

Sang Hyun Lee

List of Publications by Year in descending order

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papers

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docs citations

37
times ranked

1643
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar-driven enhanced chemical adsorption and interfacial evaporation using porous graphene-based spherical composites. <i>Chemosphere</i> , 2022, 291, 133013.	8.2	6
2	Additive effect of graphene oxide on the formation of blue emissive CsPbBr ₃ nanoplates. <i>Applied Surface Science</i> , 2022, 584, 152575.	6.1	3
3	Tailoring the internal structure of porous copper film via size-controlled copper nanosheets for electromagnetic interference shielding. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 278, 115611.	3.5	5
4	Heat dissipation of underlying multilayered graphene layers grown on Cu–Ni alloys for high-performance interconnects. <i>Applied Surface Science</i> , 2022, 583, 152506.	6.1	1
5	Integration of multiple electronic components on a microfibre towards an emerging electronic textile platform. <i>Nature Communications</i> , 2022, 13, .	12.8	27
6	Rapid and highly sensitive pathogen detection by real-time DNA monitoring using a nanogap impedimetric sensor with recombinase polymerase amplification. <i>Biosensors and Bioelectronics</i> , 2021, 179, 113042.	10.1	13
7	Performance enhancement of graphene assisted CNT/Cu composites for lightweight electrical cables. <i>Carbon</i> , 2021, 179, 53-59.	10.3	15
8	Fanless, porous graphene-copper composite heat sink for micro devices. <i>Scientific Reports</i> , 2021, 11, 17607.	3.3	8
9	Swift isotropic heat transport of 3D graphene platform-based metal-graphene composites. <i>Carbon</i> , 2021, 183, 93-99.	10.3	6
10	Hierarchical Porous Film with Layer-by-Layer Assembly of 2D Copper Nanosheets for Ultimate Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2021, 15, 829-839.	14.6	85
11	Structure-controllable growth of nitrogenated graphene quantum dots via solvent catalysis for selective C-N bond activation. <i>Nature Communications</i> , 2021, 12, 5879.	12.8	25
12	Simultaneous Temperature and Strain Sensing With Hybrid Resonator of Fiber Bragg Grating and Whispering Gallery Resonator. <i>IEEE Sensors Journal</i> , 2020, 20, 2962-2966.	4.7	9
13	Triboelectric effect of surface morphology controlled laser induced graphene. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19822-19832.	10.3	34
14	Surface-functionalized 3D porous rGO-polysaccharide sphere composites for rapid selective protein adsorption from crude biological liquid. <i>Applied Surface Science</i> , 2020, 526, 146707.	6.1	1
15	All-Solid-State Organic Schmitt Trigger Implemented by Twin Two-In-One Ferroelectric Memory Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 1901263.	5.1	5
16	Two-in-One Device with Versatile Compatible Electrical Switching or Data Storage Functions Controlled by the Ferroelectricity of P(VDF-TrFE) via Photocrosslinking. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25358-25368.	8.0	7
17	Rare-Earth-Element-Terbium-Substituted Lead-Free Inorganic Perovskite Nanocrystals for Optoelectronic Applications. <i>Advanced Materials</i> , 2019, 31, e1901716.	21.0	81
18	Low-Voltage Organic Transistor Memory Fiber with a Nanograined Organic Ferroelectric Film. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22575-22582.	8.0	33

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19	Polarity effects of ZnO on charge recombination at CsPbBr ₃ nanoparticles/ZnO interfaces. <i>Applied Surface Science</i> , 2019, 483, 165-169.	6.1	11
20	Ultrastrong Graphene-Copper Core-Shell Wires for High-Performance Electrical Cables. <i>ACS Nano</i> , 2018, 12, 2803-2808.	14.6	52
21	Metal nanofibrils embedded in long free-standing carbon nanotube fibers with a high critical current density. <i>NPG Asia Materials</i> , 2018, 10, 146-155.	7.9	23
22	2D Single-Crystalline Copper Nanoplates as a Conductive Filler for Electronic Ink Applications. <i>Small</i> , 2018, 14, 1703312.	10.0	47
23	Enhancement of Adsorption Performance for Organic Molecules by Combined Effect of Intermolecular Interaction and Morphology in Porous rGO-Incorporated Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17335-17344.	8.0	21
24	Large area thermal light emission from autonomously formed suspended graphene arrays. <i>Carbon</i> , 2018, 136, 217-223.	10.3	1
25	Plasmonic Silver Nanoparticle-Impregnated Nanocomposite BiVO ₄ Photoanode for Plasmon-Enhanced Photocatalytic Water Splitting. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7088-7093.	3.1	42
26	Hybrid dielectrics composed of Al ₂ O ₃ and phosphonic acid self-assembled monolayers for performance improvement in low voltage organic field effect transistors. <i>Nano Convergence</i> , 2018, 5, 20.	12.1	22
27	Multi-functional nitrogen self-doped graphene quantum dots for boosting the photovoltaic performance of BHJ solar cells. <i>Nano Energy</i> , 2017, 34, 36-46.	16.0	45
28	Porous copper-graphene heterostructures for cooling of electronic devices. <i>Nanoscale</i> , 2017, 9, 7565-7569.	5.6	17
29	An All-Organic Composite System for Resistive Change Memory via the Self-Assembly of Plastic-Crystalline Molecules. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2730-2738.	8.0	10
30	Graphene-Carbon-Metal Composite Film for a Flexible Heat Sink. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40801-40809.	8.0	18
31	Spontaneously restored electrical conductivity of bioactive gel comprising mussel adhesive protein-coated carbon nanotubes. <i>RSC Advances</i> , 2016, 6, 87044-87048.	3.6	7
32	Facile and Purification-Free Synthesis of Nitrogenated Amphiphilic Graphitic Carbon Dots. <i>Chemistry of Materials</i> , 2016, 28, 1481-1488.	6.7	74
33	A graphene superficial layer for the advanced electroforming process. <i>Nanoscale</i> , 2016, 8, 12710-12714.	5.6	6
34	One step synthesis of Au nanoparticle-cyclized polyacrylonitrile composite films and their use in organic nano-floating gate memory applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1511-1516.	5.5	14
35	Photocatalytic decomposition of graphene over a ZnO surface under UV irradiation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15683-15686.	2.8	9
36	Three-Dimensional Porous Copper-Graphene Heterostructures with Durability and High Heat Dissipation Performance. <i>Scientific Reports</i> , 2015, 5, 12710.	3.3	40

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37	Ordered Arrays of ZnO Nanorods Grown on Periodically Polarity-Inverted Surfaces. Nano Letters, 2008, 8, 2419-2422.	9.1	64