Dengsong Zhang

List of Publications by Year in Descending Order

226 papers	14,646 citations	74 h-index	113 g-index
236 ext. papers	17,388 ext. citations	8.4 avg, IF	7.04 L-index

#	Paper	IF	Citations
226	Efficient NO Abatement over Alkali-Resistant Catalysts via Constructing Durable Dimeric VO Species.. *Environmental Science & Technology*, **2022**,	10.3	4
225	Investigating the role of dissolved inorganic and organic carbon in fluoride removal by membrane capacitive deionization. *Desalination*, **2022**, 528, 115618	10.3	1
224	Tuning Ti-Vo-Pt interfaces over Pt/TiO2 catalysts for efficient photocatalytic oxidation of toluene. *Chemical Engineering Journal*, **2022**, 431, 134209	14.7	1
223	Unraveling SO-tolerant mechanism over Fe(SO)/TiO catalysts for NO reduction.. *Journal of Environmental Sciences*, **2022**, 111, 340-350	6.4	3
222	Synergistic Catalytic Elimination of NO and Chlorinated Organics: Cooperation of Acid Sites.. *Environmental Science & Technology*, **2022**,	10.3	5
221	Unraveling the Promotion Effects of Dynamically Constructed CuOx-OH Interfacial Sites in the Selective Catalytic Oxidation of Ammonia. *ACS Catalysis*, **2022**, 12, 3955-3964	13.1	5
220	High-Performance Microsized Si Anodes for Lithium-Ion Batteries: Insights into the Polymer Configuration Conversion Mechanism.. *Advanced Materials*, **2022**, e2109658	24	7
219	Promoting dry reforming of methane catalysed by atomically-dispersed Ni over ceria-upgraded boron nitride.. *Chemistry - an Asian Journal*, **2022**,	4.5	2
218	Self-Defense Effects of Ti-Modified Attapulgite for Alkali-Resistant NO Catalytic Reduction.. *Environmental Science & Technology*, **2022**,	10.3	4
217	Alkali and Heavy Metal Copoisoning Resistant Catalytic Reduction of NO via Liberating Lewis Acid Sites.. *Environmental Science & Technology*, **2022**,	10.3	4
216	Low-temperature NOx reduction over hydrothermally stable SCR catalysts by engineering low-coordinated Mn active sites. *Chemical Engineering Journal*, **2022**, 442, 136182	14.7	1
215	NO Reduction over Smart Catalysts with Self-Created Targeted Antipoisoning Sites.. *Environmental Science & Technology*, **2022**,	10.3	2
214	Sintering- and coking-resistant nickel catalysts embedded in boron nitride supported nickel aluminate spinels for dry reforming of methane. *Applied Catalysis A: General*, **2022**, 118706	5.1	0
213	Cooperatively enhanced coking resistance via boron nitride coating over Ni-based catalysts for dry reforming of methane. *Applied Catalysis B: Environmental*, **2021**, 120859	21.8	6
212	Direct visualization of local deformations in suspended few-layer graphene membranes by coupled in situ atomic force and scanning electron microscopy. *Applied Physics Letters*, **2021**, 118, 103104	3.4	2
211	Confined Catalysts Application in Environmental Catalysis: Current Research Progress and Future Prospects. *ChemCatChem*, **2021**, 13, 2313-2336	5.2	10
210	Selective Capacitive Removal of Heavy Metal Ions from Wastewater over Lewis Base Sites of S-Doped Fe-N-C Cathodes an Electro-Adsorption Process. *Environmental Science & Technology*, **2021**, 55, 7665-7673	10.3	16

209	Coking-resistant dry reforming of methane over Ni/□AlO catalysts by rationally steering metal-support interaction. *IScience*, **2021**, 24, 102747	6.1	8
208	Efficient catalytic combustion of toluene at low temperature by tailoring surficial Pt and interfacial Pt-Al(OH) species. *IScience*, **2021**, 24, 102689	6.1	4
207	Improved NO Reduction over Phosphate-Modified FeO/TiO Catalysts Tailoring Reaction Paths by Creating Alkali-Poisoning Sites. *Environmental Science & Technology*, **2021**, 55, 9276-9284	10.3	12
206	Selective Capacitive Removal of Pb from Wastewater over Redox-Active Electrodes. *Environmental Science & Technology*, **2021**, 55, 730-737	10.3	30
205	In situ imaging analysis of the inhibition effect of functional coating on the volume expansion of silicon anodes. *Chemical Engineering Journal*, **2021**, 417, 128122	14.7	9
204	Beneficial synergy of adsorption□ntercalation□onversion mechanisms in Nb2O5@nitrogen-doped carbon frameworks for promoted removal of metal ions via hybrid capacitive deionization. *Environmental Science: Nano*, **2021**, 8, 122-130	7.1	7
203	Enhanced water purification via redox interfaces created by an atomic layer deposition strategy. *Environmental Science: Nano*, **2021**, 8, 950-959	7.1	5
202	Capacitive Removal of Heavy Metal Ions from Wastewater an Electro-Adsorption and Electro-Reaction Coupling Process. *Environmental Science & Technology*, **2021**, 55, 3333-3340	10.3	40
201	Alkali-Resistant Catalytic Reduction of NO via Naturally Coupling Active and Poisoning Sites. *Environmental Science & Technology*, **2021**,	10.3	6
200	Alkali-Resistant Catalytic Reduction of NO by Using Ce-O-B Alkali-Capture Sites. *Environmental Science & Technology*, **2021**, 55, 11970-11978	10.3	12
199	Capacitive Removal of Fluoride Ions via Creating Multiple Capture Sites in a Modulatory Heterostructure. *Environmental Science & Technology*, **2021**, 55, 11979-11986	10.3	9
198	High-Performance Binary Mo□Ni Catalysts for Efficient Carbon Removal during Carbon Dioxide Reforming of Methane. *ACS Catalysis*, **2021**, 11, 12087-12095	13.1	8
197	SO-Induced Alkali Resistance of FeVO/TiO Catalysts for NO Reduction.. *Environmental Science & Technology*, **2021**,	10.3	9
196	Unraveling the effects of the coordination number of Mn over □MnO2 catalysts for toluene oxidation. *Chemical Engineering Journal*, **2020**, 396, 125192	14.7	43
195	Unraveling the Unexpected Offset Effects of Cd and SO Deactivation over CeO-WO/TiO Catalysts for NO Reduction. *Environmental Science & Technology*, **2020**, 54, 7697-7705	10.3	49
194	Coking-resistant dry reforming of methane over BN□anoceria interface-confined Ni catalysts. *Catalysis Science and Technology*, **2020**, 10, 4237-4244	5.5	20
193	Boosting the Alkali/Heavy Metal Poisoning Resistance for NO Removal by Using Iron-Titanium Pillared Montmorillonite Catalysts. *Journal of Hazardous Materials*, **2020**, 399, 122947	12.8	9
192	Trace-Fe-Enhanced Capacitive Deionization of Saline Water by Boosting Electron Transfer of Electro-Adsorption Sites. *Environmental Science & Technology*, **2020**, 54, 8411-8419	10.3	52

191	A NaNiMnSnO cathode with anti-structural deformation enhancing long lifespan and super power for a sodium ion battery. *Chemical Communications*, **2020**, 56, 8079-8082	5.8	8
190	Alkali and Phosphorus Resistant Zeolite-like Catalysts for NO Reduction by NH. *Environmental Science & Technology*, **2020**, 54, 9132-9141	10.3	32
189	Delocalization Effect Promoted the Indoor Air Purification via Directly Unlocking the Ring-Opening Pathway of Toluene. *Environmental Science & Technology*, **2020**, 54, 9693-9701	10.3	32
188	Precise Al2O3 Coating on LiNi0.5Co0.2Mn0.3O2 by Atomic Layer Deposition Restrains the Shuttle Effect of Transition Metals in Li-Ion Capacitors. *Chemical Engineering Journal*, **2020**, 401, 126138	14.7	18
187	Volume expansion restriction effects of thick TiO2/C hybrid coatings on micro-sized SiOx anode materials. *Chemical Engineering Journal*, **2020**, 387, 124106	14.7	24
186	Enhanced capacitive deionization of saline water using N-doped rod-like porous carbon derived from dual-ligand metal□rganic frameworks. *Environmental Science: Nano*, **2020**, 7, 926-937	7.1	39
185	Promotional effects of B-terminated defective edges of Ni/boron nitride catalysts for coking- and sintering-resistant dry reforming of methane. *Applied Catalysis B: Environmental*, **2020**, 267, 118692	21.8	53
184	Turning on electrocatalytic oxygen reduction by creating robust Fe-N species in hollow carbon frameworks via in situ growth of Fe doped ZIFs on g-CN. *Nanoscale*, **2020**, 12, 5601-5611	7.7	18
183	Promoting toluene oxidation by engineering octahedral units via oriented insertion of Cu ions in the tetrahedral sites of MnCo spinel oxide catalysts. *Chemical Communications*, **2020**, 56, 6539-6542	5.8	13
182	Poisoning-Resistant NO Reduction in the Presence of Alkaline and Heavy Metals over H-SAPO-34-Supported Ce-Promoted Cu-Based Catalysts. *Environmental Science & Technology*, **2020**, 54, 6396-6405	10.3	51
181	SO2-tolerant NOx reduction over ceria-based catalysts: Shielding effects of hollandite Mn-Ti oxides. *Chemical Engineering Journal*, **2020**, 397, 125535	14.7	27
180	In situ decorated MOF-derived Mn□e oxides on Fe mesh as novel monolithic catalysts for NOx reduction. *New Journal of Chemistry*, **2020**, 44, 2357-2366	3.6	14
179	Sandwich-Like C@SnS@TiO Anodes with High Power and Long Cycle for Li-Ion Storage. *ACS Applied Materials & Interfaces*, **2020**, 12, 5857-5865	9.5	18
178	Efficient removal of metal ions by capacitive deionization with straw waste derived graphitic porous carbon nanosheets. *Environmental Science: Nano*, **2020**, 7, 317-326	7.1	42
177	Efficient Capacitive Deionization of Saline Water by an Integrated Tin disulfide [email□protected] Paper Electrode via an in Situ Growth Strategy. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1268-1275	8.3	16
176	SO-Tolerant NO Reduction by Marvelously Suppressing SO Adsorption over FeCeVO Catalysts. *Environmental Science & Technology*, **2020**, 54, 14066-14075	10.3	28
175	In situ growth of silicon carbide interface enhances the long life and high power of the mulberry-like Si-based anode for lithium-ion batteries. *Journal of Energy Storage*, **2020**, 32, 101856	7.8	5
174	Tailored Alkali Resistance of DeNO Catalysts by Improving Redox Properties and Activating Adsorbed Reactive Species. *IScience*, **2020**, 23, 101173	6.1	20

173	Selective catalytic oxidation of NH3 over noble metal-based catalysts: state of the art and future prospects. *Catalysis Science and Technology*, **2020**, 10, 5792-5810	5.5	24
172	Boosting Toluene Combustion by Engineering Co-O Strength in Cobalt Oxide Catalysts. *Environmental Science & Technology*, **2020**, 54, 10342-10350	10.3	44
171	Alkali-Resistant NO Reduction over SCR Catalysts via Boosting NH Adsorption Rates by In Situ Constructing the Sacrificed Sites. *Environmental Science & Technology*, **2020**, 54, 13314-13321	10.3	36
170	Integrated Structure of Tin-Based Anodes Enhancing High Power Density and Long Cycle Life for Lithium Ion Batteries. *ACS Applied Energy Materials*, **2020**, 3, 9337-9347	6.1	3
169	Self-Protected CeO-SnO@SO/TiO Catalysts with Extraordinary Resistance to Alkali and Heavy Metals for NO Reduction. *Environmental Science & Technology*, **2020**, 54, 12752-12760	10.3	32
168	Promotional effects of Fe on manganese oxide octahedral molecular sieves for alkali-resistant catalytic reduction of NOx: XAFS and in situ DRIFTs study. *Chemical Engineering Journal*, **2020**, 381, 122764	14.7	41
167	Capacitive Deionization of Saline Water by Using MoS-Graphene Hybrid Electrodes with High Volumetric Adsorption Capacity. *Environmental Science & Technology*, **2019**, 53, 12668-12676	10.3	94
166	Nanodiamond-decorated ZnO catalysts with enhanced photocorrosion-resistance for photocatalytic degradation of gaseous toluene. *Applied Catalysis B: Environmental*, **2019**, 257, 117880	21.8	71
165	Large-Scale and Low-Cost Motivation of Nitrogen-Doped Commercial Activated Carbon for High-Energy-Density Supercapacitor. *ACS Applied Energy Materials*, **2019**, 2, 4234-4243	6.1	26
164	SO-Tolerant Selective Catalytic Reduction of NO over Meso-TiO@FeO@AlO Metal-Based Monolith Catalysts. *Environmental Science & Technology*, **2019**, 53, 6462-6473	10.3	106
163	FeO-CeO@AlO Nanoarrays on Al-Mesh as SO-Tolerant Monolith Catalysts for NO Reduction by NH. *Environmental Science & Technology*, **2019**, 53, 5946-5956	10.3	119
162	Dual Promotional Effects of TiO-Decorated Acid-Treated MnO Octahedral Molecular Sieve Catalysts for Alkali-Resistant Reduction of NO. *ACS Applied Materials & Interfaces*, **2019**, 11, 11507-11517	9.5	47
161	Synergistic Ag(I)/ Bu4NBr-catalyzed fixation of CO2 to □xopropyl carbonates via propargylic alcohols and monohydric alcohols. *Tetrahedron*, **2019**, 75, 2343-2349	2.4	5
160	Methane dry reforming over boron nitride interface-confined and LDHs-derived Ni catalysts. *Applied Catalysis B: Environmental*, **2019**, 252, 86-97	21.8	82
159	Selective Catalytic Reduction of NO with NH by Using Novel Catalysts: State of the Art and Future Prospects. *Chemical Reviews*, **2019**, 119, 10916-10976	68.1	415
158	Creating Sandwich-like Ti3C2/TiO2/rGO as Anode Materials with High Energy and Power Density for Li-Ion Hybrid Capacitors. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 15394-15403	8.3	36
157	Template/surfactant free and UV light irradiation assisted fabrication of Mn-Co oxides composite nanorings: Structure and synthesis mechanism. *Progress in Natural Science: Materials International*, **2019**, 29, 163-169	3.6	2
156	Fe-, N-Embedded Hierarchically Porous Carbon Architectures Derived from FeTe-Trapped Zeolitic Imidazolate Frameworks as Efficient Oxygen Reduction Electrocatalysts. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 19268-19276	8.3	15

155	Operando Fourier Transform Infrared Investigation of Cathode Electrolyte Interphase Dynamic Reversible Evolution on LiNiMnO. *ACS Applied Materials & Interfaces*, **2019**, 11, 45108-45117	9.5	14
154	Silicon/Carbon Composite Anode Materials for Lithium-Ion Batteries. *Electrochemical Energy Reviews*, **2019**, 2, 149-198	29.3	121
153	Capacitive deionization of saline water using graphene nanosphere decorated N-doped layered mesoporous carbon frameworks. *Environmental Science: Nano*, **2019**, 6, 3442-3453	7.1	40
152	A MnN4 moiety embedded graphene as a magnetic gas sensor for CO detection: A first principle study. *Applied Surface Science*, **2019**, 473, 820-827	6.7	41
151	Cation and anion Co-doping synergy to improve structural stability of Li- and Mn-rich layered cathode materials for lithium-ion batteries. *Nano Energy*, **2019**, 57, 157-165	17.1	108
150	Improved NO Reduction in the Presence of SO by Using FeO-Promoted Halloysite-Supported CeO-WO Catalysts. *Environmental Science & Technology*, **2019**, 53, 938-945	10.3	136
149	N,P,S-Codoped Hierarchically Porous Carbon Spheres with Well-Balanced Gravimetric/Volumetric Capacitance for Supercapacitors. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 5265-5272	8.3	92
148	Tuning the dimensions and structures of nitrogen-doped carbon nanomaterials derived from sacrificial g-C3N4/metal□organic frameworks for enhanced electrocatalytic oxygen reduction. *Journal of Materials Chemistry A*, **2018**, 6, 5752-5761	13	88
147	Improved capacitive deionization by using 3D intercalated graphene sheet□sphere nanocomposite architectures. *Environmental Science: Nano*, **2018**, 5, 980-991	7.1	105
146	Creating graphene-like carbon layers on SiO anodes via a layer-by-layer strategy for lithium-ion battery. *Chemical Engineering Journal*, **2018**, 347, 273-279	14.7	44
145	Improved NOx reduction in the presence of alkali metals by using hollandite Mn□Ti oxide promoted Cu-SAPO-34 catalysts. *Environmental Science: Nano*, **2018**, 5, 1408-1419	7.1	70
144	Self-plied and twist-stable carbon nanotube yarn artificial muscles driven by organic solvent adsorption. *Nanoscale*, **2018**, 10, 8180-8186	7.7	27
143	Ion-selective asymmetric carbon electrodes for enhanced capacitive deionization.. *RSC Advances*, **2018**, 8, 2490-2497	3.7	24
142	Design of orderly carbon coatings for SiO anodes promoted by TiO2 toward high performance lithium-ion battery. *Chemical Engineering Journal*, **2018**, 338, 488-495	14.7	46
141	High Tap Density Li4Ti5O12 Anode Materials Synthesized for High Rate Performance Lithium Ion Batteries. *ChemistrySelect*, **2018**, 3, 348-353	1.8	4
140	Buckypaper of polyvinyl chloride/p-phenylenediamine modified graphite and PVC/graphite via resin infiltration technique. *Polymer Composites*, **2018**, 39, 4176-4187	3	4
139	Incorporation of CO2 into carbonates through carboxylation/hydration reaction **2018**, 8, 803-838		4
138	N, P, S co-doped hollow carbon polyhedra derived from MOF-based core□shell nanocomposites for capacitive deionization. *Journal of Materials Chemistry A*, **2018**, 6, 15245-15252	13	185

137	Removal of ions from saline water using N, P co-doped 3D hierarchical carbon architectures via capacitive deionization. *Environmental Science: Nano*, **2018**, 5, 2337-2345	7.1	73
136	Facile and template-free fabrication of mesoporous 3D nanosphere-like MnxCo3□O4 as highly effective catalysts for low temperature SCR of NOx with NH3. *Journal of Materials Chemistry A*, **2018**, 6, 2952-2963	13	76
135	Light driven fabrication of highly dispersed Mn-Co/RGO and the synergistic effect in catalytic degradation of methylene blue. *Materials and Design*, **2018**, 140, 286-294	8.1	18
134	Capacitive deionization of saline water using sandwich-like nitrogen-doped graphene composites via a self-assembling strategy. *Environmental Science: Nano*, **2018**, 5, 2722-2730	7.1	96
133	Confining Redox Electrolytes in Functionalized Porous Carbon with Improved Energy Density for Supercapacitors. *ACS Applied Materials & Interfaces*, **2018**, 10, 42494-42502	9.5	51
132	Straightforward Design for Phenoxy-Imine Catalytic Activity in Ethylene Polymerization: Theoretical Prediction. *Catalysts*, **2018**, 8, 422	4	5
131	Oxotitanium-porphyrin for selective catalytic reduction of NO by NH3: a theoretical mechanism study. *New Journal of Chemistry*, **2018**, 42, 16806-16813	3.6	6
130	Coke-resistant defect-confined Ni-based nanosheet-like catalysts derived from halloysites for CO reforming of methane. *Nanoscale*, **2018**, 10, 10528-10537	7.7	53
129	Defect-induced efficient dry reforming of methane over two-dimensional Ni/h-boron nitride nanosheet catalysts. *Applied Catalysis B: Environmental*, **2018**, 238, 51-60	21.8	86
128	Removal of NaCl from saltwater solutions using micro/mesoporous carbon sheets derived from watermelon peel via deionization capacitors. *RSC Advances*, **2017**, 7, 4297-4305	3.7	49
127	Facet□Activity Relationship of TiO2 in Fe2O3/TiO2 Nanocatalysts for Selective Catalytic Reduction of NO with NH3: In Situ DRIFTs and DFT Studies. *Journal of Physical Chemistry C*, **2017**, 121, 4970-4979	3.8	106
126	Creating Nitrogen-Doped Hollow [email□protected] Carbon as High Performance Electrodes for Flow-Through Deionization Capacitors. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 3329-3338	8.3	63
125	In Situ Expanding Pores of Dodecahedron-like Carbon Frameworks Derived from MOFs for Enhanced Capacitive Deionization. *ACS Applied Materials & Interfaces*, **2017**, 9, 15068-15078	9.5	105
124	In situ preparation of Ni nanoparticles in cerium-modified silica aerogels for coking- and sintering-resistant dry reforming of methane. *New Journal of Chemistry*, **2017**, 41, 4869-4878	3.6	34
123	Separation and recovery of heavy metal ions and salt ions from wastewater by 3D graphene-based asymmetric electrodes via capacitive deionization. *Journal of Materials Chemistry A*, **2017**, 5, 14748-14757	13	118
122	Rapid synthesis of self-supported three-dimensional bubble-like graphene frameworks as high-performance electrodes for supercapacitors. *Sustainable Energy and Fuels*, **2017**, 1, 1557-1567	5.8	20
121	Theoretical guidance and experimental confirmation on catalytic tendency of M-CeO2 (M = Zr, Mn, Ru or Cu) for NH3-SCR of NO. *Molecular Simulation*, **2017**, 43, 1240-1246	2	4
120	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	8.3	106

119	A facile strategy for the fast construction of porous graphene frameworks and their enhanced electrosorption performance. *Chemical Communications*, **2017**, 53, 7465-7468	5.8	81
118	Hexagonal boron nitride supported mesoSiO-confined Ni catalysts for dry reforming of methane. *Chemical Communications*, **2017**, 53, 7549-7552	5.8	77
117	A general strategy for the in situ decoration of porous Mn-Co bi-metal oxides on metal mesh/foam for high performance de-NO monolith catalysts. *Nanoscale*, **2017**, 9, 5648-5657	7.7	70
116	Rapid Synthesis of Sub-5 nm Sized Cubic Boron Nitride Nanocrystals with High-Piezoelectric Behavior via Electrochemical Shock. *Nano Letters*, **2017**, 17, 355-361	11.5	14
115	Scale-Activity Relationship of MnO-FeO Nanocage Catalysts Derived from Prussian Blue Analogues for Low-Temperature NO Reduction: Experimental and DFT Studies. *ACS Applied Materials & Interfaces*, **2017**, 9, 2581-2593	9.5	109
114	Deep insight into the structure□activity relationship of Nb modified SnO2□CeO2 catalysts for low-temperature selective catalytic reduction of NO by NH3. *Catalysis Science and Technology*, **2017**, 7, 502-514	5.5	49
113	Porous nanopeapod Pd catalyst with excellent stability and efficiency. *Chemical Communications*, **2017**, 53, 740-742	5.8	8
112	In Situ DRIFTs Investigation of Promotional Effects of Tungsten on MnOx-CeO2/meso-TiO2 Catalysts for NOx Reduction. *Journal of Physical Chemistry C*, **2017**, 121, 25243-25254	3.8	92
111	Mn□e bi-metal oxides in situ created on metal wire mesh as monolith catalysts for selective catalytic reduction of NO with NH3. *RSC Advances*, **2017**, 7, 40444-40451	3.7	12
110	Insights into the stable layered structure of a Li-rich cathode material for lithium-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 19738-19744	13	70
109	In situ fabrication of porous MnCoxOy nanocubes on Ti mesh as high performance monolith de-NOx catalysts. *RSC Advances*, **2017**, 7, 36319-36325	3.7	7
108	Coralloid-like Nanostructured c-nSi/SiO@C Anodes for High Performance Lithium Ion Battery. *ACS Applied Materials & Interfaces*, **2017**, 9, 28464-28472	9.5	41
107	Rapid construction of 3D foam-like carbon nanoarchitectures via a simple photochemical strategy for capacitive deionization. *RSC Advances*, **2017**, 7, 39372-39382	3.7	15
106	High Salt Removal Capacity of Metal□Organic Gel Derived Porous Carbon for Capacitive Deionization. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 11637-11644	8.3	54
105	Graphene-based materials for capacitive deionization. *Journal of Materials Chemistry A*, **2017**, 5, 13907-13943	13	189
104	The complete reaction mechanism of H2S desulfurization on an anatase TiO2 (001) surface: a density functional theory investigation. *Catalysis Science and Technology*, **2017**, 7, 356-365	5.5	19
103	Photocatalytic preparation of nanostructured MnO2-(Co3O4)/TiO2 hybrids: The formation mechanism and catalytic application in SCR deNOx reaction. *Applied Catalysis B: Environmental*, **2017**, 203, 778-788	21.8	75
102	Sc promoted and aerogel confined Ni catalysts for coking-resistant dry reforming of methane. *RSC Advances*, **2017**, 7, 4735-4745	3.7	27

101	Fast preparation of ultrafine monolayered transition-metal dichalcogenide quantum dots using electrochemical shock for explosive detection. *Chemical Communications*, **2016**, 52, 11442-11445	5.8	16
100	Solvent-Tunable Microstructures of Aligned Carbon Nanotube Films. *Advanced Materials Interfaces*, **2016**, 3, 1600352	4.6	20
99	Promotional effects of rare earth elements (Sc, Y, Ce, and Pr) on NiMgAl catalysts for dry reforming of methane. *RSC Advances*, **2016**, 6, 112215-112225	3.7	28
98	Promotional effect of the TiO2 (001) facet in the selective catalytic reduction of NO with NH3: in situ DRIFTS and DFT studies. *Catalysis Science and Technology*, **2016**, 6, 8516-8524	5.5	49
97	Photodegrading hexaazapentacene dispersant for surface-clean semiconducting single-walled carbon nanotubes. *Carbon*, **2016**, 105, 448-453	10.4	6
96	Nitrogen-doped porous carbon derived from a bimetallic metal–organic framework as highly efficient electrodes for flow-through deionization capacitors. *Journal of Materials Chemistry A*, **2016**, 4, 10858-10868	13	135
95	Creating 3D Hierarchical Carbon Architectures with Micro-, Meso-, and Macropores via a Simple Self-Blowing Strategy for a Flow-through Deionization Capacitor. *ACS Applied Materials & Interfaces*, **2016**, 8, 18027-35	9.5	83
94	Design of multi-shell Fe2O3@MnO(x)@CNTs for the selective catalytic reduction of NO with NH3: improvement of catalytic activity and SO2 tolerance. *Nanoscale*, **2016**, 8, 3588-98	7.7	143
93	Accelerating the decomposition of KMnO4 by photolysis and auto-catalysis: a green approach to synthesize a layered birnessite-type MnO2 assembled hierarchical nanostructure. *RSC Advances*, **2016**, 6, 14192-14198	3.7	21
92	Investigation of the Facet-Dependent Catalytic Performance of Fe2O3/CeO2 for the Selective Catalytic Reduction of NO with NH3. *Journal of Physical Chemistry C*, **2016**, 120, 1523-1533	3.8	161
91	Design and synthesis of NiCe@m-SiO2 yolk-shell framework catalysts with improved coke- and sintering-resistance in dry reforming of methane. *International Journal of Hydrogen Energy*, **2016**, 41, 2447-2456	6.7	120
90	Morphology-dependent performance of ZrCeVO4/TiO2 for selective catalytic reduction of NO with NH3. *Catalysis Science and Technology*, **2016**, 6, 5543-5553	5.5	60
89	High capacity and high rate capability of nitrogen-doped porous hollow carbon spheres for capacitive deionization. *Applied Surface Science*, **2016**, 369, 460-469	6.7	104
88	Grafting sulfonic and amine functional groups on 3D graphene for improved capacitive deionization. *Journal of Materials Chemistry A*, **2016**, 4, 5303-5313	13	144
87	Mechanistic insight into the selective catalytic reduction of NO by NH3 over low-valent titanium-porphyrin: a DFT study. *Catalysis Science and Technology*, **2016**, 6, 3878-3885	5.5	21
86	Promotional effects of zirconium doped CeVO 4 for the low-temperature selective catalytic reduction of NO x with NH 3. *Applied Catalysis B: Environmental*, **2016**, 183, 269-281	21.8	113
85	In situ DRIFTs investigation of the reaction mechanism over MnOx-MOy/Ce0.75Zr0.25O2 (M = Fe, Co, Ni, Cu) for the selective catalytic reduction of NOx with NH3. *Applied Surface Science*, **2016**, 387, 921-928	6.7	47
84	Investigations on the Antimony Promotional Effect on CeO2-WO3/TiO2 for Selective Catalytic Reduction of NOx with NH3. *ChemCatChem*, **2016**, 8, 2267-2278	5.2	34

83	In situ creating interconnected pores across 3D graphene architectures and their application as high performance electrodes for flow-through deionization capacitors. *Journal of Materials Chemistry A*, **2016**, 4, 4908-4919	13	84
82	Creating hierarchically macro-/mesoporous Sn/CeO2 for the selective catalytic reduction of NO with NH3. *RSC Advances*, **2016**, 6, 78727-78736	3.7	18
81	Ni nanoparticles immobilized Ce-modified mesoporous silica via a novel sublimation-deposition strategy for catalytic reforming of methane with carbon dioxide. *International Journal of Hydrogen Energy*, **2015**, 40, 9685-9695	6.7	86
80	Rational design and in situ fabrication of MnO2@NiCo2O4 nanowire arrays on Ni foam as high-performance monolith de-NOx catalysts. *Journal of Materials Chemistry A*, **2015**, 3, 11543-11553	13	140
79	Mechanistic Aspects of deNOx Processing over TiO2 Supported Co□Mn Oxide Catalysts: Structure□Activity Relationships and In Situ DRIFTs Analysis. *ACS Catalysis*, **2015**, 5, 6069-6077	13.1	221
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