

Shengrong Yang

List of Publications by Year in descending order

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117571

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docs citations

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times ranked

7534
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Wound Dressing Based on Ag/Graphene Polymer Hydrogel: Effectively Kill Bacteria and Accelerate Wound Healing. <i>Advanced Functional Materials</i> , 2014, 24, 3933-3943.	7.8	671
2	Design and synthesis of Ni-MOF/CNT composites and rGO/carbon nitride composites for an asymmetric supercapacitor with high energy and power density. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13874-13883.	5.2	436
3	Flexible graphene/MnO ₂ composite papers for supercapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 14706.	6.7	389
4	Electrostatic layer-by-layer self-assembly multilayer films based on graphene and manganese dioxide sheets as novel electrode materials for supercapacitors. <i>Journal of Materials Chemistry</i> , 2011, 21, 3397.	6.7	212
5	One-pot sonochemical preparation of fluorographene and selective tuning of its fluorine coverage. <i>Journal of Materials Chemistry</i> , 2012, 22, 16950.	6.7	193
6	Robust, Stretchable, and Self-Healable Supramolecular Elastomers Synergistically Cross-Linked by Hydrogen Bonds and Coordination Bonds. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7387-7396.	4.0	165
7	The study of epoxidized rapeseed oil used as a potential biodegradable lubricant. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2000, 77, 561-563.	0.8	143
8	Covalent Functionalization of Fluorinated Graphene and Subsequent Application as Water-based Lubricant Additive. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7483-7488.	4.0	135
9	Fabrication of free-standing graphene/polyaniline nanofibers composite paper via electrostatic adsorption for electrochemical supercapacitors. <i>New Journal of Chemistry</i> , 2011, 35, 369-374.	1.4	131
10	MOF-derived Ni ₃ Co(OH) ₂ composite microspheres for high-performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 49478-49486.	1.7	101
11	Preparation of a reduced graphene oxide/zirconia nanocomposite and its application as a novel lubricant oil additive. <i>RSC Advances</i> , 2015, 5, 91802-91812.	1.7	97
12	Reduced Graphene Oxide/Marcasite-type Cobalt Selenide Nanocrystals as an Anode for Lithium-ion Batteries with Excellent Cyclic Performance. <i>ChemElectroChem</i> , 2015, 2, 1682-1686.	1.7	89
13	Preparation of a highly effective lubricating oil additive "ceria/graphene composite. <i>RSC Advances</i> , 2014, 4, 47096-47105.	1.7	84
14	Synthesis of carbon quantum dots with green luminescence from potato starch. <i>New Journal of Chemistry</i> , 2019, 43, 10826-10833.	1.4	84
15	An investigation of the friction and wear behaviors of micrometer copper particle- and nanometer copper particle-filled polyoxymethylene composites. <i>Journal of Applied Polymer Science</i> , 2000, 77, 2404-2410.	1.3	72
16	Friction and Wear Studies of Octadecyltrichlorosilane SAM on Silicon. <i>Tribology Letters</i> , 2002, 13, 233-239.	1.2	68
17	A simple and feasible in-situ reduction route for preparation of graphene lubricant films applied to a variety of substrates. <i>Journal of Materials Chemistry</i> , 2012, 22, 8036.	6.7	62
18	Cooperatively exfoliated fluorinated graphene with full-color emission. <i>RSC Advances</i> , 2012, 2, 11681.	1.7	60

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19	A simple two-step electrochemical synthesis of graphene sheets film on the ITO electrode as supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 881-884.	1.5	55
20	Photochemical synthesis of fluorinated graphene via a simultaneous fluorination and reduction route. <i>RSC Advances</i> , 2013, 3, 6327.	1.7	54
21	High-Performance Graphene Sponges Reinforced with Polyimide for Room-Temperature Piezoresistive Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8180-8189.	4.0	53
22	Low-temperature combustion synthesis of CuCr ₂ O ₄ spinel powder for spectrally selective paints. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 281-288.	1.1	51
23	Fluorine Doping Strengthens the Lithium-Storage Properties of the Mn-Based Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26907-26914.	4.0	48
24	Reducing Structural Defects and Oxygen-Containing Functional Groups in GO-Hybridized CNTs Aerogels: Simultaneously Improve the Electrical and Mechanical Properties To Enhance Pressure Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39009-39017.	4.0	46
25	Synthesis of a porous birnessite manganese dioxide hierarchical structure using thermally reduced graphene oxide paper as a sacrificing template for supercapacitor application. <i>New Journal of Chemistry</i> , 2012, 36, 1490.	1.4	45
26	Structural and tribological characterization of fluorinated graphene with various fluorine contents prepared by liquid-phase exfoliation. <i>RSC Advances</i> , 2014, 4, 56543-56551.	1.7	45
27	Preparation and properties of ZnO/sodium alginate bi-layered hydrogel films as novel wound dressings. <i>New Journal of Chemistry</i> , 2019, 43, 8684-8693.	1.4	44
28	PVA-SA-MXene dual-network conductive hydrogel for wearable sensor to monitor human motions. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51627.	1.3	44
29	Controllable synthesis of 3D hierarchical bismuth compounds with good electrochemical performance for advanced energy storage devices. <i>RSC Advances</i> , 2015, 5, 51773-51778.	1.7	43
30	An investigation of the friction and wear behaviors of polyphenylene sulfide filled with solid lubricants. <i>Polymer Engineering and Science</i> , 2000, 40, 1825-1832.	1.5	41
31	Graphene oxide-templated growth of MOFs with enhanced lithium-storage properties. <i>New Journal of Chemistry</i> , 2017, 41, 14209-14216.	1.4	39
32	Tribological Behavior of Ti ₃ SiC ₂ Sliding Against Ni-based Alloys at Elevated Temperatures. <i>Tribology Letters</i> , 2008, 31, 129-137.	1.2	38
33	Water-Soluble Graphene Quantum Dots as High-Performance Water-Based Lubricant Additive for Steel/Steel Contact. <i>Tribology Letters</i> , 2019, 67, 1.	1.2	37
34	Mechanical property and corrosion resistance of zirconia/polydopamine nanocomposite multilayer films fabricated via a novel non-electrostatic layer-by-layer assembly technique. <i>Surface and Interface Analysis</i> , 2011, 43, 803-808.	0.8	35
35	High efficiency shear exfoliation for producing high-quality, few-layered MoS ₂ nanosheets in a green ethanol/water system. <i>RSC Advances</i> , 2016, 6, 82763-82773.	1.7	35
36	Design and fabrication of carbonized rGO/CMOF-5 hybrids for supercapacitor applications. <i>RSC Advances</i> , 2016, 6, 13264-13271.	1.7	34

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37	Improvement of piezoresistive sensing behavior of graphene sponge by polyaniline nanoarrays. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7386-7394.	2.7	34
38	Graphene/MXene Composite Aerogels Reinforced by Polyimide for Pressure Sensing. <i>ACS Applied Nano Materials</i> , 2022, 5, 1068-1077.	2.4	34
39	Sol-gel template synthesis of LiV ₃ O ₈ nanowires. <i>Journal of Materials Science</i> , 2007, 42, 867-871.	1.7	32
40	Room temperature readily self-healing polymer via rationally designing molecular chain and crosslinking bond for flexible electrical sensor. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 152-161.	5.0	31
41	Hierarchical Co ₃ O ₄ @Au-decorated PPy core/shell nanowire arrays: an efficient integration of active materials for energy storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2535-2540.	5.2	30
42	Comparative study of hydrogenated diamondlike carbon film and hard hydrogenated graphitelike carbon film. <i>Journal of Applied Physics</i> , 2008, 103, 123531.	1.1	29
43	Graphene-wrapped CNT@MoS ₂ hierarchical structure: synthesis, characterization and electrochemical application in supercapacitors. <i>New Journal of Chemistry</i> , 2017, 41, 7142-7150.	1.4	29
44	A simple one-step solution deposition process for constructing high-performance amorphous zirconium oxide thin film. <i>RSC Advances</i> , 2014, 4, 6060.	1.7	28
45	Graphene-based cellular materials with extremely low density and high pressure sensitivity based on self-assembled graphene oxide liquid crystals. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8717-8725.	2.7	25
46	One-pot hydrothermal synthesis of CuO with tunable morphologies on Ni foam as a hybrid electrode for sensing glucose. <i>RSC Advances</i> , 2014, 4, 23319.	1.7	24
47	Ultralight GO-Hybridized CNTs Aerogels with Enhanced Electronic and Mechanical Properties for Piezoresistive Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26352-26361.	4.0	23
48	Scalable fabrication of high quality graphene by exfoliation of edge sulfonated graphite for supercapacitor application. <i>RSC Advances</i> , 2014, 4, 35914.	1.7	21
49	Construction of Highly Ordered Fluorinated Graphene Composite Coatings with Various Fluorine Contents for Enhanced Lubrication Performance. <i>Tribology Letters</i> , 2015, 60, 1.	1.2	21
50	Stretchable and self-healable electrical sensors with fingertip-like perception capability for surface texture discerning and biosignal monitoring. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9008-9017.	2.7	20
51	Synthesis of highly luminescent fluorinated graphene quantum dots with tunable fluorine coverage and size. <i>Materials Letters</i> , 2015, 143, 112-115.	1.3	18
52	Spectrally selective Cu _{1.5} Mn _{1.5} O ₄ spinel ceramic pigments for solar thermal applications. <i>RSC Advances</i> , 2016, 6, 32947-32955.	1.7	18
53	The mineral component of human cardiovascular deposits: morphological, structural and crystal-chemical characterization. <i>Crystal Research and Technology</i> , 2013, 48, 153-162.	0.6	17
54	Assembly of MnO ₂ nanowires@reduced graphene oxide hybrid with an interconnected structure for a high performance lithium ion battery. <i>RSC Advances</i> , 2014, 4, 54416-54421.	1.7	17

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55	Ionogel-based flexible stress and strain sensors. <i>International Journal of Smart and Nano Materials</i> , 2021, 12, 307-336.	2.0	17
56	Triboelectrification Electrostatic Potential of MC Nylon 6 under Point Contact Dry Sliding. <i>Tribology Letters</i> , 2009, 36, 199-208.	1.2	16
57	Conductive hydrogel-based flexible strain sensors with superior chemical stability and stretchability for mechanical sensing in corrosive solvents. <i>New Journal of Chemistry</i> , 2021, 45, 4647-4657.	1.4	16
58	Poly(vinyl alcohol)/Gelatin-Based Eutectogels for the Sensitive Strain Sensor with Recyclability and Multienvironmental Suitability. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3982-3993.	2.0	16
59	Preparation and characterization of Ni(OH) ₂ nanoparticles coated with dialkyldithiophosphate. <i>Journal of Materials Research</i> , 2000, 15, 541-545.	1.2	15
60	Non-isothermal Crystallization Kinetics of PA6/Attapulgite Composites Prepared by Melt Compounding. <i>Journal of Macromolecular Science - Physics</i> , 2006, 45, 1025-1037.	0.4	15
61	Interfacial interactions and performance of polyamide 6/modified attapulgite clay nanocomposites. <i>Polymer Composites</i> , 2009, 30, 147-153.	2.3	15
62	Debris formation process of PTFE and its composites. <i>Journal of Applied Polymer Science</i> , 1996, 61, 1223-1229.	1.3	14
63	Morphological, Thermal and Mechanical Properties of Compatibilized Nylon 6/ABS Blends. <i>Journal of Macromolecular Science - Physics</i> , 2008, 47, 712-722.	0.4	14
64	Superior Volumetric Capability Dual-Ion Batteries Enabled by A Microsize Niobium Tungsten Oxide Anode. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
65	CuCr ₂ O ₄ Spinel Ceramic Pigments Synthesized by Sol-Gel Self-Combustion Method for Solar Absorber Coatings. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 2814-2823.	1.2	13
66	A new route to synthesize polyaniline-grafted carboxyl-functionalized graphene composite materials with excellent electrochemical performance. <i>Iranian Polymer Journal (English Edition)</i> , 2017, 26, 423-430.	1.3	13
67	Fabrication and characterization of Zr and Co co-doped LiMn ₂ O ₄ nanowires using sol-gel AAO template process. <i>Journal of Materials Science: Materials in Electronics</i> , 2006, 17, 865-870.	1.1	12
68	Mechanical properties and thermostability of polyimide/mesoporous silica nanocomposite via effectively using the pores. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	12
69	The Self-Ordered Lamellar Texture of MoS ₂ Transfer Film Formed in Complex Lubrication. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701682.	1.9	12
70	Mechanical properties and thermal stability of porous polyimide/hollow mesoporous silica nanoparticles composite films prepared by using polystyrene microspheres as the pore-forming template. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48792.	1.3	12
71	Action of transfer film in improving friction and wear behaviors of iron- and copper-filled poly(ether) Tj ETQq1 1 0.784314 rgBT /Overlo	1.3	11
72	Intelligent Solid Lubricant Materials with Failure Early-Warning Based on Triboluminescence. <i>Tribology Letters</i> , 2019, 67, 1.	1.2	11

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73	The Tribological Properties of Fullerene-Like Hydrogenated Carbon (FL-C:H) Film under Different Humidity Conditions. Tribology Transactions, 2009, 52, 354-359.	1.1	10
74	Friction and Wear of Thermal Oxidation-Treated Ti ₃ SiC ₂ . Tribology Letters, 2010, 37, 59-67.	1.2	10
75	Preparation of hydroxyapatite ceramic through centrifugal casting process using ultra-fine spherical particles as precursor and its decomposition at high temperatures. Journal of Advanced Ceramics, 2012, 1, 60-65.	8.9	10
76	Preparation and property of ZrO ₂ /GO multi-layered nanocomposite lubricating film. RSC Advances, 2014, 4, 39743.	1.7	10
77	Microwave-assisted synthesis of hydroxyl modified fluorinated graphene with high fluorine content and its high load-bearing capacity as water lubricant additive for ceramic/steel contact. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125931.	2.3	10
78	Triboelectrification electrostatic potential of graphite/monomer casting nylon composites under dry sliding: Correlation with electrical resistivity and wear mechanisms. Polymer Composites, 2010, 31, 1369-1377.	2.3	9
79	Study on the Morphological and Mechanical Properties of Nylon 6/ABS/Nano-SiO ₂ Composites. Journal of Macromolecular Science - Physics, 2009, 48, 1069-1080.	0.4	9
80	Aqueous chemical solution deposition of spinel Cu _{1.5} Mn _{1.5} O ₄ single layer films for solar selective absorber. RSC Advances, 2016, 6, 54820-54829.	1.7	9
81	The Effect of Zirconium Phosphate Nanosheets on Thermal, Mechanical, and Tribological Properties of Polyimide. Macromolecular Materials and Engineering, 2020, 305, 2000043.	1.7	9
82	The chemical composition and bonding structure of Ba ²⁺ /Ca ²⁺ /Na ⁺ thin films deposited by reactive magnetron sputtering. Surface and Interface Analysis, 2009, 41, 865-871.	0.8	8
83	Pre-annealing induced oxide barrier to suppress the over-selenization of Mo contact. Journal of Materials Science: Materials in Electronics, 2016, 27, 11188-11191.	1.1	8
84	Heat- and freeze-tolerant organohydrogel with enhanced ionic conductivity over a wide temperature range for highly mechanoresponsive smart paint. Journal of Colloid and Interface Science, 2022, 608, 2158-2168.	5.0	8
85	A study of 2-(n-alkyldithio)-benzoxazoles as novel additives. Tribology Letters, 1999, 7, 173-177.	1.2	7
86	A case study of PTFE@SiO ₂ core-shell solid lubricant. Tribology International, 2021, 160, 107016.	3.0	7
87	The friction and wear behavior of 2-(n-alkyldithio)-benzimidazole as additives in liquid paraffin. Tribology Letters, 1999, 7, 27-30.	1.2	6
88	Application of peptide nucleic acids containing azobenzene self-assembled electrochemical biosensors in detecting DNA sequences. Science in China Series B: Chemistry, 2009, 52, 1009-1013.	0.8	6
89	Sonication-assisted solvothermal synthesis of noncovalent fluorographene/ceria nanocomposite with excellent extreme-pressure and anti-wear properties. Tribology International, 2021, 159, 106991.	3.0	6
90	Similar chemical composition with different tribological properties: Influences of C F bond strength and carbon-skeleton structure on fluorinated graphene and PTFE. Tribology International, 2022, 165, 107250.	3.0	6

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91	Superiority of Cubic Perovskites Oxides with Strong Bâ€O Hybridization for Oxygenâ€Anion Intercalation Pseudocapacitance. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	6
92	Compatibilizing effect of ethyleneâ€propyleneâ€diene grafted maleic anhydride terpolymer on the blend of polyamide 66 and thermal liquid crystalline polymer. <i>Polymer Composites</i> , 2006, 27, 608-613.	2.3	4
93	Preparation of Poly(sodiumâ€styrene sulfonate) Functionalized Graphene/Manganese Dioxide Composites for Supercapacitor Application with Superior Cycling Stability. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 1351-1356.	0.8	4
94	Synthesis and characterization of CoCuMnOx spinel ceramic thin films for spectral selectivity absorption. <i>RSC Advances</i> , 2016, 6, 87584-87592.	1.7	3
95	â€Particleâ€onâ€planeâ€hybrid of ZnO â€reduced graphene oxide: Roles on mechanical and tribological performances of thermosetting polyimide. <i>Polymer Engineering and Science</i> , 2022, 62, 2312-2321.	1.5	3
96	Crystallization Behavior of Thermotropic Liquid Crystalline Polymer Reinforced Polyamide 66 in Situ Composites. <i>Polymers and Polymer Composites</i> , 2014, 22, 241-246.	1.0	2
97	Effects of Ar/H/Nâ€ion bombardment on the surface free energy and friction behavior of the fullereneâ€like hydrogenated carbon (FLâ€C:H) film. <i>Surface and Interface Analysis</i> , 2008, 40, 1475-1480.	0.8	1
98	Esterification of Octanoic Acid with Octanol in Microemulsion and Emulsion System. <i>Journal of Dispersion Science and Technology</i> , 2008, 29, 880-884.	1.3	1
99	Structure and Micromorphology of Wear Debris of MC Nylon 6 under Dry Sliding: Correlation with Wear Mechanisms. <i>Tribology Transactions</i> , 2009, 52, 793-799.	1.1	1