

Dong Shu

List of Publications by Year in descending order

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91
papers

3,869
citations

109137

35
h-index

143772

57
g-index

91
all docs

91
docs citations

91
times ranked

4936
citing authors

#	ARTICLE	IF	CITATIONS
1	Quinone Electrode Materials for Rechargeable Lithium/Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700278.	10.2	268
2	Recyclable CNTs/Fe ₃ O ₄ magnetic nanocomposites as adsorbents to remove bisphenol A from water and their regeneration. <i>Chemical Engineering Journal</i> , 2015, 260, 231-239.	6.6	177
3	Three-dimensional MnO ₂ porous hollow microspheres for enhanced activity as ozonation catalysts in degradation of bisphenol A. <i>Journal of Hazardous Materials</i> , 2017, 321, 162-172.	6.5	175
4	Study on the electrochemical behavior of vanadium nitride as a promising supercapacitor material. <i>Journal of Physics and Chemistry of Solids</i> , 2009, 70, 495-500.	1.9	142
5	Enhanced Performance and Conversion Pathway for Catalytic Ozonation of Methyl Mercaptan on Single-Atom Ag Deposited Three-Dimensional Ordered Mesoporous MnO ₂ . <i>Environmental Science & Technology</i> , 2018, 52, 13399-13409.	4.6	134
6	Three-dimensional graphene layers prepared by a gas-foaming method for supercapacitor applications. <i>Carbon</i> , 2015, 94, 879-887.	5.4	107
7	Three-dimensional nitrogen-doped graphene hydrogels prepared via hydrothermal synthesis as high-performance supercapacitor materials. <i>Electrochimica Acta</i> , 2016, 194, 136-142.	2.6	107
8	Enhanced photocatalytic disinfection of E. coli 8099 using Ag/BiOI composite under visible light irradiation. <i>Separation and Purification Technology</i> , 2012, 91, 59-66.	3.9	97
9	Enhanced adsorption and photocatalytic activity of BiOI@MWCNT composites towards organic pollutants in aqueous solution. <i>Journal of Hazardous Materials</i> , 2012, 229-230, 72-82.	6.5	90
10	Capacitive properties of PANI/MnO ₂ synthesized via simultaneous-oxidation route. <i>Journal of Alloys and Compounds</i> , 2012, 532, 1-9.	2.8	84
11	Preparation of nanocrystalline VN by the melamine reduction of V ₂ O ₅ xerogel and its supercapacitive behavior. <i>Materials Chemistry and Physics</i> , 2011, 131, 268-273.	2.0	77
12	Metal organic framework derived hollow NiS@C with S-vacancies to boost high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 419, 129643.	6.6	77
13	Effects of carbon additives on the performance of negative electrode of lead-carbon battery. <i>Electrochimica Acta</i> , 2015, 151, 89-98.	2.6	76
14	Highly Efficient Performance and Conversion Pathway of Photocatalytic CH ₃ SH Oxidation on Self-Stabilized Indirect Z-Scheme g-C ₃ N ₄ /I ³⁺ -BiOI. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18693-18708.	4.0	75
15	pH-dependent degradation of acid orange II by zero-valent iron in presence of oxygen. <i>Separation and Purification Technology</i> , 2013, 117, 59-68.	3.9	69
16	Visible-light-harvesting reduction of CO ₂ to chemical fuels with plasmonic Ag@AgBr/CNT nanocomposites. <i>Catalysis Today</i> , 2013, 216, 268-275.	2.2	65
17	Boosting the energy density of supercapacitors by designing both hollow NiO nanoparticles/nitrogen-doped carbon cathode and nitrogen-doped carbon anode from the same precursor. <i>Chemical Engineering Journal</i> , 2022, 431, 134083.	6.6	62
18	Face-to-face self-assembly graphene/MnO ₂ nanocomposites for supercapacitor applications using electrochemically exfoliated graphene. <i>Electrochimica Acta</i> , 2015, 167, 412-420.	2.6	59

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19	Carbohydrates-Derived Nitrogen-Doped Hierarchical Porous Carbon for Ultrasensitive Detection of 4-Nitrophenol. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 17391-17401.	3.2	55
20	Simultaneous photocatalytic elimination of gaseous NO and SO ₂ in a BiOI/Al ₂ O ₃ -padded trickling scrubber under visible light. <i>Chemical Engineering Journal</i> , 2015, 279, 929-938.	6.6	50
21	Supercapacitive behavior of electrostatic self-assembly reduced graphene oxide/CoAl-layered double hydroxides nanocomposites. <i>Journal of Alloys and Compounds</i> , 2016, 669, 146-155.	2.8	50
22	Graphene Quantum Dots Pinned on Nanosheets-Assembled NiCo-LDH Hollow Micro-Tunnels: Toward High-Performance Pouch-Type Supercapacitor via the Regulated Electron Localization. <i>Small</i> , 2022, 18, e2201286.	5.2	48
23	Supercapacitive behavior and high cycle stability of todorokite-type manganese oxide with large tunnels. <i>Journal of Power Sources</i> , 2012, 203, 233-242.	4.0	46
24	Photocatalytic activity of metal (Pt, Ag, and Cu)-deposited TiO ₂ photoelectrodes for degradation of organic pollutants in aqueous solution. <i>Desalination</i> , 2010, 253, 88-93.	4.0	45
25	Supermolecule Self-Assembly Promoted Porous N, P Co-Doped Reduced Graphene Oxide for High Energy Density Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 4084-4091.	2.5	45
26	Engineered photocatalytic fuel cell with oxygen vacancies-rich rGO/BiOI as photoanode and biomass-derived N-doped carbon as cathode: Promotion of reactive oxygen species production via Fe ²⁺ /Fe ³⁺ redox. <i>Chemical Engineering Journal</i> , 2020, 385, 123824.	6.6	43
27	Realizing a redox-robust Ag/MnO ₂ catalyst for efficient wet catalytic ozonation of S-VOCs: Promotional role of Ag(0)/Ag(I)-Mn based redox shuttle. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120881.	10.8	43
28	Hollow N-doped carbon @ O-vacancies NiCo ₂ O ₄ nanocages with a built-in electric field as high-performance cathodes for hybrid supercapacitor. <i>Electrochimica Acta</i> , 2020, 364, 137260.	2.6	42
29	BiOI-based photoactivated fuel cell using refractory organic compounds as substrates to generate electricity. <i>Catalysis Today</i> , 2014, 224, 13-20.	2.2	40
30	In-situ N/S Co-doping three-dimensional succulent-like hierarchical carbon assisted by supramolecular polymerization for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2019, 319, 410-422.	2.6	40
31	Multifunctional Au/Ti ₃ C ₂ Photothermal Membrane with Antibacterial Ability for Stable and Efficient Solar Water Purification under the Full Spectrum. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11372-11387.	3.2	40
32	Supramolecule-Inspired Fabrication of Carbon Nanoparticles In Situ Anchored Graphene Nanosheets Material for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26775-26782.	4.0	39
33	Three-dimensional hierarchical porous sludge-derived carbon supported on silicon carbide foams as effective and stable Fenton-like catalyst for odorous methyl mercaptan elimination. <i>Journal of Hazardous Materials</i> , 2018, 358, 136-144.	6.5	38
34	3D sandwiched nanosheet of MoS ₂ /C@RGO achieved by supramolecular self-assembly method as high performance material in supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019, 777, 1176-1183.	2.8	38
35	Combined adsorption and catalytic ozonation for removal of endocrine disrupting compounds over MWCNTs/Fe ₃ O ₄ composites. <i>Catalysis Today</i> , 2017, 297, 143-150.	2.2	37
36	Hollow NiCoP nanocubes derived from a Prussian blue analogue self-template for high-performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022, 893, 162344.	2.8	37

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37	The supercapacitive behavior and excellent cycle stability of graphene/MnO ₂ composite prepared by an electrostatic self-assembly process. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16151-16161.	3.8	36
38	Supermolecule polymerization derived porous nitrogen-doped reduced graphene oxide as a high-performance electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2018, 292, 20-30.	2.6	36
39	Soft-template synthesis of vanadium oxynitride-carbon nanomaterials for supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16139-16150.	3.8	35
40	Anchoring ultrafine Co ₃ O ₄ grains on reduced oxide graphene by dual-template nanocasting strategy for high-energy solid state supercapacitor. <i>Electrochimica Acta</i> , 2019, 326, 134965.	2.6	35
41	Heteroaromatic organic compound with conjugated multi-carbonyl as cathode material for rechargeable lithium batteries. <i>Scientific Reports</i> , 2016, 6, 23515.	1.6	34
42	Supramolecular-induced confining methylene blue in three-dimensional reduced graphene oxide for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2020, 475, 228554.	4.0	34
43	Electron-rich/poor reaction sites enable ultrafast confining Fenton-like processes in facet-engineered BiOI membranes for water purification. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120970.	10.8	34
44	MnO ₂ -introduced-tunnels strategy for the preparation of nanotunnel inserted hierarchical-porous carbon as electrode material for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2017, 320, 634-643.	6.6	33
45	3D MnO ₂ hollow microspheres ozone-catalysis coupled with flat-plate membrane filtration for continuous removal of organic pollutants: Efficient heterogeneous catalytic system and membrane fouling control. <i>Journal of Hazardous Materials</i> , 2018, 344, 1198-1208.	6.5	33
46	Mycelial pellet-derived heteroatom-doped carbon nanosheets with a three-dimensional hierarchical porous structure for efficient capacitive deionization. <i>Environmental Science: Nano</i> , 2019, 6, 1430-1442.	2.2	33
47	Chitosan-Confined Synthesis of N-Doped and Carbon-Coated Li ₄ Ti ₅ O ₁₂ Nanoparticles with Enhanced Lithium Storage for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1046-A1053.	1.3	32
48	High-performance water desalination of heteroatom nitrogen- and sulfur-codoped open hollow tubular porous carbon electrodes via capacitive deionization. <i>Environmental Science: Nano</i> , 2019, 6, 3359-3373.	2.2	31
49	Promoting high-energy supercapacitor performance over NiCoP/N-doped carbon hybrid hollow nanocages via rational architectural and electronic modulation. <i>Applied Surface Science</i> , 2021, 569, 151098.	3.1	31
50	Synthesis of three dimensional N&S co-doped rGO foam with high capacity and long cycling stability for supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 57-65.	5.0	29
51	One-step synthesis of silicon carbide foams supported hierarchical porous sludge-derived activated carbon as efficient odor gas adsorbent. <i>Journal of Hazardous Materials</i> , 2018, 344, 33-41.	6.5	28
52	Microstructure and supercapacitive properties of buserite-type manganese oxide with a large basal spacing. <i>Journal of Power Sources</i> , 2012, 216, 425-433.	4.0	27
53	Preparation of 3D Reduced Graphene Oxide/MnO ₂ Nanocomposites through a Vacuum Impregnation Method and Their Electrochemical Capacitive Behavior. <i>ChemElectroChem</i> , 2017, 4, 1088-1094.	1.7	27
54	Immobilization of facet-engineered Ag ₃ PO ₄ on mesoporous Al ₂ O ₃ for efficient industrial waste gas purification with indoor LED illumination. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117811.	10.8	27

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55	Molecular self-assembly assisted synthesis of carbon nanoparticle-anchored MoS ₂ nanosheets for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2019, 295, 187-194.	2.6	27
56	Efficient catalytic activity and bromate minimization over lattice oxygen-rich MnOOH nanorods in catalytic ozonation of bromide-containing organic pollutants: Lattice oxygen-directed redox cycle and bromate reduction. <i>Journal of Hazardous Materials</i> , 2021, 410, 124545.	6.5	27
57	Immobilization of self-stabilized plasmonic Ag-AgI on mesoporous Al ₂ O ₃ for efficient purification of industrial waste gas with indoor LED illumination. <i>Applied Catalysis B: Environmental</i> , 2016, 185, 295-306.	10.8	26
58	Preparation of carbon dots decorated graphene/polyaniline composites by supramolecular in-situ self-assembly for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2019, 297, 1094-1103.	2.6	26
59	Preparation of Lithium Titanate/Reduced Graphene Oxide Composites with Three-Dimensional "Fishnet-Like" Conductive Structure via a Gas-Foaming Method for High-Rate Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42883-42892.	4.0	25
60	Molecular cooking: Amino acids trap silicon in carbon matrix to boost lithium-ion storage. <i>Energy Storage Materials</i> , 2022, 46, 344-351.	9.5	25
61	Bio-templated fabrication of three-dimensional network activated carbons derived from mycelium pellets for supercapacitor applications. <i>Scientific Reports</i> , 2018, 8, 562.	1.6	24
62	Elimination of methyl mercaptan in ZVI-S ₂ O ₈ ²⁻ system activated with in-situ generated ferrous ions from zero valent iron. <i>Catalysis Today</i> , 2017, 281, 520-526.	2.2	23
63	In Situ Supramolecular Self-Assembly Assisted Synthesis of Li ₄ Ti ₅ O ₁₂ @Carbon-Reduced Graphene Oxide Microspheres for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 916-924.	3.2	23
64	Metal organic frameworks derived Ni-doped hierarchical Ni _x Co _{1-x} S@C bundled-like nanostructures for enhanced supercapacitors. <i>Electrochimica Acta</i> , 2022, 406, 139872.	2.6	23
65	Preparation of Single-Atom Ag-Decorated MnO ₂ Hollow Microspheres by Redox Etching Method for High-Performance Solid-State Asymmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 10192-10201.	2.5	22
66	Urchin-like NiCo ₂ O ₄ hollow microspheres with oxygen vacancies synthesized by self-template for supercapacitor. <i>New Journal of Chemistry</i> , 2021, 45, 22748-22757.	1.4	22
67	Capacitive performance of a heteroatom-enriched activated carbon in concentrated sulfuric acid. <i>Journal of Power Sources</i> , 2013, 239, 553-560.	4.0	20
68	In-situ fabrication of AgI-BiOI nanoflake arrays film photoelectrode for efficient wastewater treatment, electricity production and enhanced recovery of copper in photocatalytic fuel cell. <i>Catalysis Today</i> , 2020, 339, 379-390.	2.2	20
69	Enhanced structural and electrochemical stability of LiNi _{0.83} Co _{0.11} Mn _{0.06} O ₂ cathodes by zirconium and aluminum co-doping for lithium-ion battery. <i>Journal of Power Sources</i> , 2021, 498, 229857.	4.0	19
70	Fabrication and supercapacitive behavior of tetramethylammonium ion-intercalated MnO ₂ prepared by an exfoliation and self-assembly process. <i>Journal of Alloys and Compounds</i> , 2013, 569, 136-143.	2.8	18
71	Interfacial electrostatic self-assembly in water-in-oil microemulsion assisted synthesis of Li ₄ Ti ₅ O ₁₂ /Graphene for lithium-ion-batteries. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153018.	2.8	18
72	Design of few-layered 1T-MoS ₂ by supramolecular-assisted assembly with N-doped carbon quantum dots for supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2022, 908, 116093.	1.9	17

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73	Surface modification of micro-sized CuO by in situ-growing heterojunctions CuO/Cu ₂ O and CuO/Cu ₂ O/Cu: effect on surface charges and photogenerated carrier lifetime. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	16
74	Preferential catalytic ozonation of p-nitrophenol by molecularly imprinted Fe ₃ O ₄ /SiO ₂ core-shell magnetic composites. <i>Water Science and Technology</i> , 2014, 69, 170-176.	1.2	15
75	Preparation of three-dimensional nitrogen-doped graphene layers by gas foaming method and its electrochemical capacitive behavior. <i>Electrochimica Acta</i> , 2016, 193, 293-301.	2.6	15
76	Defect-Engineered 3D Cross-Network Co ₃ O ₄ @N Nanostructure for High-Performance Solid-State Asymmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021, 4, 888-898.	2.5	15
77	Supramolecular assisted fabrication of Mn ₃ O ₄ anchored nitrogen-doped reduced graphene oxide and its distinctive electrochemical activation process during supercapacitive study. <i>Electrochimica Acta</i> , 2021, 370, 137739.	2.6	15
78	Layered molybdenum disulfide coated carbon hollow spheres synthesized through supramolecular self-assembly applied to supercapacitors. <i>International Journal of Energy Research</i> , 2020, 44, 7082-7092.	2.2	14
79	Supramolecule-assisted synthesis of in-situ carbon-coated MnO ₂ nanosphere for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 779, 550-556.	2.8	13
80	Activation of persulfate by CuO-sludge-derived carbon dispersed on silicon carbide foams for odorous methyl mercaptan elimination: identification of reactive oxygen species. <i>Environmental Science and Pollution Research</i> , 2020, 27, 1224-1233.	2.7	12
81	Holey graphene/MnO ₂ nanosheets with open ion channels for high-performance solid-state asymmetric supercapacitors. <i>International Journal of Energy Research</i> , 2020, 44, 3446-3457.	2.2	10
82	Improved electrochemical redox performance of 2,5-dimercapto-1,3,4-thiadiazole by poly(3-methoxythiophene). <i>Journal of Applied Electrochemistry</i> , 2006, 36, 1427-1431.	1.5	8
83	Disinfection of E. Coli Using Visible-light-driven Photocatalyst. <i>Procedia Environmental Sciences</i> , 2013, 18, 503-508.	1.3	8
84	Dual-Functional Tungsten Boosted Lithium-Ion Diffusion and Structural Integrity of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathodes for High Performance Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 50-60.	3.2	7
85	Analysis on the constant-current overcharge electrode process and self-protection mechanism of LiCoO ₂ /graphite batteries. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 407-417.	1.2	5
86	Mechanism of a Lithiated Interlayer for Improving the Cycle Life of High Voltage Li-Ion Batteries Using a Commercial Carbonate Electrolyte. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8057-8066.	1.5	5
87	Reaction Mechanisms of Sodium-Ion Batteries under Various Charge and Discharge Conditions in a Three-Electrode Setup. <i>ChemElectroChem</i> , 2018, 5, 2475-2481.	1.7	4
88	Investigation on the pseudocapacitive charge storage mechanism of MnO ₂ in various electrolytes by electrochemical quartz crystal microbalance (EQCM). <i>Ionics</i> , 2019, 25, 2393-2399.	1.2	4
89	Nest-like N-doped hierarchical porous active carbon formed by sacrifice template for enhanced supercapacitor. <i>Ionics</i> , 2021, 27, 4461-4471.	1.2	4
90	Lithium-Ion Batteries: Recent Advances and New Horizons. <i>International Journal of Electrochemistry</i> , 2012, 2012, 1-2.	2.4	2

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91	Preparation of novel layered AgBr-based inorganic/organic nanosheets by pulsed laser ablation in aqueous media. , 2010, , .		0