

Shinill Kang

List of Publications by Year in descending order

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48
papers

1,430
citations

471061

17
h-index

329751

37
g-index

50
all docs

50
docs citations

50
times ranked

2696
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical MnCo-layered double hydroxides@Ni(OH) ₂ core-shell heterostructures as advanced electrodes for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1043-1049.	5.2	296
2	Rough-Surface-Enabled Capacitive Pressure Sensors with 3D Touch Capability. <i>Small</i> , 2017, 13, 1700368.	5.2	142
3	Controlled electrochemical growth of Co(OH) ₂ flakes on 3D multilayered graphene foam for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19075-19083.	5.2	117
4	Transparent, Flexible, Conformal Capacitive Pressure Sensors with Nanoparticles. <i>Small</i> , 2018, 14, 1703432.	5.2	112
5	Controllable sulfuration engineered NiO nanosheets with enhanced capacitance for high rate supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4543-4549.	5.2	105
6	Fabrication of superhydrophobic surfaces with nano-in-micro structures using UV-nanoimprint lithography and thermal shrinkage films. <i>Applied Surface Science</i> , 2015, 349, 169-173.	3.1	70
7	Copper Hydroxide Nanorods Decorated Porous Graphene Foam Electrodes for Non-enzymatic Glucose Sensing. <i>Electrochimica Acta</i> , 2016, 191, 954-961.	2.6	67
8	Fabrication of ultra-high energy and power asymmetric supercapacitors based on hybrid 2D MoS ₂ /graphene oxide composite electrodes: a binder-free approach. <i>RSC Advances</i> , 2016, 6, 43261-43271.	1.7	41
9	Graphene-Iodine Nanocomposites: Highly Potent Bacterial Inhibitors that are Bio-compatible with Human Cells. <i>Scientific Reports</i> , 2016, 6, 20015.	1.6	38
10	Near-field sub-diffraction photolithography with an elastomeric photomask. <i>Nature Communications</i> , 2020, 11, 805.	5.8	36
11	High-concentration dispersions of exfoliated MoS ₂ sheets stabilized by freeze-dried silk fibroin powder. <i>Nano Research</i> , 2016, 9, 1709-1722.	5.8	31
12	Fabrication of metallic nano-stamper and replication of nano-patterned substrate for patterned media. <i>Nanotechnology</i> , 2004, 15, 901-906.	1.3	28
13	Surface plasmon enhancement of photoluminescence in photo-chemically synthesized graphene quantum dot and Au nanosphere. <i>Nano Research</i> , 2016, 9, 1866-1875.	5.8	28
14	Reduced graphene oxide enwrapped phosphors for long-term thermally stable phosphor converted white light emitting diodes. <i>Scientific Reports</i> , 2016, 6, 33993.	1.6	27
15	Acoustically sticky topographic metasurfaces for underwater sound absorption. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 1534-1547.	0.5	24
16	The Effect of Wettability of Nickel Mold Insert on the Surface Quality of Molded Microlenses. <i>Optical Review</i> , 2003, 10, 290-294.	1.2	17
17	Injection Molding of Nanopillars for Perpendicular Patterned Magnetic Media with Metallic Nanostamp. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 1803-1805.	0.8	17
18	Impact of different nanostructures of a PEDOT decorated 3D multilayered graphene foam by chemical methods on supercapacitive performance. <i>RSC Advances</i> , 2015, 5, 107864-107871.	1.7	17

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19	Replication of high density optical disc using injection mold with MEMS heater. <i>Microsystem Technologies</i> , 2005, 11, 464-469.	1.2	16
20	Design methodology for a confocal imaging system using an objective microlens array with an increased working distance. <i>Scientific Reports</i> , 2016, 6, 33278.	1.6	16
21	Binding characteristics of staphylococcal protein A and streptococcal protein G for fragment crystallizable portion of human immunoglobulin G. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3372-3383.	1.9	16
22	Development of experimental method to characterize pressure-dependent yield criteria for polymeric foams. <i>Polymer Testing</i> , 2003, 22, 197-202.	2.3	15
23	Fabrication of Metallic Nano Stamp to Replicate Patterned Substrate Using Electron-Beam Recording, Nanoimprinting, and Electroforming. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 2304-2307.	1.2	15
24	Megahertz-wave-transmitting conducting polymer electrode for device-to-device integration. <i>Nature Communications</i> , 2019, 10, 653.	5.8	15
25	Electrical, Structural, Optical, and Adhesive Characteristics of Aluminum-Doped Tin Oxide Thin Films for Transparent Flexible Thin-Film Transistor Applications. <i>Materials</i> , 2019, 12, 137.	1.3	13
26	Unlockable knee joint mechanism for powered gait orthosis. <i>International Journal of Precision Engineering and Manufacturing</i> , 2009, 10, 83-89.	1.1	12
27	A method for evaluation of an optical image stabilizer in an image sensor module. <i>International Journal of Precision Engineering and Manufacturing</i> , 2011, 12, 367-370.	1.1	11
28	Modeling and simulation of powered hip orthosis by pneumatic actuators. <i>International Journal of Control, Automation and Systems</i> , 2010, 8, 59-66.	1.6	9
29	Real-Time Compensation of Simultaneous Errors Induced by Optical Phase Difference and Substrate Motion in Scanning Beam Laser Interference Lithography System. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 1491-1500.	3.7	8
30	Effect of alumina composition and surface integrity in alumina/epoxy composites on the ultrasonic attenuation properties. <i>Ultrasonics</i> , 2016, 66, 133-139.	2.1	7
31	Active Accumulation of Spherical Analytes on Plasmonic Hot Spots of Double-Bent Au Strip Arrays by Multiple Dip-Coating. <i>Nanomaterials</i> , 2019, 9, 660.	1.9	7
32	Development of Direct Deep Reactive Ion Etching Process Using Laser Interference Lithographed Etch Barrier without Intermediate Layer. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 10MC04.	0.8	5
33	Fundamental monomeric biomaterial diagnostics by radio frequency signal analysis. <i>Biosensors and Bioelectronics</i> , 2016, 82, 255-261.	5.3	5
34	Sustainable Fabrication of Glass Nanostructures Using Infrared Transparent Mold Assisted by CO2 Laser Scanning Irradiation. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	1.3	5
35	Design and Fabrication of Perpendicular Patterned Magnetic Media Using Nanoimprinted Nano Pillar Patterns. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 2288-2291.	1.2	4
36	Effect of ladle outlet geometry on internal porosity in gravity casting automotive brackets: An experimental investigation. <i>China Foundry</i> , 2020, 17, 56-60.	0.5	4

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37	Binary-state scanning probe microscopy for parallel imaging. Nature Communications, 2022, 13, 1438.	5.8	4
38	Effect of thermal deformations of an optical pick-up base on the optical properties of DVD optical system. Microsystem Technologies, 2005, 11, 1065-1070.	1.2	3
39	Micro thermal design of swing arm type small form factor optical pick-up system. Microsystem Technologies, 2006, 12, 1093-1097.	1.2	3
40	Application of Organic/Inorganic Hybrid Photopolymer to Fabricate Ultra-High-Density Patterned Substrate. IEEE Transactions on Magnetics, 2009, 45, 2300-2303.	1.2	3
41	Measurement and Analysis of Magnetic Domain Properties of High-Density Patterned Media by Magnetic Force Microscopy. IEEE Transactions on Magnetics, 2009, 45, 2308-2311.	1.2	3
42	Au/Si Bilayer Nanodisks with Tunable Localized Surface Plasmon Resonance for Optical Coherence Tomography in the Second Near-Infrared Window. Advanced Photonics Research, 2022, 3, .	1.7	3
43	ORS-01 Design of the Optical Path for Small Form Factor Optical Disk Drive. Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2003, 2003, 265-266.	0.0	2
44	Gigapixel confocal imaging using a massively parallel optical probe array with single directional infinite scanning. Scientific Reports, 2020, 10, 7658.	1.6	2
45	Design of antireflective subwavelength grating structure for infrared medical imaging. , 2010, , .		0
46	Replication of label-free guided mode resonance filter for protein-sensors using UV nanoimprinting process with metallic nano stamp. , 2010, , .		0
47	The effect of oxidation concentration on the adhesion between flexible substrate and metal layer in metal transfer process using UV curable polymer. Journal of Micromechanics and Microengineering, 2019, 29, 065007.	1.5	0
48	MICRO FORMING OF GLASS MICROLENS ARRAY USING AN IMPRINTED AND SINTERED TUNGSTEN CARBIDE MICRO MOLD. , 2009, , .		0