Jianxin Geng

List of Publications by Year
in descending order

91 papers	5,356 citations	87888 38 h-index	82547 72 g-index
92 all docs	92 docs citations	92 times ranked	8608 citing authors

#	Article	IF	Citations
1	Three-dimensional porous carbon composites containing high sulfur nanoparticle content for high-performance lithiumâ€“sulfur batteries. Nature Communications, 2016, 7, 10601.	12.8	637
2	Layer-by-layer assembly of graphene and gold nanoparticles by vacuum filtration and spontaneous reduction of gold ions. Chemical Communications, 2009, , 2174.	4.1	393
3	Porphyrin Functionalized Graphene Sheets in Aqueous Suspensions: From the Preparation of Graphene Sheets to Highly Conductive Graphene Films. Journal of Physical Chemistry C, 2010, 114, 8227-8234.	3.1	309
4	Influence of Single-Walled Carbon Nanotubes Induced Crystallinity Enhancement and Morphology Change on Polymer Photovoltaic Devices. Journal of the American Chemical Society, 2006, 128, 16827-16833.	13.7	226
5	Graphite oxide: a selective and highly efficient oxidant of thiols and sulfides. Organic and Biomolecular Chemistry, 2011, 9, 7292.	2.8	224
6	Scalable preparation of three-dimensional porous structures of reduced graphene oxide/cellulose composites and their application in supercapacitors. Carbon, 2013, 62, 501-509.	10.3	202
7	Fluorine-Doped SnO₂@Graphene Porous Composite for High Capacity Lithium-Ion Batteries. Chemistry of Materials, 2015, 27, 4594-4603.	6.7	175
8	Preparation of graphene relying on porphyrin exfoliation of graphite. Chemical Communications, 2010, 46, 5091.	4.1	154
9	Selective surface functionalization at regions of high local curvature in graphene. Chemical Communications, 2013, 49, 677-679.	4.1	135
10	Enhanced Solarâ€Cell Efficiency in Bulkâ€Heterojunction Polymer Systems Obtained by Nanoimprinting with Commercially Available AAO Membrane Filters. Small, 2009, 5, 2139-2143.	10.0	118
11	Synthesis of graphene/Niâ€“Al layered double hydroxide nanowires and their application as an electrode material for supercapacitors. Journal of Materials Chemistry A, 2014, 2, 5060.	10.3	114
12	A Simple Approach for Preparing Transparent Conductive Graphene Films Using the Controlled Chemical Reduction of Exfoliated Graphene Oxide in an Aqueous Suspension. Journal of Physical Chemistry C, 2010, 114, 14433-14440.	3.1	109
13	Effect of SWNT Defects on the Electron Transfer Properties in P3HT/SWNT Hybrid Materials. Advanced Functional Materials, 2008, 18, 2659-2665.	14.9	102
14	The enhanced photothermal effect of graphene/conjugated polymer composites: photoinduced energy transfer and applications in photocontrolled switches. Chemical Communications, 2014, 50, 14345-14348.	4.1	93
15	Effect of Cation Size on Solid Polymer Electrolyte Based Dye-Sensitized Solar Cells. Langmuir, 2009, 25, 3276-3281.	3.5	92
16	Cellulose Tailored Anatase TiO₂ Nanospindles in Three-Dimensional Graphene Composites for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 12165-12175.	8.0	91
17	Enhanced Photothermal Bactericidal Activity of the Reduced Graphene Oxide Modified by Cationic Water-Soluble Conjugated Polymer. ACS Applied Materials & Interfaces, 2017, 9, 5382-5391.	8.0	81
18	Preparation of nanocrystalline NiZnCu ferrite particles by solâ€“gel method and their magnetic properties. Journal of Magnetism and Magnetic Materials, 2004, 277, 84-89.	2.3	70

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19	Deposition SnO₂/Nitrogen-Doped Graphene Nanocomposites on the Separator: A New Type of Flexible Electrode for Energy Storage Devices. ACS Applied Materials & Interfaces, 2013, 5, 12148-12155.	8.0	66
20	Graphene Oxide: A Versatile Agent for Polyimide Foams with Improved Foaming Capability and Enhanced Flexibility. Chemistry of Materials, 2015, 27, 4358-4367.	6.7	66
21	Lightweight and Ultrastrong Polymer Foams with Unusually Superior Flame Retardancy. ACS Applied Materials & Interfaces, 2017, 9, 26392-26399.	8.0	66
22	Graphene Wrapped TiO₂ Based Catalysts with Enhanced Photocatalytic Activity. Advanced Materials Interfaces, 2014, 1, 1300150.	3.7	65
23	Recent Advances in Polymer-Based Photothermal Materials for Biological Applications. ACS Applied Polymer Materials, 2020, 2, 4273-4288.	4.4	65
24	Kinetic Enhancement of Sulfur Cathodes by Nâ€Doped Porous Graphitic Carbon with Bound VN Nanocrystals. Small, 2020, 16, e2004950.	10.0	64
25	Tunable Functionalization of Graphene Oxide Sheets through Surface-Initiated Cationic Polymerization. Macromolecules, 2015, 48, 994-1001.	4.8	60
26	Conjunction of Conducting Polymer Nanostructures with Macroporous Structured Graphene Thin Films for High-Performance Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 11711-11719.	8.0	57
27	Tandem chemical modification/mechanical exfoliation of graphite: Scalable synthesis of high-quality, surface-functionalized graphene. Carbon, 2019, 145, 668-676.	10.3	57
28	The preparation and functional applications of carbon nanomaterial/conjugated polymer composites. Composites Communications, 2019, 12, 64-73.	6.3	55
29	Tuning the Surface Properties of Graphene Oxide by Surface-Initiated Polymerization of Epoxides: An Efficient Method for Enhancing Gas Separation. ACS Applied Materials & Interfaces, 2017, 9, 4998-5005.	8.0	53
30	Synthesis of a Macroporous Conjugated Polymer Framework: Iron Doping for Highly Stable, Highly Efficient Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 3087-3097.	8.0	52
31	Grafting P3HT brushes on GO sheets: distinctive properties of the GO/P3HT composites due to different grafting approaches. Journal of Materials Chemistry, 2012, 22, 21583.	6.7	51
32	A Conjugated Porous Polymer Complexed with a Single-Atom Cobalt Catalyst as An Electrocatalytic Sulfur Host for Enhancing Cathode Reaction Kinetics. Energy Storage Materials, 2021, 41, 14-23.	18.0	51
33	Covalent Confinement of Sulfur Copolymers onto Graphene Sheets Affords Ultrastable Lithiumâ€“Sulfur Batteries with Fast Cathode Kinetics. ACS Applied Materials & Interfaces, 2019, 11, 13234-13243.	8.0	50
34	Multiple-bilayered RGOâ€“porphyrin films: from preparation to application in photoelectrochemical cells. Journal of Materials Chemistry, 2012, 22, 18879.	6.7	48
35	Templateâ€Free Preparation of Volvoxâ€like Cd_{<i>x</i>}Zn_{1âˆ’<i>x</i>}S Nanospheres with Cubic Phase for Efficient Photocatalytic Hydrogen Production. Chemistry - an Asian Journal, 2014, 9, 811-818.	3.3	47
36	Scalable and facile preparation of graphene aerogel for air purification. RSC Advances, 2014, 4, 4843.	3.6	47

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37	Synthesis of SWNT Rings by Noncovalent Hybridization of Porphyrins and Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 12264-12271.	3.1	46
38	A dual-fluorescent composite of graphene oxide and poly(3-hexylthiophene) enables the ratiometric detection of amines. Chemical Science, 2014, 5, 3130.	7.4	42
39	Graphene Oxide Facilitates Solventâ€Free Synthesis of Wellâ€Dispersed, Faceted Zeolite Crystals. Angewandte Chemie - International Edition, 2017, 56, 14090-14095.	13.8	41
40	Singleâ€Atom Catalyst Aggregates: Sizeâ€Matching is Critical to Electrocatalytic Performance in Sulfur Cathodes. Advanced Science, 2022, 9, e2103773.	11.2	40
41	Composite Films of Poly(3-hexylthiophene) Grafted Single-Walled Carbon Nanotubes for Electrochemical Detection of Metal Ions. ACS Applied Materials & Interfaces, 2014, 6, 7686-7694.	8.0	39
42	Ice-Templated Large-Scale Preparation of Two-Dimensional Sheets of Conjugated Polymers: Thickness-Independent Flexible Supercapacitance. ACS Nano, 2021, 15, 8870-8882.	14.6	39
43	Enhanced photoresponse of large-sized photoactive graphene composite films based on water-soluble conjugated polymers. Chemical Communications, 2013, 49, 5538.	4.1	37
44	An environment-friendly microemulsion approach to Î±-FeOOH nanorods at room temperature. Materials Research Bulletin, 2006, 41, 2238-2243.	5.2	36
45	A simple and low-temperature hydrothermal route for the synthesis of tubular Î±-FeOOH. Materials Letters, 2007, 61, 4794-4796.	2.6	36
46	Controlled Growth of Well-Defined Conjugated Polymers from the Surfaces of Multiwalled Carbon Nanotubes: Photoresponse Enhancement via Charge Separation. ACS Nano, 2016, 10, 5189-5198.	14.6	34
47	Aluminumâ^'lithium alloy as a stable and reversible anode for lithium batteries. Electrochimica Acta, 2021, 368, 137626.	5.2	33
48	Coreâ€"Shell Structured Polyamide 66 Nanofibers with Enhanced Flame Retardancy. ACS Omega, 2017, 2, 2665-2671.	3.5	31
49	Sulfur covalently bonded to porous graphitic carbon as an anode material for lithium-ion capacitors with high energy storage performance. Journal of Materials Chemistry A, 2020, 8, 62-68.	10.3	31
50	Rational design of sulfur-containing composites for high-performance lithiumâ€"sulfur batteries. APL Materials, 2019, 7, .	5.1	30
51	Crystal structure and morphology of phenyl-capped tetraaniline in the leucoemeraldine oxidation state. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 764-769.	2.1	28
52	Enhanced Electrical Conductivities of Transparent Double-Walled Carbon Nanotube Network Films by Post-treatment. Journal of Physical Chemistry C, 2009, 113, 13658-13663.	3.1	28
53	Enhanced electrochemical response for mercury ion detection based on poly(3-hexylthiophene) hybridized with multi-walled carbon nanotubes. RSC Advances, 2014, 4, 25051.	3.6	27
54	High-performance solution-based CdS-conjugated hybrid polymer solar cells. RSC Advances, 2018, 8, 18051-18058.	3.6	26

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55	Controllable Fabrication of Transparent Macroporous Graphene Thin Films and Versatile Applications as a Conducting Platform. Advanced Functional Materials, 2015, 25, 4334-4343.	14.9	25
56	Covalently grafting conjugated porous polymers to MXene offers a two-dimensional sandwich-structured electrocatalytic sulfur host for lithiumâ€"sulfur batteries. Chemical Engineering Journal, 2022, 446, 137365.	12.7	25
57	Coaxially grafting conjugated microporous polymers containing single-atom cobalt catalysts to carbon nanotubes enhances sulfur cathode reaction kinetics. Chemical Engineering Journal, 2022, 444, 136546.	12.7	24
58	Shear induced molecular alignments of a side-chain liquid crystalline polyacetylene containing biphenyl mesogens. Polymer, 2003, 44, 8095-8102.	3.8	23
59	Covalent bonding of sulfur nanoparticles to unzipped multiwalled carbon nanotubes for high-performance lithiumâ€"sulfur batteries. Nanotechnology, 2019, 30, 024001.	2.6	22
60	Tuning the morphologies of fluorine-doped tin oxides in the three-dimensional architecture of graphene for high-performance lithium-ion batteries. Nanotechnology, 2017, 28, 395404.	2.6	20
61	A study of NiZnCu-ferrite/SiO2 nanocomposites with different ferrite contents synthesized by solâ€"gel method. Journal of Magnetism and Magnetic Materials, 2005, 292, 304-309.	2.3	18
62	Graphene Oxide Facilitates Solventâ€Free Synthesis of Wellâ€Dispersed, Faceted Zeolite Crystals. Angewandte Chemie, 2017, 129, 14278-14283.	2.0	18
63	Surface reconstruction establishing Mott-Schottky heterojunction and built-in space-charging effect accelerating oxygen evolution reaction. Nano Research, 2022, 15, 2952-2960.	10.4	15
64	Electric-field-induced molecular alignment of side-chain liquid-crystalline polyacetylenes containing biphenyl mesogens. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 1333-1341.	2.1	14
65	Regulating Lithium Plating and Stripping by Using Vertically Aligned Graphene/CNT Channels Decorated with ZnO Particles. Chemistry - A European Journal, 2021, 27, 15706-15715.	3.3	13
66	Covalently Grafting Sulfur-Containing Polymers to Carbon Nanotubes Enhances the Electrochemical Performance of Sulfur Cathodes. ACS Applied Polymer Materials, 2022, 4, 939-949.	4.4	13
67	Preparation of Ni0.65Zn0.35Cu0.1Fe1.9O4/SiO2 nanocomposites by solâ€"gel method. Journal of Crystal Growth, 2004, 262, 415-419.	1.5	12
68	Enhanced field emission of an electric field assisted single-walled carbon nanotube assembly in colloid interstices. Carbon, 2009, 47, 1555-1560.	10.3	12
69	Humidity Effects on the Wetting Characteristics of Poly(<i>N</i>-isopropylacrylamide) during a Lower Critical Solution Transition. Langmuir, 2013, 29, 8116-8124.	3.5	12
70	HIGH ORDER LIQUID CRYSTALLINE STRUCTURE OF POLY(11-{[(4â€²-HEPTYLOXY-4-BIPHENYLYL)CARBONYL]OXY}-1-UNDECYNE). Molecular Crystals and Liquid Crystals, 2003, 399, 17-28.	0.9	11
71	Towards efficient and cost-effective inverted hybrid organic solar cells using inorganic semiconductor in the active layer. Applied Nanoscience (Switzerland), 2017, 7, 747-752.	3.1	11
72	Synergetic deoxy reforming of cellulose and fatty acid esters for liquid hydrocarbon-rich oils. Bioresource Technology, 2015, 196, 217-224.	9.6	10

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73	Encoding Enantiomeric Molecular Chiralities on Graphene Basal Planes. Angewandte Chemie - International Edition, 2022, 61, .	13.8	10
74	Unveiling the Origin of Catalytic Sites of Pt Nanoparticles Decorated on Oxygen-Deficient Vanadium-Doped Cobalt Hydroxide Nanosheet for Hybrid Sodiumâ€"Air Batteries. ACS Applied Energy Materials, 2020, 3, 7464-7473.	5.1	9
75	Carbonâ€Based Materials as Lithium Hosts for Lithium Batteries. Chemistry - A European Journal, 2022, 28, .	3.3	9
76	Zeolitic Imidazolate Framework-Derived Co-Fe@NC for Rechargeable Hybrid Sodiumâ€"Air Battery with a Low Voltage Gap and Long Cycle Life. ACS Applied Energy Materials, 2022, 5, 1662-1671.	5.1	8
77	Effect of the Exposure Time of Hydrazine Vapor on the Reduction of Graphene Oxide Films. Journal of Nanoscience and Nanotechnology, 2011, 11, 5959-5964.	0.9	7
78	Phase Transition and Transition Kinetics of a Thermotropic Poly(amideâˆ'imide) Derived from 70 Pyromellitic Dianhydride, 30 Terephthaloyl Chloride, and 1,3-Bis[4-(4â€˜-aminophenoxy)cumyl]benzene. Macromolecules, 2001, 34, 8710-8719.	4.8	6
79	Crystal Structure of 11-{[(4â€²-Heptoxy-4-Biphenylyl) Carbonyl] Oxy}-1-Undecyne. Molecular Crystals and Liquid Crystals, 2002, 383, 115-130.	0.9	5
80	Structure and liquid crystalline properties of 5-[(4â€²-heptoxy-4-biphenylyl)carbonyloxy]-1-pentyne. Liquid Crystals, 2004, 31, 71-79.	2.2	5
81	State-of-the-Art Applications of 2D Nanomaterials in Energy Storage. ACS Symposium Series, 2020, , 253-293.	0.5	5
82	Agarose-Based Hierarchical Porous Carbons Prepared with Gas-Generating Activators and Used in High-Power Density Supercapacitors. Energy & Fuels, 2021, 35, 19775-19783.	5.1	5
83	Fabrication of polythiophene patterns through blending of a thermally curable polythiophene with poly(methyl methacrylate) and selective thermal curation. Chinese Journal of Polymer Science (English Edition), 2017, 35, 422-433.	3.8	4
84	Liquid crystal properties of a mesogenic polyacetylene, poly(11-[(4â€²-heptoxy-4-biphenylyl)carbonyloxy]-1-undecyne). Liquid Crystals, 2004, 31, 271-277.	2.2	3
85	Phase structure and transition behavior of a liquid crystal 5-{[(4â€²-heptoxy-4-biphenylyl)oxy]carbonyl}-1-pentyne. Journal of Molecular Liquids, 2006, 124, 96-101.	4.9	3
86	Phase transition behavior and structure of the thermotropic liquid crystal 6-{[(4â€²-{[(undecyl)carbonyl]oxy}biphenyl-4yl)carbonyl]oxy}-1-hexyne. Crystal Research and Technology, 2006, 41, 914-918.	1.3	3
87	Macroporous Graphene Thin Films as Electrochemical Electrodes: Enhancing the Sensitivity for Detection of Metal Ions. Journal of Nanoscience and Nanotechnology, 2018, 18, 4100-4105.	0.9	3
88	Preparation of fractal-like structures of insoluble polythiophene via solvent vapor annealing of solid thermocleavable polythiophene films and subsequent thermal curing. Polymer Journal, 2013, 45, 813-818.	2.7	2
89	Electrocatalysis: Kinetic Enhancement of Sulfur Cathodes by Nâ€Doped Porous Graphitic Carbon with Bound VN Nanocrystals (Small 48/2020). Small, 2020, 16, 2070261.	10.0	2
90	Fabrication of well-aligned SWNT arrays using colloidal self-assembly. , 2008, , .		0

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91	Encoding Enantiomeric Molecular Chiralities on Graphene Basal Planes. Angewandte Chemie, 0, , .	2.0	0