

# Dengsong Zhang

## List of Publications by Year in descending order

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236  
papers

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5261

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Selective Catalytic Reduction of NO <sub>x</sub> with NH <sub>3</sub> by Using Novel Catalysts: State of the Art and Future Prospects. <i>Chemical Reviews</i> , 2019, 119, 10916-10976.	23.0	1,003
2	Rational Design of High-Performance DeNO <sub>x</sub> Catalysts Based on Mn <sub>3</sub> Co <sub>3</sub> O <sub>4</sub> Nanocages Derived from Metal-Organic Frameworks. <i>ACS Catalysis</i> , 2014, 4, 1753-1763.	5.5	466
3	Morphology Dependence of Catalytic Properties of Ni/CeO <sub>2</sub> Nanostructures for Carbon Dioxide Reforming of Methane. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10009-10016.	1.5	453
4	Shape-controlled synthesis and catalytic application of ceria nanomaterials. <i>Dalton Transactions</i> , 2012, 41, 14455.	1.6	350
5	Design of graphene-coated hollow mesoporous carbon spheres as high performance electrodes for capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4739-4750.	5.2	325
6	Enhanced capacitive deionization performance of graphene/carbon nanotube composites. <i>Journal of Materials Chemistry</i> , 2012, 22, 14696.	6.7	318
7	Mechanistic Aspects of deNO <sub>x</sub> Processing over TiO <sub>2</sub> Supported Co-Mn Oxide Catalysts: Structure-Activity Relationships and In Situ DRIFTS Analysis. <i>ACS Catalysis</i> , 2015, 5, 6069-6077.	5.5	310
8	In situ supported MnOx-CeOx on carbon nanotubes for the low-temperature selective catalytic reduction of NO with NH <sub>3</sub> . <i>Nanoscale</i> , 2013, 5, 1127.	2.8	300
9	Three-dimensional macroporous graphene architectures as high performance electrodes for capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11778.	5.2	262
10	N, P, S co-doped hollow carbon polyhedra derived from MOF-based core-shell nanocomposites for capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15245-15252.	5.2	260
11	Synthesis of CeO <sub>2</sub> Nanorods via Ultrasonication Assisted by Polyethylene Glycol. <i>Inorganic Chemistry</i> , 2007, 46, 2446-2451.	1.9	244
12	Graphene-based materials for capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13907-13943.	5.2	242
13	Three-dimensional graphene-based hierarchically porous carbon composites prepared by a dual-template strategy for capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12334.	5.2	232
14	Low-temperature selective catalytic reduction of NO with NH <sub>3</sub> over nanoflaky MnOx on carbon nanotubes in situ prepared via a chemical bath deposition route. <i>Nanoscale</i> , 2013, 5, 9199.	2.8	231
15	Enhanced capacitive deionization of graphene/mesoporous carbon composites. <i>Nanoscale</i> , 2012, 4, 5440.	2.8	230
16	Design of meso-TiO <sub>2</sub> @MnOx-CeOx/CNTs with a core-shell structure as DeNO <sub>x</sub> catalysts: promotion of activity, stability and SO <sub>2</sub> -tolerance. <i>Nanoscale</i> , 2013, 5, 9821.	2.8	225
17	In Situ DRIFTS Investigation of the Low-Temperature Reaction Mechanism over Mn-Doped Co <sub>3</sub> O <sub>4</sub> for the Selective Catalytic Reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2015, 119, 22924-22933.	1.5	224
18	Template-Free Synthesis, Controlled Conversion, and CO Oxidation Properties of CeO <sub>2</sub> Nanorods, Nanotubes, Nanowires, and Nanocubes. <i>European Journal of Inorganic Chemistry</i> , 2008, 2429-2436.	1.0	222

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19	CTAB assisted hydrothermal synthesis, controlled conversion and CO oxidation properties of CeO <sub>2</sub> nanoplates, nanotubes, and nanorods. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1298-1306.	1.4	220
20	Immobilizing Ni nanoparticles to mesoporous silica with size and location control via a polyol-assisted route for coking- and sintering-resistant dry reforming of methane. <i>Chemical Communications</i> , 2014, 50, 7250-7253.	2.2	208
21	Improved NO <sub>x</sub> Reduction in the Presence of SO <sub>2</sub> by Using Fe <sub>2</sub> O <sub>3</sub> -Promoted Halloysite-Supported CeO <sub>2</sub> WO <sub>3</sub> Catalysts. <i>Environmental Science &amp; Technology</i> , 2019, 53, 938-945.	4.6	206
22	Silicon/Carbon Composite Anode Materials for Lithium-Ion Batteries. <i>Electrochemical Energy Reviews</i> , 2019, 2, 149-198.	13.1	205
23	Investigation of the Facet-Dependent Catalytic Performance of Fe <sub>2</sub> O <sub>3</sub> /CeO <sub>2</sub> for the Selective Catalytic Reduction of NO with NH <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2016, 120, 1523-1533.	1.5	204
24	Fe <sub>2</sub> O <sub>3</sub> @CeO <sub>2</sub> @Al <sub>2</sub> O <sub>3</sub> Nanoarrays on Al-Mesh as SO <sub>2</sub> -Tolerant Monolith Catalysts for NO <sub>x</sub> Reduction by NH <sub>3</sub> . <i>Environmental Science &amp; Technology</i> , 2019, 53, 5946-5956.	4.6	195
25	Design of multi-shell Fe <sub>2</sub> O <sub>3</sub> @MnO <sub>x</sub> @CNTs for the selective catalytic reduction of NO with NH <sub>3</sub> : improvement of catalytic activity and SO <sub>2</sub> tolerance. <i>Nanoscale</i> , 2016, 8, 3588-3598.	2.8	181
26	Porous Ni-Mn oxide nanosheets in situ formed on nickel foam as 3D hierarchical monolith de-NO <sub>x</sub> catalysts. <i>Nanoscale</i> , 2014, 6, 7346-7353.	2.8	178
27	Morphology-Dependent Properties of MnO <sub>x</sub> /ZrO <sub>2</sub> @CeO <sub>2</sub> Nanostructures for the Selective Catalytic Reduction of NO with NH <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2013, 117, 10502-10511.	1.5	176
28	Grafting sulfonic and amine functional groups on 3D graphene for improved capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5303-5313.	5.2	175
29	SO <sub>2</sub> -Tolerant Selective Catalytic Reduction of NO <sub>x</sub> over Meso-TiO <sub>2</sub> @Fe <sub>2</sub> O <sub>3</sub> @Al <sub>2</sub> O <sub>3</sub> Metal-Based Monolith Catalysts. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6462-6473.	4.6	171
30	Boosting Toluene Combustion by Engineering Co-O Strength in Cobalt Oxide Catalysts. <i>Environmental Science &amp; Technology</i> , 2020, 54, 10342-10350.	4.6	165
31	Nitrogen-doped porous carbon derived from a bimetallic metal-organic framework as highly efficient electrodes for flow-through deionization capacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10858-10868.	5.2	164
32	Capacitive Deionization of Saline Water by Using MoS <sub>2</sub> @Graphene Hybrid Electrodes with High Volumetric Adsorption Capacity. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12668-12676.	4.6	162
33	Cation and anion Co-doping synergy to improve structural stability of Li- and Mn-rich layered cathode materials for lithium-ion batteries. <i>Nano Energy</i> , 2019, 57, 157-165.	8.2	162
34	Separation and recovery of heavy metal ions and salt ions from wastewater by 3D graphene-based asymmetric electrodes via capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14748-14757.	5.2	161
35	High performance ordered mesoporous carbon/carbon nanotube composite electrodes for capacitive deionization. <i>Journal of Materials Chemistry</i> , 2012, 22, 6603.	6.7	159
36	Rational design and in situ fabrication of MnO <sub>2</sub> @NiCo <sub>2</sub> O <sub>4</sub> nanowire arrays on Ni foam as high-performance monolith de-NO <sub>x</sub> catalysts. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11543-11553.	5.2	157

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37	Highly dispersed CeO <sub>2</sub> on carbon nanotubes for selective catalytic reduction of NO with NH <sub>3</sub> . Catalysis Science and Technology, 2013, 3, 803-811.	2.1	151
38	Promotional effects of zirconium doped CeVO <sub>4</sub> for the low-temperature selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> . Applied Catalysis B: Environmental, 2016, 183, 269-281.	10.8	151
39	Three-dimensional hierarchical porous carbon with a bimodal pore arrangement for capacitive deionization. Journal of Materials Chemistry, 2012, 22, 23835.	6.7	149
40	Scale-Activity Relationship of MnO <sub>x</sub> -FeO <sub>y</sub> Nanocage Catalysts Derived from Prussian Blue Analogues for Low-Temperature NO Reduction: Experimental and DFT Studies. ACS Applied Materials & Interfaces, 2017, 9, 2581-2593.	4.0	149
41	Comparative study of 3D ordered macroporous Ce <sub>0.75</sub> Zr <sub>0.2</sub> M <sub>0.05</sub> O <sub>2</sub> (M = Fe, Cu, Mn, Co) for selective catalytic reduction of NO with NH <sub>3</sub> . Catalysis Science and Technology, 2014, 4, 93-101.	2.1	146
42	Design and synthesis of NiCe@m-SiO <sub>2</sub> yolk-shell framework catalysts with improved coke- and sintering-resistance in dry reforming of methane. International Journal of Hydrogen Energy, 2016, 41, 2447-2456.	3.8	146
43	Facet-Activity Relationship of TiO <sub>2</sub> in Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Nanocatalysts for Selective Catalytic Reduction of NO with NH <sub>3</sub> : <i>In Situ</i> DRIFTS and DFT Studies. Journal of Physical Chemistry C, 2017, 121, 4970-4979.	1.5	144
44	Graphene prepared via a novel pyridine-thermal strategy for capacitive deionization. Journal of Materials Chemistry, 2012, 22, 23745.	6.7	142
45	Structure-Activity Relationships of NiO on CeO <sub>2</sub> Nanorods for the Selective Catalytic Reduction of NO with NH <sub>3</sub> : Experimental and DFT Studies. Journal of Physical Chemistry C, 2014, 118, 9612-9620.	1.5	142
46	N,P-Codoped Meso-/Microporous Carbon Derived from Biomass Materials via a Dual-Activation Strategy as High-Performance Electrodes for Deionization Capacitors. ACS Sustainable Chemistry and Engineering, 2017, 5, 5810-5819.	3.2	138
47	<i>In Situ</i> Expanding Pores of Dodecahedron-like Carbon Frameworks Derived from MOFs for Enhanced Capacitive Deionization. ACS Applied Materials & Interfaces, 2017, 9, 15068-15078.	4.0	134
48	Capacitive Removal of Heavy Metal Ions from Wastewater <i>via</i> an Electro-Adsorption and Electro-Reaction Coupling Process. Environmental Science & Technology, 2021, 55, 3333-3340.	4.6	129
49	High capacity and high rate capability of nitrogen-doped porous hollow carbon spheres for capacitive deionization. Applied Surface Science, 2016, 369, 460-469.	3.1	126
50	Methane dry reforming over boron nitride interface-confined and LDHs-derived Ni catalysts. Applied Catalysis B: Environmental, 2019, 252, 86-97.	10.8	126
51	Graphene-like carbon nanosheets prepared by a Fe-catalyzed glucose-blowing method for capacitive deionization. Journal of Materials Chemistry A, 2015, 3, 5934-5941.	5.2	122
52	<i>In Situ</i> DRIFTS Investigation of Promotional Effects of Tungsten on MnO <sub>x</sub> -CeO <sub>2</sub> /meso-TiO <sub>2</sub> Catalysts for NO <sub>x</sub> Reduction. Journal of Physical Chemistry C, 2017, 121, 25243-25254.	1.5	122
53	Improved capacitive deionization by using 3D intercalated graphene sheet-sphere nanocomposite architectures. Environmental Science: Nano, 2018, 5, 980-991.	2.2	121
54	Carbon nanotube assisted synthesis of CeO <sub>2</sub> nanotubes. Journal of Solid State Chemistry, 2007, 180, 654-660.	1.4	120

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55	N,P,S-Codoped Hierarchically Porous Carbon Spheres with Well-Balanced Gravimetric/Volumetric Capacitance for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5265-5272.	3.2	120
56	Nanodiamond-decorated ZnO catalysts with enhanced photocorrosion-resistance for photocatalytic degradation of gaseous toluene. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117880.	10.8	120
57	Capacitive deionization of saline water using sandwich-like nitrogen-doped graphene composites via a self-assembling strategy. <i>Environmental Science: Nano</i> , 2018, 5, 2722-2730.	2.2	118
58	Defect-induced efficient dry reforming of methane over two-dimensional Ni/h-boron nitride nanosheet catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 51-60.	10.8	118
59	Facile and template-free fabrication of mesoporous 3D nanosphere-like Mn <sub>x</sub> Co <sub>3x</sub> O <sub>4</sub> as highly effective catalysts for low temperature SCR of NO <sub>x</sub> with NH <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , 2018, 6, 2952-2963.	5.2	116
60	Enhanced catalytic performance of V <sub>2</sub> O <sub>5</sub> ·WO <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> microspheres for selective catalytic reduction of NO by NH <sub>3</sub> . <i>Catalysis Science and Technology</i> , 2013, 3, 191-199.	2.1	113
61	Unraveling the effects of the coordination number of Mn over Î±-MnO <sub>2</sub> catalysts for toluene oxidation. <i>Chemical Engineering Journal</i> , 2020, 396, 125192.	6.6	110
62	Tuning the dimensions and structures of nitrogen-doped carbon nanomaterials derived from sacrificial g-C <sub>3</sub> N <sub>4</sub> /metal-organic frameworks for enhanced electrocatalytic oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5752-5761.	5.2	108
63	Trace-Fe-Enhanced Capacitive Deionization of Saline Water by Boosting Electron Transfer of Electro-Adsorption Sites. <i>Environmental Science &amp; Technology</i> , 2020, 54, 8411-8419.	4.6	108
64	Design of modular catalysts derived from NiMgAl-LDH@m-SiO <sub>2</sub> with dual confinement effects for dry reforming of methane. <i>Chemical Communications</i> , 2013, 49, 6770.	2.2	107
65	Comparative Electroadsorption Study of Mesoporous Carbon Electrodes with Various Pore Structures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17068-17076.	1.5	106
66	Insights into the stable layered structure of a Li-rich cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19738-19744.	5.2	105
67	In situ creating interconnected pores across 3D graphene architectures and their application as high performance electrodes for flow-through deionization capacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4908-4919.	5.2	104
68	Creating 3D Hierarchical Carbon Architectures with Micro-, Meso-, and Macropores via a Simple Self-Blowing Strategy for a Flow-through Deionization Capacitor. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18027-18035.	4.0	103
69	Coke- and sintering-resistant monolithic catalysts derived from in situ supported hydrotalcite-like films on Al wires for dry reforming of methane. <i>Nanoscale</i> , 2013, 5, 2659.	2.8	102
70	Cu-doped CeO <sub>2</sub> spheres: Synthesis, characterization, and catalytic activity. <i>Catalysis Communications</i> , 2012, 26, 164-168.	1.6	101
71	Poisoning-Resistant NO <sub>x</sub> Reduction in the Presence of Alkaline and Heavy Metals over H-SAPO-34-Supported Ce-Promoted Cu-Based Catalysts. <i>Environmental Science &amp; Technology</i> , 2020, 54, 6396-6405.	4.6	101
72	Ni nanoparticles immobilized Ce-modified mesoporous silica via a novel sublimation-deposition strategy for catalytic reforming of methane with carbon dioxide. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9685-9695.	3.8	100

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73	Combination of Experimental and Theoretical Investigations of MnO <sub>x</sub> /Ce <sub>0.9</sub> Zr <sub>0.1</sub> O <sub>2</sub> Nanorods for Selective Catalytic Reduction of NO with Ammonia. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9999-10006.	1.5	99
74	Photocatalytic preparation of nanostructured MnO <sub>2</sub> -(Co <sub>3</sub> O <sub>4</sub> )/TiO <sub>2</sub> hybrids: The formation mechanism and catalytic application in SCR deNO <sub>x</sub> reaction. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 778-788.	10.8	96
75	Promotional effects of B-terminated defective edges of Ni/boron nitride catalysts for coking- and sintering-resistant dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118692.	10.8	96
76	In situ synthesis of 3D flower-like NiMnFe mixed oxides as monolith catalysts for selective catalytic reduction of NO with NH <sub>3</sub> . <i>Chemical Communications</i> , 2012, 48, 10645.	2.2	95
77	Preparation and modification of carbon nanotubes. <i>Materials Letters</i> , 2005, 59, 4044-4047.	1.3	94
78	Three-dimensional micro/mesoporous carbon composites with carbon nanotube networks for capacitive deionization. <i>Applied Surface Science</i> , 2013, 282, 965-973.	3.1	94
79	Unraveling the Unexpected Offset Effects of Cd and SO <sub>2</sub> Deactivation over CeO <sub>2</sub> -WO <sub>3</sub> /TiO <sub>2</sub> Catalysts for NO Reduction. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7697-7705.	4.6	91
80	A facile strategy for the fast construction of porous graphene frameworks and their enhanced electrosorption performance. <i>Chemical Communications</i> , 2017, 53, 7465-7468.	2.2	89
81	Hexagonal boron nitride supported mesoSiO <sub>2</sub> -confined Ni catalysts for dry reforming of methane. <i>Chemical Communications</i> , 2017, 53, 7549-7552.	2.2	89
82	Improved NO <sub>x</sub> reduction in the presence of alkali metals by using hollandite Mn-Ti oxide promoted Cu-SAPO-34 catalysts. <i>Environmental Science: Nano</i> , 2018, 5, 1408-1419.	2.2	86
83	A general strategy for the in situ decoration of porous Mn-Co bi-metal oxides on metal mesh/foam for high performance de-NO <sub>x</sub> monolith catalysts. <i>Nanoscale</i> , 2017, 9, 5648-5657.	2.8	84
84	Removal of ions from saline water using N, P co-doped 3D hierarchical carbon architectures via capacitive deionization. <i>Environmental Science: Nano</i> , 2018, 5, 2337-2345.	2.2	83
85	MnOx-CeOx/CNTs pyridine-thermally prepared via a novel in situ deposition strategy for selective catalytic reduction of NO with NH <sub>3</sub> . <i>RSC Advances</i> , 2013, 3, 8811.	1.7	82
86	Selective catalytic oxidation of NH <sub>3</sub> over noble metal-based catalysts: state of the art and future prospects. <i>Catalysis Science and Technology</i> , 2020, 10, 5792-5810.	2.1	82
87	NaCl adsorption in multi-walled carbon nanotubes. <i>Materials Letters</i> , 2005, 59, 1989-1992.	1.3	81
88	A highly reactive catalyst for CO oxidation: CeO <sub>2</sub> nanotubes synthesized using carbon nanotubes as removable templates. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 193-200.	2.2	81
89	Effect of nanoparticles on the performance of thermally conductive epoxy adhesives. <i>Polymer Engineering and Science</i> , 2010, 50, 1809-1819.	1.5	81
90	Highly dispersed V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> modified with transition metals (Cu, Fe, Mn, Co) as efficient catalysts for the selective reduction of NO with NH <sub>3</sub> . <i>Chinese Journal of Catalysis</i> , 2015, 36, 1886-1899.	6.9	81

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91	Selective Capacitive Removal of Pb <sup>2+</sup> from Wastewater over Redox-Active Electrodes. Environmental Science & Technology, 2021, 55, 730-737.	4.6	81
92	High-Performance Microsized Si Anodes for Lithium-Ion Batteries: Insights into the Polymer Configuration Conversion Mechanism. Advanced Materials, 2022, 34, e2109658.	11.1	81
93	Highly active Ce <sup>1+</sup> /Cu O <sub>2</sub> nanocomposite catalysts for the low temperature oxidation of CO. Applied Surface Science, 2011, 257, 7551-7559.	3.1	79
94	Self-Protected CeO <sub>2</sub> @SnO <sub>2</sub> @SO <sub>4</sub> <sup>2-</sup> /TiO <sub>2</sub> Catalysts with Extraordinary Resistance to Alkali and Heavy Metals for NO <sub>x</sub> Reduction. Environmental Science & Technology, 2020, 54, 12752-12760.	4.6	79
95	SO <sub>2</sub> -Tolerant NO <sub>x</sub> Reduction by Marvelously Suppressing SO <sub>2</sub> Adsorption over Fe <sup>3+</sup> /Ce <sup>1+</sup> /VO <sub>4</sub> Catalysts. Environmental Science & Technology, 2020, 54, 14066-14075.	4.6	76
96	Preparation and desalination performance of multiwall carbon nanotubes. Materials Chemistry and Physics, 2006, 97, 415-419.	2.0	74
97	Morphology-dependent performance of Zr <sup>4+</sup> /CeVO <sub>4</sub> /TiO <sub>2</sub> for selective catalytic reduction of NO with NH <sub>3</sub> . Catalysis Science and Technology, 2016, 6, 5543-5553.	2.1	74
98	Design of orderly carbon coatings for SiO anodes promoted by TiO <sub>2</sub> toward high performance lithium-ion battery. Chemical Engineering Journal, 2018, 338, 488-495.	6.6	72
99	Fe <sub>2</sub> O <sub>3</sub> nanoparticles anchored in situ on carbon nanotubes via an ethanol-thermal strategy for the selective catalytic reduction of NO with NH <sub>3</sub> . Catalysis Science and Technology, 2015, 5, 438-446.	2.1	71
100	Promotional effect of the TiO <sub>2</sub> (001) facet in the selective catalytic reduction of NO with NH <sub>3</sub> : in situ DRIFTS and DFT studies. Catalysis Science and Technology, 2016, 6, 8516-8524.	2.1	71
101	Dual Promotional Effects of TiO <sub>2</sub> -Decorated Acid-Treated MnO <sub>x</sub> Octahedral Molecular Sieve Catalysts for Alkali-Resistant Reduction of NO <sub>x</sub> . ACS Applied Materials & Interfaces, 2019, 11, 11507-11517.	4.0	70
102	Alkali-Resistant NO <sub>x</sub> Reduction over SCR Catalysts via Boosting NH <sub>3</sub> Adsorption Rates by In Situ Constructing the Sacrificed Sites. Environmental Science & Technology, 2020, 54, 13314-13321.	4.6	70
103	Creating Nitrogen-Doped Hollow Multiyolk@Shell Carbon as High Performance Electrodes for Flow-Through Deionization Capacitors. ACS Sustainable Chemistry and Engineering, 2017, 5, 3329-3338.	3.2	69
104	Selective Capacitive Removal of Heavy Metal Ions from Wastewater over Lewis Base Sites of S-Doped Fe <sup>3+</sup> /N <sup>3-</sup> /C Cathodes via an Electro-Adsorption Process. Environmental Science & Technology, 2021, 55, 7665-7673.	4.6	68
105	High Salt Removal Capacity of Metal-Organic Gel Derived Porous Carbon for Capacitive Deionization. ACS Sustainable Chemistry and Engineering, 2017, 5, 11637-11644.	3.2	67
106	Coke-resistant defect-confined Ni-based nanosheet-like catalysts derived from halloysites for CO <sub>2</sub> reforming of methane. Nanoscale, 2018, 10, 10528-10537.	2.8	67
107	A MnN <sub>4</sub> moiety embedded graphene as a magnetic gas sensor for CO detection: A first principle study. Applied Surface Science, 2019, 473, 820-827.	3.1	67
108	Confining Redox Electrolytes in Functionalized Porous Carbon with Improved Energy Density for Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 42494-42502.	4.0	66

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109	Promotional effects of Fe on manganese oxide octahedral molecular sieves for alkali-resistant catalytic reduction of NO <sub>x</sub> : XAFS and in situ DRIFTS study. <i>Chemical Engineering Journal</i> , 2020, 381, 122764.	6.6	66
110	Alkali and Phosphorus Resistant Zeolite-like Catalysts for NO <sub>x</sub> Reduction by NH <sub>3</sub> . <i>Environmental Science &amp; Technology</i> , 2020, 54, 9132-9141.	4.6	66
111	Removal of NaCl from saltwater solutions using micro/mesoporous carbon sheets derived from watermelon peel via deionization capacitors. <i>RSC Advances</i> , 2017, 7, 4297-4305.	1.7	64
112	Deep insight into the structure-activity relationship of Nb modified SnO <sub>2</sub> -CeO <sub>2</sub> catalysts for low-temperature selective catalytic reduction of NO by NH <sub>3</sub> . <i>Catalysis Science and Technology</i> , 2017, 7, 502-514.	2.1	63
113	Efficient removal of metal ions by capacitive deionization with straw waste derived graphitic porous carbon nanosheets. <i>Environmental Science: Nano</i> , 2020, 7, 317-326.	2.2	63
114	Delocalization Effect Promoted the Indoor Air Purification via Directly Unlocking the Ring-Opening Pathway of Toluene. <i>Environmental Science &amp; Technology</i> , 2020, 54, 9693-9701.	4.6	63
115	Enhanced capacitive deionization of saline water using N-doped rod-like porous carbon derived from dual-ligand metal-organic frameworks. <i>Environmental Science: Nano</i> , 2020, 7, 926-937.	2.2	63
116	High-Performance Binary Mo-Ni Catalysts for Efficient Carbon Removal during Carbon Dioxide Reforming of Methane. <i>ACS Catalysis</i> , 2021, 11, 12087-12095.	5.5	61
117	Cooperatively enhanced coking resistance via boron nitride coating over Ni-based catalysts for dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2022, 302, 120859.	10.8	61
118	Creating graphene-like carbon layers on SiO anodes via a layer-by-layer strategy for lithium-ion battery. <i>Chemical Engineering Journal</i> , 2018, 347, 273-279.	6.6	60
119	NaCl adsorption in multi-walled carbon nanotube/active carbon combination electrode. <i>Chemical Engineering Science</i> , 2006, 61, 428-433.	1.9	59
120	Creating Sandwich-like Ti <sub>3</sub> C <sub>2</sub> /TiO <sub>2</sub> /rGO as Anode Materials with High Energy and Power Density for Li-Ion Hybrid Capacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15394-15403.	3.2	57
121	Capacitive deionization of saline water using graphene nanosphere decorated N-doped layered mesoporous carbon frameworks. <i>Environmental Science: Nano</i> , 2019, 6, 3442-3453.	2.2	55
122	Coralloid-like Nanostructured c-nSi/SiO <sub>x</sub> @C <sub>y</sub> Anodes for High Performance Lithium Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 28464-28472.	4.0	54
123	Capacitive Removal of Fluoride Ions via Creating Multiple Capture Sites in a Modulory Heterostructure. <i>Environmental Science &amp; Technology</i> , 2021, 55, 11979-11986.	4.6	54
124	In situ DRIFTS investigation of the reaction mechanism over MnO <sub>x</sub> -MO <sub>y</sub> /Ce <sub>0.75</sub> Zr <sub>0.25</sub> O <sub>2</sub> (M = Fe, Co, Ni). <i>Journal of Environmental Science</i> , 2019, 101, 102-110.	3.1	53
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126	Alkali-Resistant Catalytic Reduction of NO <sub>x</sub> by Using Ce-B Alkali-Capture Sites. <i>Environmental Science &amp; Technology</i> , 2021, 55, 11970-11978.	4.6	51



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128	Facile synthesis, characterization and low-temperature catalytic performance of Au/CeO <sub>2</sub> nanorods. <i>Materials Letters</i> , 2009, 63, 2132-2135.	1.3	48
129	SO <sub>2</sub> -Tolerant Catalytic Reduction of NO <sub>x</sub> via Tailoring Electron Transfer between Surface Iron Sulfate and Subsurface Ceria. <i>Environmental Science &amp; Technology</i> , 2022, 56, 5840-5848.	4.6	48
130	Influence of diameter of carbon nanotubes mounted in flow-through capacitors on removal of NaCl from salt water. <i>Journal of Materials Science</i> , 2007, 42, 2471-2475.	1.7	47
131	SO <sub>2</sub> -Induced Alkali Resistance of FeVO <sub>4</sub> /TiO <sub>2</sub> Catalysts for NO <sub>x</sub> Reduction. <i>Environmental Science &amp; Technology</i> , 2022, 56, 605-613.	4.6	47
132	Pyridine-thermal synthesis and high catalytic activity of CeO <sub>2</sub> /CuO/CNT nanocomposites. <i>Applied Surface Science</i> , 2010, 256, 6795-6800.	3.1	45
133	Precise Al <sub>2</sub> O <sub>3</sub> Coating on LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> by Atomic Layer Deposition Restrains the Shuttle Effect of Transition Metals in Li-Ion Capacitors. <i>Chemical Engineering Journal</i> , 2020, 401, 126138.	6.6	45
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137	Ceria nanospindles: Template-free solvothermal synthesis and shape-dependent catalytic activity. <i>Applied Surface Science</i> , 2011, 257, 10161-10167.	3.1	42
138	Self-plied and twist-stable carbon nanotube yarn artificial muscles driven by organic solvent adsorption. <i>Nanoscale</i> , 2018, 10, 8180-8186.	2.8	42
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140	Large-Scale and Low-Cost Motivation of Nitrogen-Doped Commercial Activated Carbon for High-Energy-Density Supercapacitor. <i>ACS Applied Energy Materials</i> , 2019, 2, 4234-4243.	2.5	41
141	Synergistic Catalytic Elimination of NO <sub>x</sub> and Chlorinated Organics: Cooperation of Acid Sites. <i>Environmental Science &amp; Technology</i> , 2022, 56, 3719-3728.	4.6	41
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143	Uniform ceria nanospheres: Solvothermal synthesis, formation mechanism, size-control and catalytic activity. <i>Powder Technology</i> , 2011, 207, 35-41.	2.1	40
144	Improved NO <sub>x</sub> Reduction over Phosphate-Modified Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Catalysts via Tailoring Reaction Paths by In Situ Creating Alkali-Poisoning Sites. <i>Environmental Science &amp; Technology</i> , 2021, 55, 9276-9284.	4.6	40

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150	Ultrasonic-assisted preparation of carbon nanotube/cerium oxide composites. <i>Carbon</i> , 2006, 44, 2853-2855.	5.4	37
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153	Volume expansion restriction effects of thick TiO <sub>2</sub> /C hybrid coatings on micro-sized SiO <sub>x</sub> anode materials. <i>Chemical Engineering Journal</i> , 2020, 387, 124106.	6.6	37
154	In situ decorated MOF-derived Mn–Fe oxides on Fe mesh as novel monolithic catalysts for NO <sub>x</sub> reduction. <i>New Journal of Chemistry</i> , 2020, 44, 2357-2366.	1.4	36
155	Reflux synthesis, formation mechanism, and photoluminescence performance of monodisperse Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> nanospheres. <i>Materials Chemistry and Physics</i> , 2009, 117, 234-243.	2.0	35
156	Hydrothermal growth and characterization of length tunable porous iron vanadate one-dimensional nanostructures. <i>CrystEngComm</i> , 2014, 16, 5128-5133.	1.3	35
157	Efficient NO <sub>x</sub> Abatement over Alkali-Resistant Catalysts via Constructing Durable Dimeric VO <sub>x</sub> Species. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2647-2655.	4.6	35
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166	Study of enzyme biosensor based on carbon nanotubes modified electrode for detection of pesticides residue. <i>Chinese Chemical Letters</i> , 2008, 19, 592-594.	4.8	31
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170	NO <sub>x</sub> Reduction over Smart Catalysts with Self-Created Targeted Antipoisoning Sites. <i>Environmental Science &amp; Technology</i> , 2022, 56, 6668-6677.	4.6	31
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178	Ethylene glycol reflux synthesis of carbon nanotube/ceria core-shell nanowires. <i>Applied Surface Science</i> , 2009, 255, 5789-5794.	3.1	27
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182	Beneficial synergy of adsorption–intercalation–conversion mechanisms in Nb <sub>2</sub> O <sub>5</sub> @nitrogen-doped carbon frameworks for promoted removal of metal ions via hybrid capacitive deionization. <i>Environmental Science: Nano</i> , 2021, 8, 122-130.	2.2	27
183	Low-temperature NO <sub>x</sub> reduction over hydrothermally stable SCR catalysts by engineering low-coordinated Mn active sites. <i>Chemical Engineering Journal</i> , 2022, 442, 136182.	6.6	27
184	Controllable synthesis and highly efficient electrocatalytic oxidation performance of SnO <sub>2</sub> /CNT core-shell structures. <i>Applied Surface Science</i> , 2009, 255, 4907-4912.	3.1	26
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197	Shape and size effects of ceria nanoparticles on the impact strength of ceria/epoxy resin composites. <i>Particuology</i> , 2011, 9, 80-85.	2.0	21
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