i>Composite Structures</i> , 2017, 160, 446-456.	5.8	44
43	Synthesis of highly photo-catalytic and electro-catalytic active textile structured carbon electrode and its application in DSSCs. <i>Solar Energy</i> , 2017, 150, 521-531.	6.1	43
44	Novel synthesis of an iron oxalate capped iron oxide nanomaterial: a unique soil conditioner and slow release eco-friendly source of iron sustenance in plants. <i>RSC Advances</i> , 2016, 6, 103012-103025.	3.6	42
45	Three-dimensional progressive failure modeling of glass fiber reinforced thermoplastic composites for impact simulation. <i>Composite Structures</i> , 2017, 176, 757-767.	5.8	42
46	Sub-second photo-annealing of solution-processed metal oxide thin-film transistors via irradiation of intensely pulsed white light. <i>RSC Advances</i> , 2014, 4, 19375.	3.6	41
47	Optimal design of the press fit joint for a hybrid aluminum/composite drive shaft. <i>Composite Structures</i> , 2005, 70, 33-47.	5.8	39
48	Two-step flash light sintering process for enhanced adhesion between copper complex ion/silane ink and a flexible substrate. <i>Thin Solid Films</i> , 2016, 603, 382-390.	1.8	39
49	Effect of the cooling rate on the mechanical properties of glass fiber reinforced thermoplastic composites. <i>Composite Structures</i> , 2017, 177, 28-37.	5.8	39
50	Damage detection and self-healing of carbon fiber polypropylene (CFPP)/carbon nanotube (CNT) nano-composite via addressable conducting network. <i>Composites Science and Technology</i> , 2018, 167, 62-70.	7.8	39
51	An analysis on the impact of large-scale transports of dust pollution on air quality in East Asia as observed in central Korea in 2014. <i>Air Quality, Atmosphere and Health</i> , 2016, 9, 83-93.	3.3	38
52	Multi-pulse flash light sintering of bimodal Cu nanoparticle-ink for highly conductive printed Cu electrodes. <i>Nanotechnology</i> , 2017, 28, 205205.	2.6	38
53	A Review on Intense Pulsed Light Sintering Technologies for Conductive Electrodes in Printed Electronics. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 327-363.	4.9	38
54	Environmentally benign and facile reduction of graphene oxide by flash light irradiation. <i>Nanotechnology</i> , 2015, 26, 205601.	2.6	36

#	ARTICLE	IF	CITATIONS
55	Synthesis and Characterization of Copper Nanoparticles (Cu-Nps) using Rongalite as Reducing Agent and Photonic Sintering of Cu-Nps Ink for Printed Electronics. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018, 5, 239-245.	4.9	36
56	Efficiency enhancement in dye-sensitized solar cells using the shape/size-dependent plasmonic nanocomposite photoanodes incorporating silver nanoplates. <i>Nanoscale</i> , 2017, 9, 7960-7969.	5.6	35
57	Prediction of the vacuum assisted resin transfer molding (VARTM) process considering the directional permeability of sheared woven fabric. <i>Composite Structures</i> , 2019, 211, 236-243.	5.8	35
58	Cu(In,Ga)Se ₂ Thin Film Preparation from a Cu(In,Ga) Metallic Alloy and Se Nanoparticles by an Intense Pulsed Light Technique. <i>Journal of Electronic Materials</i> , 2011, 40, 122-126.	2.2	34
59	Non-destructive evaluation of the hidden voids in integrated circuit packages using terahertz time-domain spectroscopy. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 095007.	2.6	33
60	Determination of lithium diffusion coefficient and reaction mechanism into ultra-small nanocrystalline SnO ₂ particles. <i>Journal of Power Sources</i> , 2019, 419, 229-236.	7.8	33
61	Electrical wire explosion process of copper/silver hybrid nano-particle ink and its sintering via flash white light to achieve high electrical conductivity. <i>Nanotechnology</i> , 2016, 27, 205704.	2.6	32
62	Growth of a WSe ₂ /W counter electrode by sputtering and selenization annealing for high-efficiency dye-sensitized solar cells. <i>Applied Surface Science</i> , 2017, 406, 84-90.	6.1	32
63	Predicting the stacking sequence of E-glass fiber reinforced polymer (GFRP) epoxy composite using terahertz time-domain spectroscopy (THz-TDS) system. <i>Composites Part B: Engineering</i> , 2019, 177, 107385.	12.0	32
64	Enhanced electrocatalytic properties in MoS ₂ /MoTe ₂ hybrid heterostructures for dye-sensitized solar cells. <i>Applied Surface Science</i> , 2020, 504, 144401.	6.1	32
65	Nondestructive evaluation of hidden damages in glass fiber reinforced plastic by using the terahertz spectroscopy. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2017, 4, 211-219.	4.9	31
66	Improving pedestrian safety via the optimization of composite hood structures for automobiles based on the equivalent static load method. <i>Composite Structures</i> , 2017, 176, 780-789.	5.8	31
67	Facile fabrication of activated charcoal decorated functionalized multi-walled carbon nanotube electro-catalyst for high performance quasi-solid state dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2017, 234, 53-62.	5.2	31
68	Development of heavy duty hybrid carbon-phenolic hemispherical bearings. <i>Composite Structures</i> , 2006, 73, 88-98.	5.8	30
69	Intense Pulsed Light Annealing Process of Indium-Gallium-Zinc-Oxide Semiconductors via Flash White Light Combined with Deep-UV and Near-Infrared Drying for High-Performance Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13380-13388.	8.0	30
70	Intense pulsed white light assisted fabrication of Co-CoO _x core-shell nanoflakes on graphite felt for flexible hybrid supercapacitors. <i>Electrochimica Acta</i> , 2017, 246, 757-765.	5.2	29
71	Solution processed growth and photoelectrochemistry of Bi ₂ S ₃ nanorods thin film. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 174-181.	3.9	29
72	Design and manufacture of automotive composite front bumper assemble component considering interfacial bond characteristics between over-molded chopped glass fiber polypropylene and continuous glass fiber polypropylene composite. <i>Composite Structures</i> , 2020, 236, 111849.	5.8	28

#	ARTICLE	IF	CITATIONS
73	Rapid synthesis of Pt-based alloy/carbon nanotube catalysts for a direct methanol fuel cell using flash light irradiation. International Journal of Hydrogen Energy, 2012, 37, 12597-12604.	7.1	27
74	Effect of copper oxide shell thickness on flash light sintering of copper nanoparticle ink. RSC Advances, 2017, 7, 17724-17731.	3.6	27
75	Development of a WS ₂ /MoTe ₂ heterostructure as a counter electrode for the improved performance in dye-sensitized solar cells. Inorganic Chemistry Frontiers, 2018, 5, 3178-3183.	6.0	27
76	Intense pulsed light sintering of Cu nano particles/micro particles-ink assisted with heating and vacuum holding of substrate for warpage free printed electronic circuit. Thin Solid Films, 2019, 675, 23-33.	1.8	27
77	The surface plasmonic welding of silver nanowires via intense pulsed light irradiation combined with NIR for flexible transparent conductive films. Nanoscale, 2020, 12, 17725-17737.	5.6	27
78	Waterproof characteristics of nanoclay/epoxy nanocomposite in adhesively bonded joints. Composites Part B: Engineering, 2013, 55, 86-95.	12.0	26
79	The effect of poly (N-vinylpyrrolidone) molecular weight on flash light sintering of copper nanopaste. Thin Solid Films, 2014, 570, 114-122.	1.8	26
80	Effect of the smart cure cycle on the performance of the co-cured aluminum/composite hybrid shaft. Composite Structures, 2006, 75, 276-288.	5.8	25
81	Flash light sintering of ag mesh films for printed transparent conducting electrode. Thin Solid Films, 2017, 629, 60-68.	1.8	25
82	Carbonous metallic framework of multi-walled carbon Nanotubes/Bi ₂ S ₃ nanorods as heterostructure composite films for efficient quasi-solid state DSSCs. Electrochimica Acta, 2018, 283, 997-1005.	5.2	25
83	Photonic sintering of a ZnO nanosheet photoanode using flash white light combined with deep UV irradiation for dye-sensitized solar cells. RSC Advances, 2017, 7, 6565-6573.	3.6	24
84	CuS thin film grown using the one pot, solution-process method for dye-sensitized solar cell applications. Journal of Alloys and Compounds, 2017, 708, 568-574.	5.5	24
85	Adhesion characteristics of carbon/epoxy composites treated with low- and atmospheric pressure plasmas. Journal of Adhesion Science and Technology, 2003, 17, 1751-1771.	2.6	23
86	Foreign objects impact damage characteristics of aluminum/composite hybrid drive shaft. Composite Structures, 2004, 66, 377-389.	5.8	22
87	Investigation of hygroscopic properties in electronic packages using molecular dynamics simulation. Polymer, 2011, 52, 3437-3442.	3.8	22
88	Terahertz time-domain spectroscopy of weld line defects formed during an injection moulding process. Composites Science and Technology, 2018, 157, 67-77.	7.8	22
89	Optimum design of the co-cured double lap joint composed of aluminum and carbon epoxy composite. Composite Structures, 2006, 75, 289-297.	5.8	21
90	Warpage Simulation of a Multilayer Printed Circuit Board and Microelectronic Package Using the Anisotropic Viscoelastic Shell Modeling Technique That Considers the Initial Warpage. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 1667-1676.	2.5	21

#	ARTICLE	IF	CITATIONS
91	Identification of stiffness distribution of fatigue loaded polymer concrete through vibration measurements. <i>Composite Structures</i> , 2016, 136, 11-15.	5.8	21
92	Reduction of fabrication thermal residual stress of the hybrid co-cured structure using a dielectrometry. <i>Composites Science and Technology</i> , 2007, 67, 29-44.	7.8	20
93	Spatio-temporal variations of optical properties of aerosols in East Asia measured by MODIS and relation to the ground-based mass concentrations observed in central Korea during 2001~2010. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2014, 50, 191-200.	2.3	20
94	High Performance MoSe ₂ /Mo Counter Electrodes Based- Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, E11-E16.	2.9	20
95	Prediction of the mechanical behavior of fiber-reinforced composite structure considering its shear angle distribution generated during thermo-compression molding process. <i>Composite Structures</i> , 2019, 220, 441-450.	5.8	20
96	Development of composite spherical bearing. <i>Composite Structures</i> , 2006, 75, 231-240.	5.8	19
97	Prediction of biceps muscle fatigue and force using electromyography signal analysis for repeated isokinetic dumbbell curl exercise. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 5329-5336.	1.5	19
98	Multi-pulsed flash light sintering of copper nanoparticle pastes on silicon wafer for highly-conductive copper electrodes in crystalline silicon solar cells. <i>Applied Surface Science</i> , 2018, 462, 378-386.	6.1	19
99	Design and Manufacture of Automotive Hybrid Steel/Carbon Fiber Composite B-Pillar Component with High Crashworthiness. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 547-559.	4.9	19
100	Investigation of moisture-induced failures of stacked-die package. <i>Microelectronics Reliability</i> , 2007, 47, 1673-1679.	1.7	18
101	Bi-axial fracture strength characteristic of an ultra-thin flash memory chip. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 105014.	2.6	18
102	Ultra-High Speed Fabrication of TiO ₂ ; Photoanode by Flash Light for Dye-Sensitized Solar Cell. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 5028-5034.	0.9	18
103	Intense pulsed light-assisted facile and agile fabrication of cobalt oxide/nickel cobaltite nanoflakes on nickel-foam for high performance supercapacitor applications. <i>Journal of Alloys and Compounds</i> , 2015, 618, 227-232.	5.5	18
104	In situ fabrication of copper electrodes on carbon-fiber-reinforced polymer (CFRP) for damage monitoring by printing and flash light sintering. <i>Composites Science and Technology</i> , 2017, 142, 189-197.	7.8	18
105	Ultra-High-Speed Intense Pulsed-Light Irradiation Technique for High-Performance Zinc Oxynitride Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4152-4158.	8.0	18
106	Construction of dye-sensitized solar cells using wet chemical route synthesized MoSe ₂ counter electrode. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 69, 379-386.	5.8	18
107	Investigation of hygroscopic and mechanical properties of nanoclay/epoxy system: Molecular dynamics simulations and experiments. <i>Composites Science and Technology</i> , 2014, 101, 110-120.	7.8	17
108	Prediction of crack length and crack growth rate of adhesive joints by a piezoelectric method. <i>Journal of Adhesion Science and Technology</i> , 2005, 19, 1081-1111.	2.6	16

#	ARTICLE	IF	CITATIONS
109	Synthesis of solution processed f-CNT@Bi ₂ S ₃ hybrid film coated linen fabric as a free-standing textile structured photo catalyst. <i>Applied Catalysis A: General</i> , 2018, 566, 87-95.	4.3	16
110	Design of hybrid steel/composite circular plate cutting tool structures. <i>Composite Structures</i> , 2006, 75, 250-260.	5.8	15
111	Single-step high-speed nanogranulation of metal alloy around carbon nanotubes by flash light irradiation. <i>Materials Letters</i> , 2011, 65, 2510-2513.	2.6	15
112	Decadal trends of atmospheric methane in East Asia from 1991 to 2013. <i>Air Quality, Atmosphere and Health</i> , 2015, 8, 293-298.	3.3	15
113	In-situ monitoring of moisture diffusion process for wood with terahertz time-domain spectroscopy. <i>Optics and Lasers in Engineering</i> , 2020, 128, 106036.	3.8	15
114	Optimization of Intense Pulsed Light Sintering Considering Dimensions of Printed Cu Nano/Micro-paste Patterns for Printed Electronics. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 471-485.	4.9	15
115	Effect of CO ₂ hydrate formation on seismic wave velocities of fine-grained sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 1787-1799.	2.5	14
116	In-situ thickness measurement of epoxy molding compound in semiconductor package products using a Terahertz-Time of Flight System. <i>NDT and E International</i> , 2019, 105, 11-18.	3.7	14
117	An Investigation into Methanol Oxidation Reactions and CO, OH Adsorption on Pt-Ru-Mo Catalysts for a Direct Methanol Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2014, 161, F405-F414.	2.9	13
118	An investigation of contact resistance between carbon fiber/epoxy composite laminate and printed silver electrode for damage monitoring. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 66, 193-200.	7.6	13
119	On air pollutant variations in the cases of long-range transport of dust particles observed in central Korea in the leeside of China in 2010. <i>Air Quality, Atmosphere and Health</i> , 2014, 7, 309-323.	3.3	13
120	Fabrication of iridium oxide nanoparticles supported on activated carbon powder by flashlight irradiation for oxygen evolutions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 201, 29-34.	3.5	13
121	Investigation of multilayer printed circuit board (PCB) film warpage using viscoelastic properties measured by a vibration test. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 035021.	2.6	12
122	Deep-learning based damage sensing of carbon fiber/polypropylene composite via addressable conducting network. <i>Composite Structures</i> , 2021, 267, 113871.	5.8	12
123	Design and manufacture of stainless steel/carbon epoxy hybrid shaft for cleaning large LCD glass panels. <i>Composite Structures</i> , 2007, 80, 279-289.	5.8	11
124	Investigation of moisture-induced delamination failure in a semiconductor package via multi-scale mechanics. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 034007.	2.8	11
125	Analysis of spatial and seasonal distributions of MODIS aerosol optical properties and ground-based measurements of mass concentrations in the Yellow Sea region in 2009. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 369-382.	2.7	11
126	Flash Light-Assisted Facile and Eco-Friendly Synthesis of Platinum-Based Alloy Nanoparticle/Carbon Nano-Tube Catalysts for a Direct Methanol Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2015, 162, F204-F210.	2.9	11

#	ARTICLE	IF	CITATIONS
127	Modeling of edge tool influence functions for computer controlled optical surfacing process. International Journal of Advanced Manufacturing Technology, 2016, 83, 911-917.	3.0	11
128	Non-contact measurement of the electrical conductivity and coverage density of silver nanowires for transparent electrodes using Terahertz spectroscopy. Measurement Science and Technology, 2017, 28, 025001.	2.6	11
129	Prediction of non-linear mechanical behavior of shear deformed twill woven composites based on a multi-scale progressive damage model. Composite Structures, 2019, 224, 111019.	5.8	11
130	Complex structured polymer concrete sleeper for rolling noise reduction of high-speed train system. Composite Structures, 2019, 223, 110944.	5.8	11
131	The influence of consolidation temperature on in-plane and interlaminar mechanical properties of self-reinforced polypropylene composite. Composite Structures, 2019, 210, 767-777.	5.8	11
132	Effect of plasma treatment on adhesion strength and moisture absorption characteristics between epoxy molding compound/silicon chip (EMC/chip) interface. Microelectronics Reliability, 2019, 92, 63-72.	1.7	11
133	Development of a via-hole connection process via intense pulsed light sintering with Cu micro/Ag nano-hybrid ink for a multi-layered flexible printed circuit board. Thin Solid Films, 2019, 680, 1-11.	1.8	10
134	Instant electrode fabrication on carbon-fiber-reinforced plastic structures using metal nano-ink via flash light sintering for smart sensing. Composites Part B: Engineering, 2015, 76, 167-173.	12.0	9
135	Rapid, cool sintering of wet processed yttria-stabilized zirconia ceramic electrolyte thin films. Scientific Reports, 2017, 7, 12458.	3.3	9
136	Enhancing intense pulsed light sintering characteristic of Cu nanoparticle/microparticle-ink using ultraviolet surface modification on polyimide substrate. Thin Solid Films, 2020, 701, 137951.	1.8	9
137	Non-destructive evaluation of cement hydration with pulsed and continuous Terahertz electro-magnetic waves. Optics and Lasers in Engineering, 2021, 138, 106414.	3.8	9
138	Intense Pulsed Light Sintering of Screen-Printed Paste Electrode on Silicon Solar Cell for High Throughput and Cost-Effective Low Temperature Metallization. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 523-535.	4.9	9
139	Design and manufacture of thermoplastic carbon fiber/polyethylene terephthalate composites underbody shield to protect the lithium-ion batteries for electric mobility from ground impact. Composites Part B: Engineering, 2022, 238, 109892.	12.0	9
140	Avoidance of fabrication thermal residual stresses in co-cure bonded metal-composite hybrid structures. Journal of Adhesion Science and Technology, 2006, 20, 959-979.	2.6	8
141	A study on carbon dioxide concentrations and carbon isotopes measured in East Asia during 1991-2011. Air Quality, Atmosphere and Health, 2014, 7, 173-179.	3.3	8
142	Anisotropic viscoelastic shell modeling technique of copper patterns/photoimageable solder resist composite for warpage simulation of multi-layer printed circuit boards. Journal of Micromechanics and Microengineering, 2015, 25, 105016.	2.6	8
143	Rapid fabrication of chemical-solution-deposited La _{0.6} Sr _{0.4} CoO ₃ thin films via flashlight sintering. Journal of Alloys and Compounds, 2017, 696, 102-108.	5.5	8
144	A Study on Copper/Silver Core-Shell Microparticles with Silver Nanoparticles Hybrid Paste and its Intense Pulsed Light Sintering Characteristics for High Oxidation Resistance. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 1649-1661.	4.9	8

#	ARTICLE	IF	CITATIONS
145	The Ultrafast and Eco-friendly Reduction of Graphene Oxide Using a UV+IR Assisted Intense Pulsed Light and Its Application as Supercapacitor. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 201-211.	4.9	8
146	Dependence of polymer concrete vibration characteristics on internal pipe and damper embedment. Composite Structures, 2016, 143, 347-351.	5.8	7
147	Analysis of Interfacial Peeling of an Ultrathin Silicon Wafer Chip in a Pick-Up Process Using an Air Blowing Method. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 1696-1702.	2.5	7
148	Simple, ultra-rapid, versatile method to synthesize cobalt/cobalt oxide nanostructures on carbon fiber paper via intense pulsed white light (IPWL) photothermal reduction for energy storage applications. Journal of Alloys and Compounds, 2017, 724, 684-694.	5.5	7
149	Progressive failure analysis of woven composites considering structural characteristics based on micro-mechanics. Composite Structures, 2019, 224, 110990.	5.8	7
150	Fabrication of solderable intense pulsed light sintered hybrid copper for flexible conductive electrodes. Scientific Reports, 2021, 11, 14551.	3.3	7
151	TiO ₂ /silver/carbon nanotube nanocomposite working electrodes for high-performance dye-sensitized solar cells. Journal of Composite Materials, 2014, 48, 1679-1690.	2.4	6
152	On large-scale transport of dust storms and anthropogenic dust-falls over east Asia observed in central Korea in 2009. Asia-Pacific Journal of Atmospheric Sciences, 2014, 50, 345-354.	2.3	6
153	A study on the relationship between print-ability and flash light sinter-ability of Cu nano/micro-ink for printed electronics. Thin Solid Films, 2019, 671, 36-43.	1.8	6
154	Investigation of Mechanical and Hygroscopic Properties for the Semi-crystalline Polypropylene Polymer Via Experiments and Molecular Dynamics. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 177-191.	4.9	6
155	Effect of cure shrinkage of epoxy molding compound on warpage behavior of semiconductor package. Materials Science in Semiconductor Processing, 2022, 148, 106758.	4.0	6
156	Reliable joining of the spring wire to polymer composite for the micro-multi-functional actuator of cellular phones. Composite Structures, 2006, 76, 252-259.	5.8	5
157	Smart cure cycle to improve tensile load capability of the adhesively bonded joint. Journal of Adhesion Science and Technology, 2013, 27, 1739-1754.	2.6	5
158	Measurements of Dynamic Characteristics of Intermediate Layer in Thin Semiconductors. Journal of Nanoscience and Nanotechnology, 2013, 13, 7969-7974.	0.9	5
159	Multiple intense pulsed light sintering of silane surface modified Cu oxide nanoparticle paste on Si wafer substrate for solar cell electrode. Thin Solid Films, 2021, 722, 138577.	1.8	5
160	Torque Transmission Characteristics of the Press Fit Joint Between the Aluminum Shaft and Steel Ring with Small Teeth. Mechanics Based Design of Structures and Machines, 2011, 39, 100-117.	4.7	4
161	Finite element analysis of moisture induced thermo-mechanical delamination of semiconductor packages considering in-situ moisture desorption during reflow process. Microelectronics Reliability, 2021, 121, 114146.	1.7	4
162	Ultra-fast annealing to reduce the residual stress in ultra-thin chips using flash light. Journal of Micromechanics and Microengineering, 2014, 24, 045006.	2.6	3

#	ARTICLE	IF	CITATIONS
163	Photonic sintering via flash white light combined with deep UV and NIR for SrTiO ₃ thin film vibration touch panel applications. <i>Nanotechnology</i> , 2016, 27, 505209.	2.6	3
164	Development of deformation model for simulation of mechanical behaviors of coated-cladding. <i>Journal of Nuclear Science and Technology</i> , 2018, 55, 1225-1234.	1.3	3
165	Evaluation of mechanical/dynamic properties of polyetherimide recycled polymer concrete for reducing rail slab noise. <i>Functional Composites and Structures</i> , 2019, 1, 025002.	3.4	3
166	Bi-directional homogenization equivalent modeling for the prediction of thermo-mechanical properties of a multi-layered printed circuit board (PCB). <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 045006.	2.6	2
167	Study of Mechanical and Hygroscopic Characteristics of Nanoclay/Epoxy Nanocomposites. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2016, 40, 139-145.	0.2	2
168	Optimization of Lightened Fiber-Reinforced Composite City & Trekking Bicycle Frame. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2016, 40, 147-156.	0.2	2
169	Depth Gradient Reduced Graphene Oxide Layer via Intense Pulsed Light Annealing Process for the Flexible Resistive Random Access Memory Device. <i>Advanced Electronic Materials</i> , 2022, 8, 2101018.	5.1	2
170	Multiscale Simulations for Impact Load-Induced Vibration: Assessing a Structure's Vulnerability. <i>Journal of Engineering Materials and Technology</i> , <i>Transactions of the ASME</i> , 2013, 135, .	1.4	1
171	In vivo stiffness measurement and in silico stiffness prediction of biceps brachii muscle using an isometric contraction exercise. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 2881-2889.	1.5	1
172	Sustainable Fabrication of Palladium Nanoparticles Using Stevia Rebaudiana Tea and Its Catalytic Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4251-4256.	0.9	1
173	Development of FRACAS-CT module with FRAPCON4.OP01 for simulation of mechanical behaviors for accident-tolerant fuel cladding in a reactor. <i>Journal of Nuclear Science and Technology</i> , 2019, 56, 671-683.	1.3	1
174	Measurement of the dynamic mechanical properties of high-strength steel using wave propagation characteristics. <i>Journal of the Korean Physical Society</i> , 2014, 64, 1814-1818.	0.7	0
175	Real time thickness measurement based on terahertz time-domain spectroscopy for chip-top epoxy molding compound in semiconductor package. , 2018, , .		0
176	The prediction of laminate stacking sequence of E-glass/epoxy laminated composites using electromagnetic behavior of terahertz wave. , 2018, , .		0
177	Direct evaluation method to measure permittivity and conductivity of thin layers via wave approach in the THz region. <i>AIP Advances</i> , 2019, 9, .	1.3	0