

Seongpil An

List of Publications by Year in descending order

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106
papers

3,917
citations

145106

33
h-index

156644

58
g-index

109
all docs

109
docs citations

109
times ranked

5158
citing authors

#	ARTICLE	IF	CITATIONS
1	Wearable sensors and supercapacitors using electroplated-Ni/ZnO antibacterial fabric. <i>Journal of Materials Science and Technology</i> , 2022, 100, 254-264.	5.6	18
2	Wearable multifunctional soft sensor and contactless 3D scanner using supersonically sprayed silver nanowires, carbon nanotubes, zinc oxide, and PEDOT:PSS. <i>NPG Asia Materials</i> , 2022, 14, .	3.8	14
3	Characterization of Biological Properties of Dental Pulp Stem Cells Grown on an Electrospun Poly(L-lactide-co-caprolactone) Scaffold. <i>Materials</i> , 2022, 15, 1900.	1.3	7
4	Pool boiling enhancement via nanotexturing and self-propelled swing motion for bubble shedding. <i>International Communications in Heat and Mass Transfer</i> , 2022, 133, 105934.	2.9	3
5	Biocompatible and mechanically-reinforced tribopositive nanofiber mat for wearable and antifungal human kinetic-energy harvester based on wood-derived natural product. <i>Nano Energy</i> , 2022, 96, 107091.	8.2	25
6	Nanotextured Soft Electrothermo-Pneumatic Actuator for Constructing Lightweight, Integrated, and Untethered Soft Robotics. <i>Soft Robotics</i> , 2022, 9, 960-969.	4.6	8
7	Recent advances in pain management based on nanoparticle technologies. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	4.2	21
8	Reusable Filters Augmented with Heating Microfibers for Antibacterial and Antiviral Sterilization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 857-867.	4.0	23
9	Supersonically Sprayed Washable, Wearable, Stretchable, Hydrophobic, and Antibacterial rGO/AgNW Fabric for Multifunctional Sensors and Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10013-10025.	4.0	70
10	Enhanced cooling of high-power microelectronics with swing-like pool boiling. <i>International Communications in Heat and Mass Transfer</i> , 2021, 125, 105338.	2.9	6
11	Review of recent progress in the supersonic cold-spraying technique with solid particles and liquid suspensions. <i>Experiments in Fluids</i> , 2021, 62, 1.	1.1	8
12	Pool boiling enhancement by nanotextured surface of hierarchically structured electroplated Ni nanocones. <i>International Journal of Heat and Mass Transfer</i> , 2021, 173, 121203.	2.5	10
13	Self-Healing Structural Materials. <i>Polymers</i> , 2021, 13, 2297.	2.0	14
14	Reusable and durable electrostatic air filter based on hybrid metallized microfibers decorated with metal-organic framework nanocrystals. <i>Journal of Materials Science and Technology</i> , 2021, 85, 44-55.	5.6	11
15	Superhydrophobic antibacterial wearable metallized fabric as supercapacitor, multifunctional sensors, and heater. <i>Journal of Power Sources</i> , 2021, 506, 230142.	4.0	28
16	Supersonically sprayed transparent flexible multifunctional composites for self-cleaning, anti-icing, anti-fogging, and anti-bacterial applications. <i>Composites Part B: Engineering</i> , 2021, 222, 109070.	5.9	49
17	Effect of heater wire configuration and nanotexturing on force generated by self-propelled bubble-driven propeller. <i>International Journal of Heat and Mass Transfer</i> , 2021, 184, 122274.	2.5	1
18	In vitro evaluation of Pt-coated electrospun nanofibers for endovascular coil embolization. <i>Acta Biomaterialia</i> , 2020, 101, 285-292.	4.1	2

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19	Mechanical behavior of sintered submicron glass fiber mats. <i>International Journal of Mechanical Sciences</i> , 2020, 170, 105354.	3.6	3
20	Supersonic Cold Spraying for Energy and Environmental Applications: One-Step Scalable Coating Technology for Advanced Micro- and Nanotextured Materials. <i>Advanced Materials</i> , 2020, 32, e1905028.	11.1	67
21	Flexible heat-spreading and air-cooling films using nickel-electroplated nanotextured fibers. <i>Chemical Engineering Science</i> , 2020, 227, 115951.	1.9	7
22	Theoretical model of swirling thick film flow inside converging nozzles of various geometries. <i>Fuel</i> , 2020, 280, 118215.	3.4	10
23	Performance Enhancement of Soft Nanotextured Thermopneumatic Actuator by Incorporating Silver Nanowires into Elastomer Body. <i>Soft Robotics</i> , 2020, 8, 711-719.	4.6	3
24	Sustainable Nanotextured Wave Energy Harvester Based on Ferroelectric Fatigue-Free and Flexoelectricity-Enhanced Piezoelectric P(VDF-TrFE) Nanofibers with BaSrTiO ₃ Nanoparticles. <i>Advanced Functional Materials</i> , 2020, 30, 2001150.	7.8	47
25	Highly nanotextured nickel-electroplated bismuth vanadate micropillars for hotspot removal via air-and spray-cooling. <i>International Journal of Heat and Mass Transfer</i> , 2020, 156, 119731.	2.5	17
26	Transparent Metallized Microfibers as Recyclable Electrostatic Air Filters with Ionization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25266-25275.	4.0	22
27	Experimental and numerical study of smoke behavior in high-rise stairwells with open and closed windows. <i>International Journal of Thermal Sciences</i> , 2020, 157, 106500.	2.6	8
28	Constitutive modeling of polymers accounting for their hyperelasticity, plasticity, creep and viscoelastic relaxation. <i>Polymer Testing</i> , 2020, 85, 106444.	2.3	9
29	Transparent Body-Attachable Multifunctional Pressure, Thermal, and Proximity Sensor and Heater. <i>Scientific Reports</i> , 2020, 10, 2701.	1.6	28
30	Electrostatic Transparent Air Filter Membranes Composed of Metallized Microfibers for Particulate Removal. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26323-26332.	4.0	39
31	Wearable, Stretchable, Transparent All-in-One Soft Sensor Formed from Supersonically Sprayed Silver Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40232-40242.	4.0	62
32	Programmable soft robotics based on nano-textured thermo-responsive actuators. <i>Nanoscale</i> , 2019, 11, 2065-2070.	2.8	29
33	Fabrication of Vascular Nanofiber Networks with Encapsulated Self-Healing Agents for Mechanical Recovery. <i>Advanced Structured Materials</i> , 2019, , 77-119.	0.3	1
34	Healing Agents Used for Mechanical Recovery in Nanotextured Systems. <i>Advanced Structured Materials</i> , 2019, , 25-36.	0.3	0
35	Macroscopic Observations of Physicochemical Aspects of Self-Healing Phenomena. <i>Advanced Structured Materials</i> , 2019, , 37-74.	0.3	0
36	Self-Healing of Mechanical Properties: Evaluation by Tensile Testing. <i>Advanced Structured Materials</i> , 2019, , 165-194.	0.3	0

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37	Capsule-Based Self-Healing Approaches for Corrosion Protection. <i>Advanced Structured Materials</i> , 2019, , 231-244.	0.3	0
38	Highly transparent, conducting, body-attachable metallized fibers as a flexible and stretchable film. <i>Journal of Alloys and Compounds</i> , 2019, 790, 1127-1136.	2.8	19
39	Failure, Cracks, Fracture, Fatigue, Delamination, Adhesion, and Cohesion. <i>Advanced Structured Materials</i> , 2019, , 137-163.	0.3	0
40	Self-Healing Nanotextured Vascular Engineering Materials. <i>Advanced Structured Materials</i> , 2019, , .	0.3	22
41	Eco-friendly lignin nanofiber mat for protection of wood against attacks by environmentally hazardous fungi. <i>Polymer Testing</i> , 2019, 74, 113-118.	2.3	9
42	Characterization of Self-Healing Phenomena on Micro- and Nanoscale Level. <i>Advanced Structured Materials</i> , 2019, , 121-134.	0.3	0
43	Self-Healing at Ply Surfaces: Adhesion, Cohesion, and Interfacial Toughening Evaluated Using Blister and Impact Tests. <i>Advanced Structured Materials</i> , 2019, , 195-228.	0.3	0
44	A review on corrosion-protective extrinsic self-healing: Comparison of microcapsule-based systems and those based on core-shell vascular networks. <i>Chemical Engineering Journal</i> , 2018, 344, 206-220.	6.6	185
45	Zeolitic imidazolate framework-7 textile-derived nanocomposite fibers as freestanding supercapacitor electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2018, 810, 239-247.	1.9	34
46	Advances in self-healing materials based on vascular networks with mechanical self-repair characteristics. <i>Advances in Colloid and Interface Science</i> , 2018, 252, 21-37.	7.0	84
47	Packing of metalized polymer nanofibers for aneurysm embolization. <i>Nanoscale</i> , 2018, 10, 6589-6601.	2.8	7
48	Modifying capillary pressure and boiling regime of micro-porous wicks textured with graphene oxide. <i>Applied Thermal Engineering</i> , 2018, 128, 1605-1610.	3.0	26
49	Self-healing three-dimensional bulk materials based on core-shell nanofibers. <i>Chemical Engineering Journal</i> , 2018, 334, 1093-1100.	6.6	39
50	Oxidation-resistant metallized nanofibers as transparent conducting films and heaters. <i>Acta Materialia</i> , 2018, 143, 174-180.	3.8	29
51	Wearable transparent thermal sensors and heaters based on metal-plated fibers and nanowires. <i>Nanoscale</i> , 2018, 10, 19825-19834.	2.8	40
52	Natural Biopolymer-Based Triboelectric Nanogenerators via Fast, Facile, Scalable Solution Blowing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37749-37759.	4.0	47
53	A blister-like soft nano-textured thermo-pneumatic actuator as an artificial muscle. <i>Nanoscale</i> , 2018, 10, 16591-16600.	2.8	26
54	Supersonically spray-coated copper meshes as textured surfaces for pool boiling. <i>International Journal of Thermal Sciences</i> , 2018, 132, 26-33.	2.6	32

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55	Flexible freestanding Fe ₂ O ₃ -SnO ₂ -carbon nanofiber composites for Li ion battery anodes. <i>Journal of Alloys and Compounds</i> , 2017, 700, 259-266.	2.8	32
56	Decoration of MnO Nanocrystals on Flexible Freestanding Carbon Nanofibers for Lithium Ion Battery Anodes. <i>Electrochimica Acta</i> , 2017, 231, 582-589.	2.6	53
57	Highly flexible, stretchable, patternable, transparent copper fiber heater on a complex 3D surface. <i>NPG Asia Materials</i> , 2017, 9, e347-e347.	3.8	113
58	Facile processes for producing robust, transparent, conductive platinum nanofiber mats. <i>Nanoscale</i> , 2017, 9, 6076-6084.	2.8	19
59	A comprehensive review on wettability, desalination, and purification using graphene-based materials at water interfaces. <i>Catalysis Today</i> , 2017, 295, 14-25.	2.2	55
60	Effects of impact conditions on the electrical and mechanical properties of supersonic cold sprayed Cu-Ni electrodes. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3714-3721.	2.8	9
61	High-performance supercapacitors using flexible and freestanding MnOx/carbamide carbon nanofibers. <i>Applied Surface Science</i> , 2017, 423, 210-218.	3.1	26
62	Effects of capillarity on pool boiling using nano-textured surfaces through electrosprayed BiVO ₄ nano-pillars. <i>Chemical Engineering Science</i> , 2017, 171, 360-367.	1.9	23
63	Supersonically sprayed, triangular copper lines for pool boiling enhancement. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 210-216.	2.5	15
64	Highly flexible, stretchable, wearable, patternable and transparent heaters on complex 3D surfaces formed from supersonically sprayed silver nanowires. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6677-6685.	5.2	109
65	Prevention of mold invasion by eco-friendly lignin/polycaprolactone nanofiber membranes for amelioration of public hygiene. <i>Cellulose</i> , 2017, 24, 951-965.	2.4	11
66	Tuning crystalline structure of zeolitic metal-organic frameworks by supersonic spraying of precursor nanoparticle suspensions. <i>Materials and Design</i> , 2017, 114, 416-423.	3.3	4
67	Self-Cleaning Anticondensing Glass via Supersonic Spraying of Silver Nanowires, Silica, and Polystyrene Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35325-35332.	4.0	29
68	Wetting and Coalescence of Drops of Self-Healing Agents on Electrospun Nanofiber Mats. <i>Langmuir</i> , 2017, 33, 10663-10672.	1.6	9
69	Self-Healing Nanotextured Vascular-like Materials: Mode I Crack Propagation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27223-27231.	4.0	23
70	Supersonically sprayed gas- and water-sensing MIL-100(Fe) films. <i>Journal of Alloys and Compounds</i> , 2017, 722, 996-1001.	2.8	21
71	Carbon nanofibers decorated with FeO nanoparticles as a flexible electrode material for symmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2017, 328, 776-784.	6.6	62
72	Silver-decorated and palladium-coated copper-electroplated fibers derived from electrospun polymer nanofibers. <i>Chemical Engineering Journal</i> , 2017, 327, 336-342.	6.6	30

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73	Bio-inspired, colorful, flexible, defrostable light-scattering hybrid films for the effective distribution of LED light. <i>Nanoscale</i> , 2017, 9, 9139-9147.	2.8	21
74	Nanotextured cupric oxide nanofibers coated with atomic layer deposited ZnO-TiO ₂ as highly efficient photocathodes. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 479-485.	10.8	41
75	Enhancement of critical heat flux and superheat through controlled wettability of cuprous-oxide fractal-like nanotextured surfaces in pool boiling. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 105-111.	2.5	48
76	Wetting of inclined nano-textured surfaces by self-healing agents. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	6
77	Self-junctioned Copper Nanofiber Transparent Flexible Conducting Film via Electrospinning and Electroplating. <i>Advanced Materials</i> , 2016, 28, 7149-7154.	11.1	141
78	Freestanding fiber mats of zeolitic imidazolate framework 7 via one-step, scalable electrospinning. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	19
79	Nano-textured copper oxide nanofibers for efficient air cooling. <i>Journal of Applied Physics</i> , 2016, 119, 065306.	1.1	20
80	Efficient heat removal via thorny devil nanofiber, silver nanowire, and graphene nanotextured surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 198-204.	2.5	9
81	Scalable Binder-Free Supersonic Cold Spraying of Nanotextured Cupric Oxide (CuO) Films as Efficient Photocathodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15406-15414.	4.0	44
82	Supersonically sprayed reduced graphene oxide film to enhance critical heat flux in pool boiling. <i>International Journal of Heat and Mass Transfer</i> , 2016, 98, 124-130.	2.5	57
83	Flexible, Freestanding, and Binder-free SnO ₂ /ZnO/Carbon Nanofiber Composites for Lithium Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9446-9453.	4.0	83
84	Weaving nanofibers by altering counter-electrode electrostatic signals. <i>Journal of Aerosol Science</i> , 2016, 95, 67-72.	1.8	7
85	Polyacrylonitrile nanofibers with added zeolitic imidazolate frameworks (ZIF-7) to enhance mechanical and thermal stability. <i>Journal of Applied Physics</i> , 2015, 118, 245307.	1.1	5
86	Photoelectrochemical solar water splitting using electrospun TiO ₂ nanofibers. <i>Applied Surface Science</i> , 2015, 328, 109-114.	3.1	27
87	Novel Composite Layer Based on Electrospun Polymer Nanofibers for Efficient Light Scattering. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 68-74.	4.0	22
88	Self-healing Nanofiber-Reinforced Polymer Composites. 2. Delamination/Debonding and Adhesive and Cohesive Properties. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19555-19561.	4.0	57
89	Self-cleaning transparent superhydrophobic coatings through simple sol-gel processing of fluoroalkylsilane. <i>Applied Surface Science</i> , 2015, 351, 897-903.	3.1	208
90	Highly flexible transparent self-healing composite based on electrospun core-shell nanofibers produced by coaxial electrospinning for anti-corrosion and electrical insulation. <i>Nanoscale</i> , 2015, 7, 17778-17785.	2.8	91

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91	Electrically-charged recyclable graphene flakes entangled with electrospun nanofibers for the adsorption of organics for water purification. <i>Nanoscale</i> , 2015, 7, 19170-19177.	2.8	23
92	Self-Healing Nanofiber-Reinforced Polymer Composites. 1. Tensile Testing and Recovery of Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19546-19554.	4.0	78
93	Enhanced solar water splitting of electron beam irradiated titania photoanode by electrostatic spray deposition. <i>Applied Surface Science</i> , 2014, 319, 205-210.	3.1	9
94	Effect of viscosity, electrical conductivity, and surface tension on direct-current-pulsed drop-on-demand electrohydrodynamic printing frequency. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	64
95	Water purification and toxicity control of chlorophenols by 3D nanofiber membranes decorated with photocatalytic titania nanoparticles. <i>Ceramics International</i> , 2014, 40, 3305-3313.	2.3	32
96	Electrospun graphene-ZnO nanofiber mats for photocatalysis applications. <i>Applied Surface Science</i> , 2014, 294, 24-28.	3.1	99
97	Supersonically Blown Ultrathin Thorny Devil Nanofibers for Efficient Air Cooling. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13657-13666.	4.0	24
98	Hybrid Self-Healing Matrix Using Core-shell Nanofibers and Capsuleless Microdroplets. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10461-10468.	4.0	83
99	Self-healing transparent core-shell nanofiber coatings for anti-corrosive protection. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7045.	5.2	111
100	Electrospun Polystyrene Nanofiber Membrane with Superhydrophobicity and Superoleophilicity for Selective Separation of Water and Low Viscous Oil. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10597-10604.	4.0	354
101	Effects of pulsing frequency on characteristics of electrohydrodynamic inkjet using micro-Al and nano-Ag particles. <i>Experimental Thermal and Fluid Science</i> , 2013, 46, 103-110.	1.5	30
102	High energy electron beam irradiated TiO ₂ photoanodes for improved water splitting. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13567.	5.2	29
103	Highly Efficient Wettability Control via Three-Dimensional (3D) Suspension of Titania Nanoparticles in Polystyrene Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1232-1239.	4.0	48
104	Supersonic nanoblowing: a new ultra-stiff phase of nylon 6 in 20-50 nm confinement. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3491.	2.7	61
105	Antibacterial activity of photocatalytic electrospun titania nanofiber mats and solution-blown soy protein nanofiber mats decorated with silver nanoparticles. <i>Catalysis Communications</i> , 2013, 34, 35-40.	1.6	49
106	Enhancing Solar Radiant Heat Transfer Using Supersonically Sprayed rGO/AgNW Textured Surfaces. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 0, , 1.	2.7	2