

Donghui Long

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144
papers

7,787
citations

48
h-index

84
g-index

153
ext. papers

8,850
ext. citations

8.9
avg, IF

6.15
L-index

#	Paper	IF	Citations
144	Preparation of nitrogen-doped graphene sheets by a combined chemical and hydrothermal reduction of graphene oxide. <i>Langmuir</i> , 2010 , 26, 16096-102	4	580
143	Zn-Cu-In-Se Quantum Dot Solar Cells with a Certified Power Conversion Efficiency of 11.6%. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4201-9	16.4	476
142	Free-Standing T-Nb ₂ O ₅ /Graphene Composite Papers with Ultrahigh Gravimetric/Volumetric Capacitance for Li-Ion Intercalation Pseudocapacitor. <i>ACS Nano</i> , 2015 , 9, 11200-8	16.7	309
141	High efficiency immobilization of sulfur on nitrogen-enriched mesoporous carbons for Li-S batteries. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5630-8	9.5	280
140	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	35.4	259
139	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	8.9	215
138	Highly flexible and transparent solid-state supercapacitors based on RuO ₂ /PEDOT:PSS conductive ultrathin films. <i>Nano Energy</i> , 2016 , 28, 495-505	17.1	197
137	Nitrogen Doping Effects on the Physical and Chemical Properties of Mesoporous Carbons. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8318-8328	3.8	194
136	Synthesis and Charge Storage Properties of Hierarchical Niobium Pentoxide/Carbon/Niobium Carbide (MXene) Hybrid Materials. <i>Chemistry of Materials</i> , 2016 , 28, 3937-3943	9.6	172
135	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	13	169
134	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	6.4	167
133	Carbon Counter-Electrode-Based Quantum-Dot-Sensitized Solar Cells with Certified Efficiency Exceeding 11. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3103-11	6.4	154
132	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	13.6	147
131	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	13	142
130	Highly porous carbon spheres for electrochemical capacitors and capacitive flowable suspension electrodes. <i>Carbon</i> , 2014 , 77, 155-164	10.4	132
129	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	13.1	110
128	Surfactant promoted solid amine sorbents for CO ₂ capture. <i>Energy and Environmental Science</i> , 2012 , 5, 5742-5749	35.4	109

127	Facile preparation and ultra-microporous structure of melamine-resorcinol-formaldehyde polymeric microspheres. <i>Chemical Communications</i> , 2013 , 49, 3763-5	5.8	107
126	Effective removal of hexavalent chromium from aqueous solutions by adsorption on mesoporous carbon microspheres. <i>Journal of Colloid and Interface Science</i> , 2016 , 462, 200-7	9.3	105
125	Carbon dioxide capture using polyethylenimine-loaded mesoporous carbons. <i>Journal of Environmental Sciences</i> , 2013 , 25, 124-32	6.4	105
124	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	4.9	97
123	The superior electrochemical performance of oxygen-rich activated carbons prepared from bituminous coal. <i>Electrochemistry Communications</i> , 2008 , 10, 1809-1811	5.1	96
122	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	10.4	85
121	Strong and machinable carbon aerogel monoliths with low thermal conductivity prepared via ambient pressure drying. <i>Carbon</i> , 2016 , 108, 551-560	10.4	84
120	Macroscopic and Mechanically Robust Hollow Carbon Spheres with Superior Oil Adsorption and Light-to-Heat Evaporation Properties. <i>Advanced Functional Materials</i> , 2016 , 26, 5368-5375	15.6	82
119	Intercalation of cations into partially reduced molybdenum oxide for high-rate pseudocapacitors. <i>Energy Storage Materials</i> , 2015 , 1, 1-8	19.4	80
118	Sulfur film sandwiched between few-layered MoS ₂ electrocatalysts and conductive reduced graphene oxide as a robust cathode for advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5899-5909	13	79
117	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	3.9	74
116	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	8.9	70
115	Colloidal Synthesis of Silicon-Carbon Composite Material for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10780-10785	16.4	68
114	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	10.7	67
113	Synthesis and electrochemical properties of niobium pentoxide deposited on layered carbide-derived carbon. <i>Journal of Power Sources</i> , 2015 , 274, 121-129	8.9	64
112	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	19.4	63
111	Chemical state of nitrogen in carbon aerogels issued from phenol-melamine-formaldehyde gels. <i>Carbon</i> , 2008 , 46, 1259-1262	10.4	63
110	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	19.4	63

109	Application of polyethylenimine-impregnated solid adsorbents for direct capture of low-concentration CO ₂ . <i>AIChE Journal</i> , 2015 , 61, 972-980	3.6	62
108	Electrochemical surface oxidation of carbon nanofibers. <i>Carbon</i> , 2011 , 49, 96-105	10.4	62
107	Facile synthesis and superior anodic performance of ultrafine SnO ₂ -containing nanocomposites. <i>Electrochimica Acta</i> , 2009 , 54, 5782-5788	6.7	59
106	Enhanced electrochemical performance of hydrous RuO ₂ /mesoporous carbon nanocomposites via nitrogen doping. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9751-9	9.5	57
105	Millimeter-sized mesoporous carbon spheres for highly efficient catalytic oxidation of hydrogen sulfide at room temperature. <i>Carbon</i> , 2016 , 96, 608-615	10.4	54
104	Mesoporous Carbon-Supported Solid Amine Sorbents for Low-Temperature Carbon Dioxide Capture. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 5437-5444	3.9	54
103	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	3.9	53
102	Biomolecular adsorption behavior on spherical carbon aerogels with various mesopore sizes. <i>Journal of Colloid and Interface Science</i> , 2009 , 331, 40-6	9.3	53
101	Three-dimensional mesoporous carbon aerogels: ideal catalyst supports for enhanced H ₂ S oxidation. <i>Chemical Communications</i> , 2009 , 3898-900	5.8	53
100	Template-free synthesis of nitrogen-doped hierarchical porous carbons for CO adsorption and supercapacitor electrodes. <i>Journal of Colloid and Interface Science</i> , 2017 , 488, 207-217	9.3	52
99	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	4.4	50
98	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	3.8	50
97	Structural features of polyacrylonitrile-based carbon fibers. <i>Journal of Materials Science</i> , 2012 , 47, 919-928	4.8	48
96	Rational design of high-surface-area carbon nanotube/microporous carbon core-shell nanocomposites for supercapacitor electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4817-25	9.5	48
95	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	3.9	48
94	Impedance of carbon aerogel/activated carbon composites as electrodes of electrochemical capacitors in aprotic electrolyte. <i>New Carbon Materials</i> , 2007 , 22, 153-158	4.4	47
93	Layered carbide-derived carbon with hierarchically porous structure for high rate lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2016 , 188, 385-392	6.7	43
92	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	6.7	41

91	High-mechanical-strength polyimide aerogels crosslinked with 4, 4'-oxydianiline-functionalized carbon nanotubes. <i>Carbon</i> , 2019 , 144, 24-31	10.4	41
90	Polycation Binders: An Effective Approach toward Lithium Polysulfide Sequestration in LiS Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 2591-2597	20.1	39
89	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	14.7	39
88	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	14.7	39
87	Chemically Bonding NiFe-LDH Nanosheets on rGO for Superior Lithium-Ion Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35977-35986	9.5	38
86	Promoting sulfur immobilization by a hierarchical morphology of hollow carbon nanosphere clusters for high-stability LiS battery. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6250-6258	13	38
85	Suspension assisted synthesis of triblock copolymer-templated ordered mesoporous carbon spheres with controlled particle size. <i>Chemical Communications</i> , 2008 , 2647-9	5.8	38
84	Graphitization behaviour of chemically derived graphene sheets. <i>Nanoscale</i> , 2011 , 3, 3652-6	7.7	37
83	Aqueous Al-Ion Supercapacitor with VO Mesoporous Carbon Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15573-15580	9.5	35
82	Alkaline carbon nanotubes as effective catalysts for H ₂ S oxidation. <i>Carbon</i> , 2011 , 49, 3773-3780	10.4	34
81	Free-standing carbon nanofiber fabrics for high performance flexible supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2018 , 531, 513-522	9.3	33
80	Partially unzipped carbon nanotubes as a superior catalyst support for PEM fuel cells. <i>Chemical Communications</i> , 2011 , 47, 9429-31	5.8	32
79	Flexible carbon nanofiber sponges for highly efficient and recyclable oil absorption. <i>RSC Advances</i> , 2015 , 5, 70025-70031	3.7	31
78	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	5.3	31
77	Melamine-assisted one-pot synthesis of hierarchical nitrogen-doped carbon@MoS ₂ hollowed core-shell microspheres and their enhanced Li-storage performances. <i>Nanoscale</i> , 2015 , 7, 13043-50	7.7	30
76	Grafting polyethyleneimine on electrospun nanofiber separator to stabilize lithium metal anode for lithium sulfur batteries. <i>Chemical Engineering Journal</i> , 2020 , 388, 124258	14.7	30
75	Probing the room-temperature oxidative desulfurization activity of three-dimensional alkaline graphene aerogel. <i>Applied Catalysis B: Environmental</i> , 2020 , 262, 118266	21.8	30
74	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	3.7	29

73	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	4.4	29
72	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	8.9	28
71	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	14.7	28
70	Bottom-up catalytic approach towards nitrogen-enriched mesoporous carbons/sulfur composites for superior Li-S cathodes. <i>Scientific Reports</i> , 2013 , 3, 2823	4.9	26
69	Colloidal Synthesis of Silicon@Carbon Composite Material for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 10920-10925	3.6	26
68	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, 21188-97	9.5	25
67	Low temperature catalytic combustion of ethylene over cobalt oxide supported mesoporous carbon spheres. <i>Chemical Engineering Journal</i> , 2016 , 293, 243-251	14.7	24
66	Organic Amine-Mediated Synthesis of Polymer and Carbon Microspheres: Mechanism Insight and Energy-Related Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4851-61	9.5	24
65	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	4.4	24
64	Fabrication of uniform graphene discs via transversal cutting of carbon nanofibers. <i>ACS Nano</i> , 2011 , 5, 6254-61	16.7	23
63	Capacitive matching of pore size and ion size in the negative and positive electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2011 , 56, 9248-9256	6.7	23
62	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	5.3	23
61	Asymmetric capacitance response from the chemical characteristics of activated carbons in KOH electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 659, 161-167	4.1	23
60	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	3.9	22
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	10.4	22
58	T-NbO nanoparticle enabled pseudocapacitance with fast Li-ion intercalation. <i>Nanoscale</i> , 2018 , 10, 14165-14170	7.7	22
57	Fiber Reinforced Polyimide Aerogel Composites with High Mechanical Strength for High Temperature Insulation. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800676	3.9	21
56	Expediting polysulfide catalytic conversion for lithium-sulfur batteries via in situ implanted ultrafine Fe ₃ O ₄ nanocrystals in carbon nanospheres. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24117-24127	13.2	20

55	Three-dimensional MnCuCe ternary mixed oxide networks prepared by polymer-assisted deposition for HCHO catalytic oxidation. <i>Catalysis Science and Technology</i> , 2018 , 8, 2740-2749	5.5	20
54	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	10.4	20
53	Nanocrystalline celluloses-assisted preparation of hierarchical carbon monoliths for hexavalent chromium removal. <i>Journal of Colloid and Interface Science</i> , 2018 , 510, 77-85	9.3	20
52	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	13	19
51	Preparation of TiO ₂ /mesoporous carbon composites and their photocatalytic performance for methyl orange degradation. <i>New Carbon Materials</i> , 2013 , 28, 47-54	4.4	19
50	Scalable preparation of nitrogen-enriched carbon microspheres for efficient CO ₂ capture. <i>RSC Advances</i> , 2014 , 4, 61456-61464	3.7	19
49	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	6.7	19
48	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	3.7	18
47	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	3.9	18
46	Colloidal dispersion of NbO/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	9.3	17
45	A General Silica-Templating Synthesis of Alkaline Mesoporous Carbon Catalysts for Highly Efficient HS Oxidation at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2477-2484	9.5	16
44	Enabling high-rate electrochemical flow capacitors based on mesoporous carbon microspheres suspension electrodes. <i>Journal of Power Sources</i> , 2017 , 364, 182-190	8.9	16
43	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	14.7	15
42	Effect of graphitic structure on electrochemical ion intercalation into positive and negative electrodes. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2673-2682	2.6	14
41	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	3.9	14
40	Highly efficient removal of bulky tannic acid by millimeter-sized nitrogen-doped mesoporous carbon beads. <i>AIChE Journal</i> , 2017 , 63, 3016-3025	3.6	13
39	Meso-channel Development in Graphitic Carbon Nanofibers with Various Structures. <i>Chemistry of Materials</i> , 2011 , 23, 4141-4148	9.6	13
38	Molecular design of polymer precursors for controlling microstructure of organic and carbon aerogels. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 1252-1258	3.9	13

37	Fabrication of hierarchical porous carbide-derived carbons by chlorination of mesoporous titanium carbides. <i>New Carbon Materials</i> , 2009 , 24, 243-250	4.4	13
36	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	13.1	13
35	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	16.2	13
34	Flexible Ru/Graphene Aerogel with Switchable Surface Chemistry: Highly Efficient Catalyst for Room-Temperature CO Oxidation. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500711	4.6	12
33	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	4.4	12
32	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	14.7	10
31	Engineering the outermost surface of mesoporous carbon beads towards the broad-spectrum blood-cleansing application. <i>Carbon</i> , 2018 , 130, 782-791	10.4	10
30	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	6.7	10
29	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	21.8	10
28	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	9.3	10
27	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	2.6	9
26	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	2.0	8
25	New concept of in situ carbide-derived carbon/xerogel nanocomposite materials for electrochemical capacitor. <i>Materials Letters</i> , 2011 , 65, 1392-1395	3.3	8
24	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	3.9	8
23	General synthesis of ultrafine metal oxide/reduced graphene oxide nanocomposites for ultrahigh-flux nanofiltration membrane.. <i>Nature Communications</i> , 2022 , 13, 471	17.4	7
22	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	6	7
21	Highly effective utilization of ethylene tar for mesophase development via a molecular fractionation process. <i>RSC Advances</i> , 2016 , 6, 796-804	3.7	6
20	Progressively providing ionic inhibitor via functional nanofiber layer to stabilize lithium metal anode. <i>Electrochimica Acta</i> , 2019 , 302, 301-309	6.7	5

19	Shape-Customizable Macro-/Microporous Carbon Monoliths for Structure-to-Functionality CO ₂ Adsorption and Novel Electrical Regeneration. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700088	6.8	5
18	Ultra-high-strength carbon aerogels for high temperature thermal insulation. <i>Journal of Colloid and Interface Science</i> , 2021 ,	9.3	5
17	Design of a dual-bed catalyst system with microporous carbons and urea-supported mesoporous carbons for highly effective removal of NO _x at room temperature. <i>RSC Advances</i> , 2016 , 6, 27272-27281	3.7	5
16	Fabrication of monolithic carbon nanofiber/carbon composites. <i>RSC Advances</i> , 2016 , 6, 6443-6450	3.7	4
15	Structural units and their periodicity in carbon nanotubes. <i>Small</i> , 2010 , 6, 2526-9	11	4
14	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	9.5	4
13	In-situ anchoring sulphophilic silica nanoparticles onto macro-mesoporous carbon framework for cost-effective Li-S cathodes. <i>Chemical Engineering Journal</i> , 2021 , 406, 126781	14.7	4
12	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	3.9	3
11	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	9.5	3
10	Dimensional control of tubular-type carbon nanofibers via pyrolytic carbon coating. <i>Journal of Materials Science</i> , 2017 , 52, 5165-5178	4.3	2
9	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	13	2
8	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	9.3	2
7	In Situ Formed Lithiophilic LiNbO in a Carbon Nanofiber Network for Dendrite-Free Li-Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56498-56509	9.5	1
6	Structure Control of Ordered Mesoporous Carbon Spheres Prepared from Suspension-assisted Evaporation-induced Self-assembly. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2009 , 24, 571-576	1	1
5	Synthesis and Structure of Carbon/Silica Hybrid Aerogels. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2009 , 24, 690-694	1	1
4	Synergistic action of Pt and Nb ₂ O ₅ ultrafine nanoparticles for bidirectional conversion of polysulfides in high-performance lithium-sulfur cells. <i>Chemical Engineering Journal</i> , 2021 , 132714	14.7	1
3	Scalable preparation of high-strength hierarchically porous carbon beads with bicontinuous macroporous network by solvent induced phase separation technique for NO _x removal. <i>Microporous and Mesoporous Materials</i> , 2022 , 330, 111620	5.3	0
2	Performance of high-temperature lightweight multilayer insulations. <i>Applied Thermal Engineering</i> , 2022 , 211, 118436	5.8	0

- 1 Thermo-catalytic conversion of waste plastics into surrogate fuels over spherical activated carbon of long-life durability. *Waste Management*, **2022**, 148, 1-11 8.6 o