

# Gengchao Wang

## List of Publications by Year in descending order

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76  
papers

3,316  
citations

172457

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149698

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76  
docs citations

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times ranked

4858  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano storage-boxes constructed by the vertical growth of MoS <sub>2</sub> on graphene for high-performance Li-S batteries. <i>Journal of Energy Chemistry</i> , 2022, 66, 91-99.	12.9	37
2	High-Performance-Integrated Stretchable Supercapacitors Based on a Polyurethane Organo/Hydrogel Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 622-632.	8.0	19
3	Integrated Interlocking Architecture improving cycle stability of supercapacitors based on Self-Supporting electrodes. <i>Chemical Engineering Journal</i> , 2022, 450, 137918.	12.7	4
4	Simultaneous Improvement of the Mechanical and Flame-Retardant Properties of a Composite Elastomer by a Biomimetic Modified Multilayer Graphene. <i>Journal of Macromolecular Science - Physics</i> , 2021, 60, 708-726.	1.0	0
5	Fully integrated design of intrinsically stretchable electrodes for stretchable supercapacitors. <i>Energy Storage Materials</i> , 2021, 39, 130-138.	18.0	19
6	Dual Li-ion migration channels in an ester-rich copolymer/ionic liquid quasi-solid-state electrolyte for high-performance Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2459-2469.	10.3	18
7	Electrophoresis-microwave synthesis of S,N-doped graphene foam for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15766-15775.	10.3	10
8	Rearrangement of Ion Transport Path on Nano-Cross-linker for All-Solid-State Electrolyte with High Room Temperature Ionic Conductivity. <i>ACS Nano</i> , 2021, 15, 20489-20503.	14.6	31
9	A novel poly(vinyl carbonate-co-butyl acrylate) quasi-solid-state electrolyte as a strong catcher for lithium polysulfide in Li-S batteries. <i>Electrochimica Acta</i> , 2020, 332, 135463.	5.2	13
10	Elastic, Conductive Coating Layer for Self-Standing Sulfur Cathode Achieving Long Lifespan Li-S Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1904026.	19.5	12
11	Improving Resistance-Temperature Characteristic of Polyethylene/Carbon Black Composites by Poly(3,4-Ethylenedioxythiophene)-Functionalized Multilayer Graphene. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000144.	2.2	6
12	A high-resilience and conductive composite binder for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2020, 389, 124404.	12.7	43
13	Fabrication of porous lithium titanate self-supporting anode for high performance lithium-ion capacitor. <i>Journal of Energy Chemistry</i> , 2020, 50, 344-350.	12.9	40
14	Rational design of modified fluororubber-based quasi-solid-state electrolyte for flexible supercapacitors with enhanced performance. <i>Chemical Engineering Journal</i> , 2019, 378, 122244.	12.7	13
15	Unique holey graphene/carbon dots frameworks by microwave-initiated chain reduction for high-performance compressible supercapacitors and reusable oil/water separation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22054-22062.	10.3	27
16	Poly(ionic liquid)-Based Quasi-Solid-State Copolymer Electrolytes for Dynamic-Reversible Adsorption of Lithium Polysulfides in Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 38136-38146.	8.0	27
17	Long-life flexible supercapacitors based on nitrogen-doped porous graphene-conjugated polymer film electrodes and porous quasi-solid-state polymer electrolyte. <i>Electrochimica Acta</i> , 2019, 317, 250-260.	5.2	24
18	High-performance stretchable supercapacitors based on intrinsically stretchable acrylate rubber/MWCNTs@conductive polymer composite electrodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4432-4442.	10.3	82

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19	Improving the dielectric performance of poly(vinylidene fluoride)/polyaniline nanorod composites by stretch-induced crystal transition. <i>Polymer International</i> , 2018, 67, 1103-1111.	3.1	4
20	High-performance lithium-sulfur batteries based on self-supporting graphene/carbon nanotube foam@sulfur composite cathode and quasi-solid-state polymer electrolyte. <i>Chemical Engineering Journal</i> , 2018, 332, 8-15.	12.7	39
21	Polyaniline/reduced graphene oxide hydrogel film with attached graphite current collector for flexible supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 3025-3034.	2.2	17
22	Distinct Photovoltaic Performance of Hierarchical Nanostructures Self-Assembled from Multiblock Copolymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22552-22561.	8.0	9
23	Green Preparation of Expandable Graphite and Its Application in Flame-Resistance Polymer Elastomer. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 5253-5261.	3.7	40
24	High energy-density organic supercapacitors based on optimum matching between GNS/aMWCNT@polyaniline nanocone arrays cathode and GNS/aMWCNT@poly(1,5-diaminoanthraquinone) nanoparticles anode. <i>Chemical Engineering Journal</i> , 2017, 326, 9-16.	12.7	29
25	Enhanced dielectric properties of polymer composite films induced by encapsulated MWCNTs with a one core&two shell structure. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 948-956.	2.1	11
26	Activated hierarchical porous carbon@P-conjugated polymer composite as cathode for high-performance lithium storage. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2169-2177.	2.5	7
27	A self-healable and easily recyclable supramolecular hydrogel electrolyte for flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8769-8776.	10.3	238
28	Alkali-Resistant Quasi-Solid-State Electrolyte for Stretchable Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27701-27709.	8.0	17
29	Stretchable fluoroelastomer quasi-solid-state organic electrolyte for high-performance asymmetric flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14839-14848.	10.3	29
30	Synthesis and performance of cross-linked PEDOT:MOI-P(SS-HEA) transparent conductive films by UV irradiation. <i>RSC Advances</i> , 2016, 6, 29592-29597.	3.6	2
31	Self-Assembly of Polyethylene Glycol-Grafted Carbon Nanotube/Sulfur Composite with Nest-like Structure for High-Performance Lithium&Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 6061-6071.	8.0	42
32	Improving the dielectric properties of poly(vinylidene fluoride) composites by using poly(vinyl) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 222	9.5	92
33	A graphene/carbon nanotube@P-conjugated polymer nanocomposite for high-performance organic supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3880-3890.	10.3	58
34	The perfect matching between the low-cost Fe<sub>2</sub>O<sub>3</sub> nanowire anode and the NiO nanoflake cathode significantly enhances the energy density of asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6662-6670.	10.3	132
35	A Novel Flexible Supercapacitor Based on Cross-Linked PVDF-HFP Porous Organogel Electrolyte and Carbon Nanotube Paper@P-Conjugated Polymer Film Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2067-2076.	6.7	47
36	Promising graphene/carbon nanotube foam@P-conjugated polymer self-supporting composite cathodes for high-performance rechargeable lithium batteries. <i>Carbon</i> , 2015, 94, 864-871.	10.3	37

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37	Enhancing the Energy Density of Asymmetric Stretchable Supercapacitor Based on Wrinkled CNT@MnO <sub>2</sub> Cathode and CNT@polypyrrole Anode. ACS Applied Materials & Interfaces, 2015, 7, 15303-15313.	8.0	137
38	A facile prestrain-stick-release assembly of stretchable supercapacitors based on highly stretchable and sticky hydrogel electrolyte. Journal of Power Sources, 2015, 284, 400-408.	7.8	96
39	A post-oxidation strategy for the synthesis of graphene/carbon nanotube-supported polyaniline nanocomposites as advanced supercapacitor electrodes. RSC Advances, 2015, 5, 24599-24606.	3.6	12
40	Synthesis and electrochemical capacitance performance of polyaniline doped with lignosulfonate. RSC Advances, 2015, 5, 76116-76121.	3.6	25
41	A novel asymmetric supercapacitors based on binder-free carbon fiber paper@ nickel cobaltite nanowires and graphene foam electrodes. Journal of Power Sources, 2015, 273, 654-662.	7.8	62
42	Synthesis, curing behavior and thermal properties of silicon-containing hybrid polymers with Si <sup>+</sup> Ca <sup>+</sup> C units. Polymer International, 2014, 63, 1531-1536.	3.1	14
43	Irradiation preparation of reduced graphene oxide/carbon nanotube composites for high-performance supercapacitors. Journal of Power Sources, 2014, 245, 436-444.	7.8	66
44	Preparation and supercapacitance performance of manganese oxide nanosheets/graphene/carbon nanotubes ternary composite film. Electrochimica Acta, 2014, 125, 488-496.	5.2	27
45	All-solid-state asymmetric supercapacitor based on reduced graphene oxide/carbon nanotube and carbon fiber paper/polypyrrole electrodes. Journal of Materials Chemistry A, 2014, 2, 1458-1464.	10.3	220
46	Rational synthesis of novel $\pi$ -conjugated poly(1,5-diaminoanthraquinone) for high-performance supercapacitors. RSC Advances, 2014, 4, 7774-7779.	3.6	34
47	Improving thermal conductivity and decreasing supercooling of paraffin phase change materials by n-octadecylamine-functionalized multi-walled carbon nanotubes. RSC Advances, 2014, 4, 36584-36590.	3.6	81
48	Improving the performance of PEDOT-PSS coated sulfur@activated porous graphene composite cathodes for lithium-sulfur batteries. Journal of Materials Chemistry A, 2014, 2, 18345-18352.	10.3	81
49	Synthesis and electrochemical performances of a novel two-dimensional nanocomposite: polyaniline-coated laponite nanosheets. Journal of Materials Science, 2014, 49, 6830-6837.	3.7	14
50	High-Performance Asymmetric Supercapacitor Based on Nanoarchitected Polyaniline/Graphene/Carbon Nanotube and Activated Graphene Electrodes. ACS Applied Materials & Interfaces, 2013, 5, 8467-8476.	8.0	243
51	Synthesis of hierarchical sulfonated graphene/MnO <sub>2</sub> /polyaniline ternary composite and its improved electrochemical performance. Journal of Power Sources, 2013, 241, 231-238.	7.8	118
52	Hierarchical composites of sulfonated graphene-supported vertically aligned polyaniline nanorods for high-performance supercapacitors. Journal of Power Sources, 2012, 215, 36-42.	7.8	101
53	Synthesis, cure and pyrolysis behavior of heat-resistant boron-silicon hybrid polymer containing acetylene. Journal of Applied Polymer Science, 2012, 126, 1322-1327.	2.6	4
54	Synthesis and characterization of a poly(aniline-based disulfide)/diisocyanate-modified graphite oxide hybrid by a grafting technique. European Polymer Journal, 2011, 47, 1630-1635.	5.4	8

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55	Poly(2,5-dimercapto-1,3,4-thiadiazole)/sulfonated graphene composite as cathode material for rechargeable lithium batteries. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 377-382.	2.9	28
56	Fabrication and electrochemical characterization of polyaniline nanorods modified with sulfonated carbon nanotubes for supercapacitor applications. <i>Electrochimica Acta</i> , 2011, 56, 1366-1372.	5.2	125
57	Electrical and electrochemical properties of poly(2,5-dimercapto-1,3,4-thiadiazole)-polyaniline adduct intercalated graphite oxide composites. <i>Materials Chemistry and Physics</i> , 2010, 122, 224-229.	4.0	14
58	Synthesis and characterization of polypyrrole/graphite oxide composite by <i>in situ</i> emulsion polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1329-1335.	2.1	89
59	A novel electrode material based on a highly homogeneous polyaniline/titanium oxide hybrid for high-rate electrochemical capacitors. <i>Journal of Materials Chemistry</i> , 2010, 20, 10598.	6.7	46
60	Aniline-Based Disulfide/Aniline Copolymers as a High Energy Storage Material. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 2118-2124.	2.2	11
61	Anticorrosive properties of epoxy resin coatings cured by aniline/phenylenediamine copolymer. <i>Journal of Applied Polymer Science</i> , 2009, 112, 1988-1993.	2.6	15
62	Synthesis and characterization of electrically conductive and fluorescent poly(N-[5-(8-hydroxyquinoline)methyl]aniline)/V <sub>2</sub> O <sub>5</sub> xerogel hybrids. <i>Synthetic Metals</i> , 2009, 159, 366-371.	3.9	8
63	Effects of synthetic conditions on the structure and electrical properties of polyaniline nanofibers. <i>Journal of Materials Science</i> , 2008, 43, 197-202.	3.7	28
64	Melt-processed polyaniline nanofibers/LDPE/EAA conducting composites. <i>Polymer Composites</i> , 2008, 29, 1177-1182.	4.6	7
65	Water-dispersible conducting polyaniline/nano-SiO <sub>2</sub> composites without any stabilizer. <i>Journal of Applied Polymer Science</i> , 2008, 107, 403-408.	2.6	20
66	Poly(aniline-2-sulfonic acid) modified multiwalled carbon nanotubes with good aqueous dispersibility. <i>Journal of Colloid and Interface Science</i> , 2008, 317, 199-205.	9.4	17
67	Preparation of poly(aniline-co-o-anisidine)-intercalated mesostructured manganese oxide composites by exchange reaction. <i>Materials Research Bulletin</i> , 2008, 43, 2145-2152.	5.2	3
68	Poly(aniline-co-o-anisidine)/Sulfonated Carbon Nanotubes Composites Prepared by Surface Adsorption Method. <i>Journal of Macromolecular Science - Physics</i> , 2008, 47, 743-753.	1.0	6
69	Effect of Carbon Black Modified with Polyaniline on Resistivity Behavior of Polyethylene/Carbon Black Composites. <i>Journal of Macromolecular Science - Physics</i> , 2007, 47, 65-75.	1.0	14
70	Intercalation of conducting poly(N-propene sulfonic acid aniline) in V <sub>2</sub> O <sub>5</sub> xerogel. <i>Journal of Applied Polymer Science</i> , 2007, 103, 2569-2574.	2.6	10
71	Preparation and characterization of composites of polyaniline nanorods and multiwalled carbon nanotubes coated with polyaniline. <i>Journal of Applied Polymer Science</i> , 2007, 106, 4241-4247.	2.6	25
72	Synthesis of poly(aniline-co-o-anisidine)-intercalated graphite oxide composite by delamination/reassembling method. <i>Carbon</i> , 2005, 43, 2564-2570.	10.3	155

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73	Melt processable conducting poly(aniline-co-o-anisidine)/linear low-density polyethylene composites with ethylene-acrylic acid copolymer as compatibilizer. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1511-1516.	2.6	6
74	Synthesis and characterization of poly(o-anisidine)/V <sub>2</sub> O <sub>5</sub> and poly(o-anthranilic acid)/V <sub>2</sub> O <sub>5</sub> nanocomposites. <i>Polymer International</i> , 2005, 54, 1082-1087.	3.1	7
75	The influence of crystalline and aggregate structure on PTC characteristic of conductive polyethylene/carbon black composite. <i>European Polymer Journal</i> , 1998, 34, 1221-1227.	5.4	100
76	Stretchable Sodium-Ion Capacitors Based on Coaxial CNT Supported Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> with High Capacitance Contribution. <i>Nanoscale</i> , 0, , .	5.6	4