List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Characteristics and applications of micro fluidized beds (MFBs). Chemical Engineering Journal, 2022, 428, 131330.	6.6	15
2	Microcrystalline regulation of bituminous coal derived hard carbon by pre-oxidation strategy for improved sodium-ion storage. Fuel, 2022, 310, 122072.	3.4	16
3	Understanding the activity origin of oxygen-doped carbon materials in catalyzing the two-electron oxygen reduction reaction towards hydrogen peroxide generation. Journal of Colloid and Interface Science, 2022, 610, 934-943.	5.0	15
4	Activity origin of boron doped carbon cluster for thermal catalytic oxidation: Coupling effects of dopants and edges. Journal of Colloid and Interface Science, 2022, 613, 47-56.	5.0	11
5	One-step synergistic optimization of hierarchical pore topology and nitrogen dopants in activated coke for efficient catalytic oxidation of nitric oxide. Journal of Cleaner Production, 2022, 335, 130360.	4.6	8
6	Experimental and numerical studies on the heating mechanism of millimeter multi-particle system under microwave irradiation. Journal of the Energy Institute, 2022, 102, 216-228.	2.7	16
7	High-Performance Battery Separator Made by Thermally Activated Metal–Organic Frameworks. ACS Applied Energy Materials, 2022, 5, 5519-5524.	2.5	6
8	Tuning porosity of coal-derived activated carbons for CO2 adsorption. Frontiers of Chemical Science and Engineering, 2022, 16, 1345-1354.	2.3	9
9	Pulsed electrocatalysis enables the stabilization and activation of carbon-based catalysts towards H2O2 production. Applied Catalysis B: Environmental, 2022, 316, 121688.	10.8	32
10	Carboxylâ€Ðominant Oxygen Rich Carbon for Improved Sodium Ion Storage: Synergistic Enhancement of Adsorption and Intercalation Mechanisms. Advanced Energy Materials, 2021, 11, .	10.2	133
11	Vapor deposition of aluminium oxide into N-rich mesoporous carbon framework as a reversible sulfur host for lithium-sulfur battery cathode. Nano Research, 2021, 14, 131-138.	5.8	24
12	Pulsed electrocatalysis enables an efficient 2-electron oxygen reduction reaction for H ₂ O ₂ production. Journal of Materials Chemistry A, 2021, 9, 15948-15954.	5.2	25
13	Electrolyte Interphase Built from Anionic Covalent Organic Frameworks for Lithium Dendrite Suppression. Advanced Functional Materials, 2021, 31, 2009718.	7.8	43
14	H ₂ O ₂ Electrogeneration from O ₂ Electroreduction by Nâ€Doped Carbon Materials: A Miniâ€Review on Preparation Methods, Selectivity of N Sites, and Prospects. Advanced Materials Interfaces, 2021, 8, 2002091.	1.9	54
15	Selective H2O2 electrosynthesis by O-doped and transition-metal-O-doped carbon cathodes via O2 electroreduction: A critical review. Chemical Engineering Journal, 2021, 410, 128368.	6.6	110
16	Inexpensive activated coke electrocatalyst for high-efficiency hydrogen peroxide production: Coupling effects of amorphous carbon cluster and oxygen dopant. Applied Catalysis B: Environmental, 2021, 286, 119860.	10.8	55
17	Catalytic activation preparation of nitrogen-doped hierarchical porous bio-char for efficient adsorption of dichloromethane and toluene. Journal of Analytical and Applied Pyrolysis, 2021, 156, 105150.	2.6	28
18	Hierarchical pore configuration in activated coke boosting direct desorption of desulfurization product H2SO4: A combined experimental and computational investigation. Fuel, 2021, 298, 120697.	3.4	5

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19	Janus graphite felt cathode dramatically enhance the H2O2 yield from O2 electroreduction by the hydrophilicity-hydrophobicity regulation. Chemosphere, 2021, 278, 130382.	4.2	28
20	Synthesis and application in oxygen reduction reaction of N-doping porous graphitic carbon from biomass waste. Fuel Processing Technology, 2021, 224, 107028.	3.7	15
21	Natural template derived porous carbon nanoplate architectures with tunable pore configuration for a full-carbon sodium-ion capacitor. Journal of Materials Chemistry A, 2021, 9, 23607-23618.	5.2	19
22	A green trace K2CO3 induced catalytic activation strategy for developing coal-converted activated carbon as advanced candidate for CO2 adsorption and supercapacitors. Chemical Engineering Journal, 2020, 383, 123205.	6.6	92
23	Enhanced SO2 fluidized adsorption dynamic by hierarchically porous activated coke. Journal of the Energy Institute, 2020, 93, 802-810.	2.7	16
24	Development of dense Ca-based, Al-stabilized composites with high volumetric energy density for thermochemical energy storage of concentrated solar power. Energy Conversion and Management, 2020, 221, 113201.	4.4	34
25	In-situ catalytic conversion of coal pyrolysis gas to nanoporous carbon rods and superior sodium ion storage performance. Fuel, 2020, 281, 118782.	3.4	13
26	Graphitic porous carbon with multiple structural merits for high-performance organic supercapacitor. Journal of Power Sources, 2020, 477, 228759.	4.0	39
27	A facile trace potassium assisted catalytic activation strategy regulating pore topology of activated coke for combined removal of toluene/SO2/NO. Chemical Engineering Journal, 2020, 389, 124262.	6.6	35
28	The change of hydrogen bonding network during adsorption of multi-water molecules in lignite: Quantitative analysis based on AIM and DFT. Materials Chemistry and Physics, 2020, 247, 122863.	2.0	9
29	Hierarchical porous carbon derived from wood tar using crab as the template: Performance on supercapacitor. Journal of Power Sources, 2020, 455, 227982.	4.0	122
30	Producing elemental sulfur from SO2 by calcium loaded activated coke: Enhanced activity and selectivity. Chemical Engineering Journal, 2020, 401, 126022.	6.6	27
31	Ultraviolet Raman spectra: The reasonable method of evaluating coal pyrolysis graphitization. AIP Advances, 2020, 10, .	0.6	10
32	A new insight into the role of coal adsorbed water in low-temperature oxidation: Enhanced·OH radical generation. Combustion and Flame, 2019, 208, 27-36.	2.8	42
33	A new insight into SO ₂ low-temperature catalytic oxidation in porous carbon materials: non-dissociated O ₂ molecule as oxidant. Catalysis Science and Technology, 2019, 9, 4327-4338.	2.1	20
34	Effect of pore hierarchy and pore size on the combined adsorption of SO2 and toluene in activated coke. Fuel, 2019, 257, 116090.	3.4	33
35	Oxygen Functional Group Modification of Cellulose-Derived Hard Carbon for Enhanced Sodium Ion Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 18554-18565.	3.2	72
36	Hierarchical porous carbon sheets with compressed framework and optimized pore configuration for high-rate and long-term sodium and lithium ions storage. Carbon, 2019, 155, 166-175.	5.4	26

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37	A new insight into the SO ₂ adsorption behavior of oxidized carbon materials using model adsorbents and DFT calculations. Physical Chemistry Chemical Physics, 2019, 21, 9181-9188.	1.3	46
38	Novel method for regeneration/reactivation of spent dolomite-based sorbents from calcium looping cycles. Chemical Engineering Journal, 2019, 360, 148-156.	6.6	20
39	Broadening the pore size of coal-based activated carbon <i>via</i> a washing-free chem-physical activation method for high-capacity dye adsorption. RSC Advances, 2018, 8, 14488-14499.	1.7	51
40	Adjusting the Porosity of Coal-Based Activated Carbons Based on a Catalytic Physical Activation Process for Gas and Liquid Adsorption. Energy & amp; Fuels, 2018, 32, 1255-1264.	2.5	46
41	In Situ High-Level Nitrogen Doping into Carbon Nanospheres and Boosting of Capacitive Charge Storage in Both Anode and Cathode for a High-Energy 4.5 V Full-Carbon Lithium-Ion Capacitor. Nano Letters, 2018, 18, 3368-3376.	4.5	163
42	Converting biomass waste into microporous carbon with simultaneously high surface area and carbon purity as advanced electrochemical energy storage materials. Applied Surface Science, 2018, 436, 486-494.	3.1	58
43	Introducing catalytic gasification into chemical activation for the conversion of natural coal into hierarchically porous carbons with broadened pore size for enhanced supercapacitive utilization. RSC Advances, 2018, 8, 37880-37889.	1.7	9
44	Strongly coupled calcium carbonate/antioxidative graphite nanosheets composites with high cycling stability for thermochemical energy storage. Applied Energy, 2018, 231, 412-422.	5.1	41
45	In Situ Doping Boron Atoms into Porous Carbon Nanoparticles with Increased Oxygen Graft Enhances both Affinity and Durability toward Electrolyte for Greatly Improved Supercapacitive Performance. Advanced Functional Materials, 2018, 28, 1804190.	7.8	149
46	Pore Reorganization of Porous Carbon during Trace Calcium-Catalyzed Coal Activation for Adsorption Applications. Energy & amp; Fuels, 2018, 32, 9191-9201.	2.5	21
47	A high-rate and ultrastable anode enabled by boron-doped nanoporous carbon spheres for high-power and long life lithium ion capacitors. Materials Today Energy, 2018, 9, 428-439.	2.5	19
48	A novel melt infiltration method promoting porosity development of low-rank coal derived activated carbon as supercapacitor electrode materials. Journal of the Taiwan Institute of Chemical Engineers, 2018, 91, 588-596.	2.7	35
49	The effect of nitrogen-containing functional groups on SO2 adsorption on carbon surface: Enhanced physical adsorption interactions. Surface Science, 2018, 677, 78-82.	0.8	66
50	A high performance lithium ion capacitor achieved by the integration of a Sn-C anode and a biomass-derived microporous activated carbon cathode. Scientific Reports, 2017, 7, 40990.	1.6	79
51	Regenerative Polysulfide-Scavenging Layers Enabling Lithium–Sulfur Batteries with High Energy Density and Prolonged Cycling Life. ACS Nano, 2017, 11, 2697-2705.	7.3	132
52	Effect of the presence of NaCl vapour on indirect sulphation of limestone. Fuel Processing Technology, 2017, 160, 39-46.	3.7	0
53	Trace Na ₂ CO ₃ Addition to Limestone Inducing High-Capacity SO ₂ Capture. Environmental Science & Technology, 2017, 51, 12692-12698.	4.6	11
54	Microwave Irradiation Induced High-Efficiency Regeneration for Desulfurized Activated Coke: A Comparative Study with Conventional Thermal Regeneration. Energy & Fuels, 2017, 31, 9693-9702.	2.5	41

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55	High performance aqueous supercapacitor based on highly nitrogen-doped carbon nanospheres with unimodal mesoporosity. Journal of Power Sources, 2017, 337, 189-196.	4.0	99
56	Confined growth of small ZnO nanoparticles in a nitrogen-rich carbon framework: Advanced anodes for long-life Li-ion batteries. Carbon, 2017, 113, 46-54.	5.4	55
57	Post Iron Decoration of Mesoporous Nitrogenâ€Doped Carbon Spheres for Efficient Electrochemical Oxygen Reduction. Advanced Energy Materials, 2017, 7, 1701154.	10.2	65
58	Robust iron nanoparticles with graphitic shells for high-performance Ni-Fe battery. Nano Energy, 2016, 30, 217-224.	8.2	76
59	Nitrogen-rich carbon spheres made by a continuous spraying process for high-performance supercapacitors. Nano Research, 2016, 9, 3209-3221.	5.8	78
60	High-energy Li-ion hybrid supercapacitor enabled by a long life N-rich carbon based anode. Electrochimica Acta, 2016, 213, 626-632.	2.6	37
61	One-step ammonia activation of Zhundong coal generating nitrogen-doped microporous carbon for gas adsorption and energy storage. Carbon, 2016, 109, 747-754.	5.4	75
62	Porous carbon with a large surface area and an ultrahigh carbon purity via templating carbonization coupling with KOH activation as excellent supercapacitor electrode materials. Applied Surface Science, 2016, 387, 857-863.	3.1	70
63	Highlighting the role of nitrogen doping in enhancing CO ₂ uptake onto carbon surfaces: a combined experimental and computational analysis. Journal of Materials Chemistry A, 2016, 4, 18248-18252.	5.2	48
64	Controllable nitrogen introduction into porous carbon with porosity retaining for investigating nitrogen doping effect on SO 2 adsorption. Chemical Engineering Journal, 2016, 290, 116-124.	6.6	84
65	Fluorine-rich nanoporous carbon with enhanced surface affinity in organic electrolyte for high-performance supercapacitors. Nano Energy, 2016, 21, 80-89.	8.2	89
66	Size-controllable templates for the synthesis of porous carbon with tunable pore configurations. Materials Letters, 2016, 175, 56-59.	1.3	3
67	The effect of functional groups on the SO 2 adsorption on carbon surface I: A new insight into noncovalent interaction between SO 2 molecule and acidic oxygen-containing groups. Applied Surface Science, 2016, 369, 552-557.	3.1	45
68	A systematic investigation of SO2 removal dynamics by coal-based activated cokes: The synergic enhancement effect of hierarchical pore configuration and gas components. Applied Surface Science, 2015, 357, 1895-1901.	3.1	73
69	Adsorption of SO2 by typical carbonaceous material: a comparative study of carbon nanotubes and activated carbons. Adsorption, 2013, 19, 959-966.	1.4	60
70	Preparation of activated carbons for SO2 adsorption by CO2 and steam activation. Journal of the Taiwan Institute of Chemical Engineers, 2011, 43, 112-112.	2.7	32
71	Mechanism of SO2 adsorption and desorption on commercial activated coke. Korean Journal of Chemical Engineering, 2011, 28, 2218-2225.	1.2	35
72	Preparation and characterization of activated carbons for SO2 adsorption from Taixi anthracite by physical activation with steam. Korean Journal of Chemical Engineering, 2011, 28, 2344-2350.	1.2	13

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73	Preparation and Characterization of Activated Carbons for SO2 Adsorption from Taixi Anthracite. , 2011, , .		0