

Donghui Long

List of Publications by Year in descending order

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150
papers

10,000
citations

31902

53
h-index

38300

95
g-index

153
all docs

153
docs citations

153
times ranked

12573
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of Nitrogen-Doped Graphene Sheets by a Combined Chemical and Hydrothermal Reduction of Graphene Oxide. <i>Langmuir</i> , 2010, 26, 16096-16102.	1.6	665
2	Zn ²⁺ /Cu ²⁺ /In ³⁺ /Se Quantum Dot Solar Cells with a Certified Power Conversion Efficiency of 11.6%. <i>Journal of the American Chemical Society</i> , 2016, 138, 4201-4209.	6.6	537
3	Free-Standing <i>Ti</i> -Nb ₂ O ₅ /Graphene Composite Papers with Ultrahigh Gravimetric/Volumetric Capacitance for Li-Ion Intercalation Pseudocapacitor. <i>ACS Nano</i> , 2015, 9, 11200-11208.	7.3	349
4	Kinetically-enhanced polysulfide redox reactions by Nb ₂ O ₅ nanocrystals for high-rate lithium-sulfur battery. <i>Energy and Environmental Science</i> , 2016, 9, 3230-3239.	15.6	328
5	High Efficiency Immobilization of Sulfur on Nitrogen-Enriched Mesoporous Carbons for Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5630-5638.	4.0	305
6	Highly flexible and transparent solid-state supercapacitors based on RuO ₂ /PEDOT:PSS conductive ultrathin films. <i>Nano Energy</i> , 2016, 28, 495-505.	8.2	247
7	Nitrogen Doping Effects on the Physical and Chemical Properties of Mesoporous Carbons. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8318-8328.	1.5	237
8	Facile synthesis of hierarchically structured Fe ₃ O ₄ /carbon micro-flowers and their application to lithium-ion battery anodes. <i>Journal of Power Sources</i> , 2011, 196, 3887-3893.	4.0	234
9	Synthesis and Charge Storage Properties of Hierarchical Niobium Pentoxide/Carbon/Niobium Carbide (MXene) Hybrid Materials. <i>Chemistry of Materials</i> , 2016, 28, 3937-3943.	3.2	210
10	In Situ Formed Protective Barrier Enabled by Sulfur@Titanium Carbide (MXene) Ink for Achieving High-Capacity, Long Lifetime Li-S Batteries. <i>Advanced Science</i> , 2018, 5, 1800502.	5.6	210
11	Nitrogen-Doped Mesoporous Carbons as Counter Electrodes in Quantum Dot Sensitized Solar Cells with a Conversion Efficiency Exceeding 12%. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 559-564.	2.1	193
12	A high-rate lithium-sulfur battery assisted by nitrogen-enriched mesoporous carbons decorated with ultrafine La ₂ O ₃ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13283.	5.2	189
13	Carbon Counter-Electrode-Based Quantum-Dot-Sensitized Solar Cells with Certified Efficiency Exceeding 11%. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3103-3111.	2.1	169
14	High-power and high-energy asymmetric supercapacitors based on Li ⁺ -intercalation into a T-Nb ₂ O ₅ /graphene pseudocapacitive electrode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17962-17970.	5.2	153
15	Nitrogen-Rich Mesoporous Carbons: Highly Efficient, Regenerable Metal-Free Catalysts for Low-Temperature Oxidation of H ₂ S. <i>ACS Catalysis</i> , 2013, 3, 862-870.	5.5	150
16	Highly porous carbon spheres for electrochemical capacitors and capacitive flowable suspension electrodes. <i>Carbon</i> , 2014, 77, 155-164.	5.4	148
17	Structural engineering of hydrated vanadium oxide cathode by K ⁺ incorporation for high-capacity and long-cycling aqueous zinc ion batteries. <i>Energy Storage Materials</i> , 2020, 29, 9-16.	9.5	139
18	Effective removal of hexavalent chromium from aqueous solutions by adsorption on mesoporous carbon microspheres. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 200-207.	5.0	131

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19	Carbon dioxide capture using polyethylenimine-loaded mesoporous carbons. <i>Journal of Environmental Sciences</i> , 2013, 25, 124-132.	3.2	127
20	Facile preparation and ultra-microporous structure of melamineâ€“resorcinolâ€“formaldehyde polymeric microspheres. <i>Chemical Communications</i> , 2013, 49, 3763.	2.2	124
21	Surfactant promoted solid amine sorbents for CO ₂ capture. <i>Energy and Environmental Science</i> , 2012, 5, 5742-5749.	15.6	123
22	Nanoarchitected Nb ₂ O ₅ hollow, Nb ₂ O ₅ @carbon and NbO ₂ @carbon Core-Shell Microspheres for Ultrahigh-Rate Intercalation Pseudocapacitors. <i>Scientific Reports</i> , 2016, 6, 21177.	1.6	123
23	Strong and machinable carbon aerogel monoliths with low thermal conductivity prepared via ambient pressure drying. <i>Carbon</i> , 2016, 108, 551-560.	5.4	119
24	Direct Capture of Low-Concentration CO ₂ on Mesoporous Carbon-Supported Solid Amine Adsorbents at Ambient Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 5319-5327.	1.8	113
25	The superior electrochemical performance of oxygen-rich activated carbons prepared from bituminous coal. <i>Electrochemistry Communications</i> , 2008, 10, 1809-1811.	2.3	110
26	Macroscopic and Mechanically Robust Hollow Carbon Spheres with Superior Oil Adsorption and Lightâ€“Heat Evaporation Properties. <i>Advanced Functional Materials</i> , 2016, 26, 5368-5375.	7.8	108
27	High-surface-area and high-nitrogen-content carbon microspheres prepared by a pre-oxidation and mild KOH activation for superior supercapacitor. <i>Carbon</i> , 2017, 118, 699-708.	5.4	104
28	General synthesis of ultrafine metal oxide/reduced graphene oxide nanocomposites for ultrahigh-flux nanofiltration membrane. <i>Nature Communications</i> , 2022, 13, 471.	5.8	96
29	Sulfur film sandwiched between few-layered MoS ₂ electrocatalysts and conductive reduced graphene oxide as a robust cathode for advanced lithiumâ€“sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5899-5909.	5.2	95
30	Colloidal Synthesis of Siliconâ€“Carbon Composite Material for Lithiumâ€“ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10780-10785.	7.2	94
31	Intercalation of cations into partially reduced molybdenum oxide for high-rate pseudocapacitors. <i>Energy Storage Materials</i> , 2015, 1, 1-8.	9.5	92
32	Chemically Bonding NiFe-LDH Nanosheets on rGO for Superior Lithium-Ion Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35977-35986.	4.0	88
33	Adsorption and regeneration study of polyethylenimine-impregnated millimeter-sized mesoporous carbon spheres for post-combustion CO ₂ capture. <i>Applied Energy</i> , 2016, 168, 282-290.	5.1	81
34	Millimeter-sized mesoporous carbon spheres for highly efficient catalytic oxidation of hydrogen sulfide at room temperature. <i>Carbon</i> , 2016, 96, 608-615.	5.4	80
35	Revisiting Li ⁺ intercalation into various crystalline phases of Nb ₂ O ₅ anchored on graphene sheets as pseudocapacitive electrodes. <i>Journal of Power Sources</i> , 2016, 309, 42-49.	4.0	78
36	Role of Pore Structure of Activated Carbon Fibers in the Catalytic Oxidation of H ₂ S. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 3152-3159.	1.8	75

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37	Application of polyethylenimine-impregnated solid adsorbents for direct capture of low-concentration CO ₂ . <i>AIChE Journal</i> , 2015, 61, 972-980.	1.8	73
38	Electrochemical surface oxidation of carbon nanofibers. <i>Carbon</i> , 2011, 49, 96-105.	5.4	72
39	Unique electrochemical behavior of heterocyclic selenium-sulfur cathode materials in ether-based electrolytes for rechargeable lithium batteries. <i>Energy Storage Materials</i> , 2016, 5, 171-179.	9.5	72
40	High-mechanical-strength polyimide aerogels crosslinked with 4,4'-oxydianiline-functionalized carbon nanotubes. <i>Carbon</i> , 2019, 144, 24-31.	5.4	72
41	Chemical state of nitrogen in carbon aerogels issued from phenol-melamine-formaldehyde gels. <i>Carbon</i> , 2008, 46, 1259-1262.	5.4	67
42	Synthesis and electrochemical properties of niobium pentoxide deposited on layered carbide-derived carbon. <i>Journal of Power Sources</i> , 2015, 274, 121-129.	4.0	66
43	Mesoporous Carbon-Supported Solid Amine Sorbents for Low-Temperature Carbon Dioxide Capture. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 5437-5444.	1.8	65
44	Aqueous Al-Ion Supercapacitor with V ₂ O ₅ Mesoporous Carbon Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15573-15580.	4.0	64
45	Facile synthesis and superior anodic performance of ultrafine SnO ₂ -containing nanocomposites. <i>Electrochimica Acta</i> , 2009, 54, 5782-5788.	2.6	63
46	Three-dimensional mesoporous carbon aerogels: ideal catalyst supports for enhanced H ₂ S oxidation. <i>Chemical Communications</i> , 2009, , 3898.	2.2	63
47	Rational Design of High-Surface-Area Carbon Nanotube/Microporous Carbon Core-Shell Nanocomposites for Supercapacitor Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4817-4825.	4.0	62
48	Template-free synthesis of nitrogen-doped hierarchical porous carbons for CO ₂ adsorption and supercapacitor electrodes. <i>Journal of Colloid and Interface Science</i> , 2017, 488, 207-217.	5.0	62
49	Poly(ethyleneimine)-Loaded Silica Monolith with a Hierarchical Pore Structure for H ₂ S Adsorptive Removal. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 11408-11414.	1.8	60
50	Enhanced Electrochemical Performance of Hydrous RuO ₂ /Mesoporous Carbon Nanocomposites via Nitrogen Doping. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9751-9759.	4.0	59
51	Probing the room-temperature oxidative desulfurization activity of three-dimensional alkaline graphene aerogel. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118266.	10.8	59
52	Biomolecular adsorption behavior on spherical carbon aerogels with various mesopore sizes. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 40-46.	5.0	58
53	Mechanism insight into photocatalytic conversion of lignin for valuable chemicals and fuels production: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 147, 111217.	8.2	57
54	Impedance of carbon aerogel/activated carbon composites as electrodes of electrochemical capacitors in aprotic electrolyte. <i>New Carbon Materials</i> , 2007, 22, 153-158.	2.9	55

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55	Structural features of polyacrylonitrile-based carbon fibers. <i>Journal of Materials Science</i> , 2012, 47, 919-928.	1.7	54
56	Layered carbide-derived carbon with hierarchically porous structure for high rate lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2016, 188, 385-392.	2.6	54
57	Promoting polythionate intermediates formation by oxygen-deficient manganese oxide hollow nanospheres for high performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2019, 370, 556-564.	6.6	54
58	Ion Transport Behavior in Triblock Copolymer-Templated Ordered Mesoporous Carbons with Different Pore Symmetries. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18745-18751.	1.5	53
59	Direct trapping and rapid conversing of polysulfides via a multifunctional Nb ₂ O ₅ -CNT catalytic layer for high performance lithium-sulfur batteries. <i>Carbon</i> , 2021, 172, 260-271.	5.4	53
60	Unveiling the Nature of Room-Temperature O ₂ Activation and O ₂ ^{•-} Enrichment on MgO-Loaded Porous Carbons with Efficient H ₂ S Oxidation. <i>ACS Catalysis</i> , 2021, 11, 5974-5983.	5.5	53
61	Ultrahigh intercalation pseudocapacitance of mesoporous orthorhombic niobium pentoxide from a novel cellulose nanocrystal template. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 495-504.	2.0	52
62	Polycation Binders: An Effective Approach toward Lithium Polysulfide Sequestration in Li-S Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2591-2597.	8.8	51
63	Promoting sulfur immobilization by a hierarchical morphology of hollow carbon nanosphere clusters for high-stability Li-S battery. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6250-6258.	5.2	50
64	Grafting polyethyleneimine on electrospun nanofiber separator to stabilize lithium metal anode for lithium sulfur batteries. <i>Chemical Engineering Journal</i> , 2020, 388, 124258.	6.6	50
65	Elucidating multiple-scale reaction behaviors of phenolic resin pyrolysis via TG-FTIR and ReaxFF molecular dynamics simulations. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 157, 105222.	2.6	50
66	Design of ultra-active iron-based Fischer-Tropsch synthesis catalysts over spherical mesoporous carbon with developed porosity. <i>Chemical Engineering Journal</i> , 2018, 334, 714-724.	6.6	48
67	Fabricating a high-energy-density supercapacitor with asymmetric aqueous redox additive electrolytes and free-standing activated-carbon-felt electrodes. <i>Chemical Engineering Journal</i> , 2019, 363, 183-191.	6.6	48
68	Alkaline carbon nanotubes as effective catalysts for H ₂ S oxidation. <i>Carbon</i> , 2011, 49, 3773-3780.	5.4	47
69	Free-standing carbon nanofiber fabrics for high performance flexible supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 513-522.	5.0	45
70	Enhanced electrochemical performances of mesoporous carbon microsphere/selenium composites by controlling the pore structure and nitrogen doping. <i>Electrochimica Acta</i> , 2015, 153, 140-148.	2.6	44
71	Two-dimensional CaO/carbon heterostructures with unprecedented catalytic performance in room-temperature H ₂ S oxidization. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119444.	10.8	42
72	Suspension assisted synthesis of triblock copolymer-templated ordered mesoporous carbon spheres with controlled particle size. <i>Chemical Communications</i> , 2008, , 2647.	2.2	39

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73	Graphitization behaviour of chemically derived graphene sheets. <i>Nanoscale</i> , 2011, 3, 3652.	2.8	39
74	Structure-dependent catalytic oxidation of H ₂ S over Na ₂ CO ₃ impregnated carbon aerogels. <i>Microporous and Mesoporous Materials</i> , 2011, 142, 641-648.	2.2	39
75	Low temperature catalytic combustion of ethylene over cobalt oxide supported mesoporous carbon spheres. <i>Chemical Engineering Journal</i> , 2016, 293, 243-251.	6.6	37
76	Colloidal Synthesis of Silicon@Carbon Composite Material for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2017, 129, 10920-10925.	1.6	36
77	Fiber Reinforced Polyimide Aerogel Composites with High Mechanical Strength for High Temperature Insulation. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800676.	1.7	36
78	Melamine-assisted one-pot synthesis of hierarchical nitrogen-doped carbon@MoS ₂ nanowalled core-shell microspheres and their enhanced Li-storage performances. <i>Nanoscale</i> , 2015, 7, 13043-13050.	2.8	35
79	Constructing T-Nb ₂ O ₅ @Carbon hollow core-shell nanostructures for high-rate hybrid supercapacitor. <i>Journal of Power Sources</i> , 2018, 396, 88-94.	4.0	35
80	Partially unzipped carbon nanotubes as a superior catalyst support for PEM fuel cells. <i>Chemical Communications</i> , 2011, 47, 9429.	2.2	34
81	Synthesis and characterization of high-softening-point methylene-bridged pitches by visible light irradiation assisted free-radical bromination. <i>Carbon</i> , 2015, 95, 780-788.	5.4	34
82	Hard-templating synthesis of mesoporous carbon spheres with controlled particle size and mesoporous structure for enzyme immobilization. <i>Materials Chemistry and Physics</i> , 2011, 129, 1035-1041.	2.0	33
83	Flexible carbon nanofiber sponges for highly efficient and recyclable oil absorption. <i>RSC Advances</i> , 2015, 5, 70025-70031.	1.7	33
84	Expediting polysulfide catalytic conversion for lithium-sulfur batteries <i>via in situ</i> implanted ultrafine Fe ₃ O ₄ nanocrystals in carbon nanospheres. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24117-24127.	5.2	33
85	A General Silica-Templating Synthesis of Alkaline Mesoporous Carbon Catalysts for Highly Efficient H ₂ S Oxidation at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2477-2484.	4.0	32
86	Bottom-Up Catalytic Approach towards Nitrogen-Enriched Mesoporous Carbons/Sulfur Composites for Superior Li-S Cathodes. <i>Scientific Reports</i> , 2013, 3, 2823.	1.6	31
87	Controllable synthesis of hierarchical mesoporous/microporous nitrogen-rich polymer networks for CO ₂ and Cr(VI) ion adsorption. <i>RSC Advances</i> , 2014, 4, 16224-16232.	1.7	30
88	Capacitive matching of pore size and ion size in the negative and positive electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2011, 56, 9248-9256.	2.6	29
89	Organic Amine-Mediated Synthesis of Polymer and Carbon Microspheres: Mechanism Insight and Energy-Related Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4851-4861.	4.0	29
90	Three-dimensional Mn-Cu-Ce ternary mixed oxide networks prepared by polymer-assisted deposition for HCHO catalytic oxidation. <i>Catalysis Science and Technology</i> , 2018, 8, 2740-2749.	2.1	29

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91	<i>Ti</i> -Nb ₂ O ₅ nanoparticle enabled pseudocapacitance with fast Li-ion intercalation. <i>Nanoscale</i> , 2018, 10, 14165-14170.	2.8	29
92	Controllable Nitrogen Doping of High-Surface-Area Microporous Carbons Synthesized from an Organic-Inorganic Sol-Gel Approach for Li-S Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21188-21197.	4.0	28
93	Lightweight and Flexible Phenolic Aerogels with Three-Dimensional Foam Reinforcement for Acoustic and Thermal Insulation. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 1241-1249.	1.8	28
94	Ultrahigh-strength carbon aerogels for high temperature thermal insulation. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 667-675.	5.0	28
95	Ion Intercalation into Graphitic Carbon with a Low Surface Area for High Energy Density Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1486-A1494.	1.3	27
96	Colloidal dispersion of Nb ₂ O ₅ /reduced graphene oxide nanocomposites as functional coating layer for polysulfide shuttle suppression and lithium anode protection of Li-S battery. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 11-20.	5.0	27
97	Preparation and microstructure control of carbon aerogels produced using m-cresol mediated sol-gel polymerization of phenol and furfural. <i>New Carbon Materials</i> , 2008, 23, 165-170.	2.9	26
98	A substrate-influenced three-dimensional unoriented dispersion pathway for dendrite-free lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14910-14918.	5.2	26
99	Rational cooperativity of nanospace confinement and rapid catalysis via hollow carbon nanospheres@Nb-based inorganics for high-rate Li-S batteries. <i>Chemical Engineering Journal</i> , 2021, 411, 128504.	6.6	26
100	Oxygen-vacancy-rich Fe ₃ O ₄ /carbon nanosheets enabling high-attenuation and broadband microwave absorption through the integration of interfacial polarization and charge-separation polarization. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8479-8490.	5.2	26
101	Effect of template and precursor chemistry on pore architectures of triblock copolymer-templated mesoporous carbons. <i>Microporous and Mesoporous Materials</i> , 2009, 121, 58-66.	2.2	24
102	Fabrication of Uniform Graphene Discs via Transversal Cutting of Carbon Nanofibers. <i>ACS Nano</i> , 2011, 5, 6254-6261.	7.3	24
103	Asymmetric capacitance response from the chemical characteristics of activated carbons in KOH electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2011, 659, 161-167.	1.9	24
104	Preparation of TiO ₂ /mesoporous carbon composites and their photocatalytic performance for methyl orange degradation. <i>New Carbon Materials</i> , 2013, 28, 47-54.	2.9	24
105	Tunable Production of Jet-Fuel Range Alkanes and Aromatics by Catalytic Pyrolysis of LDPE over Biomass-Derived Activated Carbons. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17451-17461.	1.8	23
106	Nanocrystalline celluloses-assisted preparation of hierarchical carbon monoliths for hexavalent chromium removal. <i>Journal of Colloid and Interface Science</i> , 2018, 510, 77-85.	5.0	22
107	A lithiated organic nanofiber-reinforced composite polymer electrolyte enabling Li-ion conduction highways for solid-state lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23882-23890.	5.2	22
108	Simultaneous micropore development and nitrogen doping of ordered mesoporous carbons for enhanced supercapacitor and Li-S cathode performance. <i>Electrochimica Acta</i> , 2016, 214, 231-240.	2.6	21

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109	Homogenously dispersed ultrasmall niobium(V) oxide nanoparticles enabling improved ionic conductivity and interfacial compatibility of composite polymer electrolyte. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 855-865.	5.0	21
110	Hexagonal Rodlike Cu-MOF-74-Derived Filler-Reinforced Composite Polymer Electrolyte for High-Performance Solid-State Lithium Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 1095-1105.	2.5	21
111	Large-scale synthesis of mesoporous carbon microspheres with controllable structure and nitrogen doping using a spray drying method. <i>RSC Advances</i> , 2014, 4, 62662-62665.	1.7	20
112	Scalable preparation of nitrogen-enriched carbon microspheres for efficient CO ₂ capture. <i>RSC Advances</i> , 2014, 4, 61456-61464.	1.7	19
113	Highly efficient removal of bulky tannic acid by millimeter-sized nitrogen-doped mesoporous carbon beads. <i>AIChE Journal</i> , 2017, 63, 3016-3025.	1.8	19
114	Enabling high-rate electrochemical flow capacitors based on mesoporous carbon microspheres suspension electrodes. <i>Journal of Power Sources</i> , 2017, 364, 182-190.	4.0	19
115	Kinetics and Mechanism Study of Low-Temperature Selective Catalytic Reduction of NO with Urea Supported on Pitch-Based Spherical Activated Carbon. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 6017-6027.	1.8	18
116	Polymer-chelation synthesis of compositionally homogeneous LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ crystals for lithium-ion cathode. <i>Electrochimica Acta</i> , 2018, 269, 724-732.	2.6	18
117	Effect of graphitic structure on electrochemical ion intercalation into positive and negative electrodes. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2673-2682.	1.2	17
118	Synthesis of ultrahigh-pore-volume carbon aerogels through a "reinforced-concrete"-modified sol-gel process. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 232-235.	1.5	16
119	Flexible Ru/Graphene Aerogel with Switchable Surface Chemistry: Highly Efficient Catalyst for Room-Temperature CO Oxidation. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500711.	1.9	16
120	Scalable preparation of hollow polymer and carbon microspheres by spray drying and their application in low-density syntactic foam. <i>Materials Chemistry and Physics</i> , 2016, 181, 150-158.	2.0	15
121	Self-propelled nanoemulsion assembly of organosilane to the synthesis of high-surface-area hollow carbon spheres for enhanced energy storage. <i>Chemical Engineering Journal</i> , 2020, 400, 124973.	6.6	15
122	Molecular design of polymer precursors for controlling microstructure of organic and carbon aerogels. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1252-1258.	1.5	14
123	Fabrication of hierarchical porous carbide-derived carbons by chlorination of mesoporous titanium carbides. <i>New Carbon Materials</i> , 2009, 24, 243-250.	2.9	14
124	Meso-channel Development in Graphitic Carbon Nanofibers with Various Structures. <i>Chemistry of Materials</i> , 2011, 23, 4141-4148.	3.2	14
125	Engineering the outermost surface of mesoporous carbon beads towards the broad-spectrum blood-cleansing application. <i>Carbon</i> , 2018, 130, 782-791.	5.4	14
126	Pt-NbC Composite as a Bifunctional Catalyst for Redox Transformation of Polysulfides in High-Rate-Performing Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35008-35018.	4.0	13

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127	Mesoporous Carbon Beads Impregnated with Transition Metal Chlorides for Regenerative Removal of Ammonia in the Atmosphere. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 3283-3290.	1.8	12
128	Monolithic carbon aerogels within foam framework for high-temperature thermal insulation and organics absorption. <i>Journal of Colloid and Interface Science</i> , 2022, 618, 259-269.	5.0	12
129	Multiple ionic conduction highways and good interfacial stability of ionic liquid-encapsulated cross-linked polymer electrolytes for lithium metal batteries. <i>Journal of Power Sources</i> , 2022, 543, 231848.	4.0	12
130	Thermo-catalytic conversion of waste plastics into surrogate fuels over spherical activated carbon of long-life durability. <i>Waste Management</i> , 2022, 148, 1-11.	3.7	11
131	Highly effective utilization of ethylene tar for mesophase development via a molecular fractionation process. <i>RSC Advances</i> , 2016, 6, 796-804.	1.7	10
132	Rapid Gas-Engineering to the Manufacture of Graphene-Like Mesoporous Carbon Nanosheets with a Large Aspect Ratio. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47792-47801.	4.0	10
133	Promoting polysulfide redox kinetics by tuning the non-metallic p-band of Mo-based compounds. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11477-11487.	5.2	10
134	Micro-fracture behaviors of needled short-chopped fiber reinforced phenolic aerogel composites based on in-situ X-ray micro-CT. <i>Composites Communications</i> , 2022, 33, 101224.	3.3	10
135	New concept of in situ carbide-derived carbon/xerogel nanocomposite materials for electrochemical capacitor. <i>Materials Letters</i> , 2011, 65, 1392-1395.	1.3	9
136	Significantly enhanced rate capability in supercapacitors using carbide-derived carbons electrode with superior microstructure. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1263-1270.	1.2	9
137	Shape- ϵ Customizable Macro- μ Microporous Carbon Monoliths for Structure- ϵ to- ϵ Functionality CO ₂ Adsorption and Novel Electrical Regeneration. <i>Advanced Materials Technologies</i> , 2017, 2, 1700088.	3.0	9
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