Sheng Dai

List of Publications by Year
in descending order

661 papers	38,560 citations	3149 92 h-index	5806 161 g-index
706 all docs	706 docs citations	706 times ranked	37757 citing authors

#	Article	IF	Citations
1	Metalâ€“Organic Framework Derived Hybrid Co₃O₄-Carbon Porous Nanowire Arrays as Reversible Oxygen Evolution Electrodes. Journal of the American Chemical Society, 2014, 136, 13925-13931.	6.6	1,744
2	Water desalination using nanoporous single-layer graphene. Nature Nanotechnology, 2015, 10, 459-464.	15.6	1,372
3	Graphitic Carbon Nitride Nanosheetâ€“Carbon Nanotube Threeâ€Dimensional Porous Composites as Highâ€Performance Oxygen Evolution Electrocatalysts. Angewandte Chemie - International Edition, 2014, 53, 7281-7285.	7.2	737
4	Phosphorusâ€Doped Graphitic Carbon Nitrides Grown Inâ€…Situ on Carbonâ€Fiber Paper: Flexible and Reversible Oxygen Electrodes. Angewandte Chemie - International Edition, 2015, 54, 4646-4650.	7.2	722
5	Materials for the Recovery of Uranium from Seawater. Chemical Reviews, 2017, 117, 13935-14013.	23.0	639
6	Graphene oxide-polydopamine derived N, S-codoped carbon nanosheets as superior bifunctional electrocatalysts for oxygen reduction and evolution. Nano Energy, 2016, 19, 373-381.	8.2	597
7	pH-Responsive polymers: synthesis, properties and applications. Soft Matter, 2008, 4, 435.	1.2	593
8	Catalyst Architecture for Stable Single Atom Dispersion Enables Site-Specific Spectroscopic and Reactivity Measurements of CO Adsorbed to Pt Atoms, Oxidized Pt Clusters, and Metallic Pt Clusters on TiO₂. Journal of the American Chemical Society, 2017, 139, 14150-14165.	6.6	525
9	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. Nature Catalysis, 2019, 2, 495-503.	16.1	464
10	Ionic liquids and derived materials for lithium and sodium batteries. Chemical Society Reviews, 2018, 47, 2020-2064.	18.7	452
11	Protonâ€Functionalized Twoâ€Dimensional Graphitic Carbon Nitride Nanosheet: An Excellent Metalâ€/Labelâ€Free Biosensing Platform. Small, 2014, 10, 2382-2389.	5.2	441
12	Structural evolution of atomically dispersed Pt catalysts dictates reactivity. Nature Materials, 2019, 18, 746-751.	13.3	404
13	A facile synthesis of monodisperse Au nanoparticles and their catalysis of CO oxidation. Nano Research, 2008, 1, 229-234.	5.8	398
14	Promotion of Electrocatalytic Hydrogen Evolution Reaction on Nitrogen-Doped Carbon Nanosheets with Secondary Heteroatoms. ACS Nano, 2017, 11, 7293-7300.	7.3	357
15	Organic wastewater treatment by a single-atom catalyst and electrolytically produced H2O2. Nature Sustainability, 2021, 4, 233-241.	11.5	350
16	Mechanochemicalâ€Assisted Synthesis of Highâ€Entropy Metal Nitride via a Soft Urea Strategy. Advanced Materials, 2018, 30, e1707512.	11.1	325
17	Polydopamineâ€Inspired, Dual Heteroatomâ€Doped Carbon Nanotubes for Highly Efficient Overall Water Splitting. Advanced Energy Materials, 2017, 7, 1602068.	10.2	319
18	Defectâ€Tailoring Mediated Electronâ€“Hole Separation in Singleâ€Unitâ€Cell Bi₃O₄Br Nanosheets for Boosting Photocatalytic Hydrogen Evolution and Nitrogen Fixation. Advanced Materials, 2019, 31, e1807576.	11.1	311

#	Article	IF	Citations
19	High-entropy materials for catalysis: A new frontier. Science Advances, 2021, 7, .	4.7	294
20	Shape Control of Mn₃O₄ Nanoparticles on Nitrogenâ€Doped Graphene for Enhanced Oxygen Reduction Activity. Advanced Functional Materials, 2014, 24, 2072-2078.	7.8	283
21	Self-supported electrocatalysts for advanced energy conversion processes. Materials Today, 2016, 19, 265-273.	8.3	268
22	Multiâ€Molar Absorption of CO₂ by the Activation of Carboxylate Groups in Amino Acid Ionic Liquids. Angewandte Chemie - International Edition, 2016, 55, 7166-7170.	7.2	264
23	Hydrate morphology: Physical properties of sands with patchy hydrate saturation. Journal of Geophysical Research, 2012, 117, .	3.3	231
24	Dynamical Observation and Detailed Description of Catalysts under Strong Metalâ€“Support Interaction. Nano Letters, 2016, 16, 4528-4534.	4.5	230
25	Mesoporous MnCo₂O₄with abundant oxygen vacancy defects as high-performance oxygen reduction catalysts. Journal of Materials Chemistry A, 2014, 2, 8676-8682.	5.2	227
26	A Sacrificial Coating Strategy Toward Enhancement of Metalâ€“Support Interaction for Ultrastable Au Nanocatalysts. Journal of the American Chemical Society, 2016, 138, 16130-16139.	6.6	217
27	Rational Design of Bi Nanoparticles for Efficient Electrochemical CO₂ Reduction: The Elucidation of Size and Surface Condition Effects. ACS Catalysis, 2016, 6, 6255-6264.	5.5	212
28	Electrode materialâ€“ionic liquid coupling for electrochemical energy storage. Nature Reviews Materials, 2020, 5, 787-808.	23.3	210
29	High-Entropy Perovskite Fluorides: A New Platform for Oxygen Evolution Catalysis. Journal of the American Chemical Society, 2020, 142, 4550-4554.	6.6	208
30	In Situ Doping Strategy for the Preparation of Conjugated Triazine Frameworks Displaying Efficient CO₂ Capture Performance. Journal of the American Chemical Society, 2016, 138, 11497-11500.	6.6	200
31	Hydrophobic Solid Acids and Their Catalytic Applications in Green and Sustainable Chemistry. ACS Catalysis, 2018, 8, 372-391.	5.5	200
32	Developing Functionalized Dendrimerâ€Like Silica Nanoparticles with Hierarchical Pores as Advanced Delivery Nanocarriers. Advanced Materials, 2013, 25, 5981-5985.	11.1	199
33	Synthesis of Porous Polymeric Catalysts for the Conversion of Carbon Dioxide. ACS Catalysis, 2018, 8, 9079-9102.	5.5	196
34	Entropy-stabilized metal oxide solid solutions as CO oxidation catalysts with high-temperature stability. Journal of Materials Chemistry A, 2018, 6, 11129-11133.	5.2	196
35	Reconstructed covalent organic frameworks. Nature, 2022, 604, 72-79.	13.7	190
36	Quantitative and Atomic-Scale View of CO-Induced Pt Nanoparticle Surface Reconstruction at Saturation Coverage via DFT Calculations Coupled with in Situ TEM and IR. Journal of the American Chemical Society, 2017, 139, 4551-4558.	6.6	186

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37	Crystal Structural Effect of AuCu Alloy Nanoparticles on Catalytic CO Oxidation. Journal of the American Chemical Society, 2017, 139, 8846-8854.	6.6	181
38	Entropy-stabilized single-atom Pd catalysts via high-entropy fluorite oxide supports. Nature Communications, 2020, 11, 3908.	5.8	172
39	Uniformity Is Key in Defining Structureâ€“Function Relationships for Atomically Dispersed Metal Catalysts: The Case of Pt/CeO₂. Journal of the American Chemical Society, 2020, 142, 169-184.	6.6	170
40	Taming the stability of Pd active phases through a compartmentalizing strategy toward nanostructured catalyst supports. Nature Communications, 2019, 10, 1611.	5.8	168
41	In Situ Coupling Strategy for the Preparation of FeCo Alloys and Co₄N Hybrid for Highly Efficient Oxygen Evolution. Advanced Materials, 2017, 29, 1704091.	11.1	165
42	Anisotropic and hierarchical SiC@SiO ₂ nanowire aerogel with exceptional stiffness and stability for thermal superinsulation. Science Advances, 2020, 6, eaay6689.	4.7	164
43	Solventâ€Free Selfâ€Assembly to the Synthesis of Nitrogenâ€Doped Ordered Mesoporous Polymers for Highly Selective Capture and Conversion of CO₂. Advanced Materials, 2017, 29, 1700445.	11.1	162
44	Mechanochemical synthesis of metalâ€“organic frameworks. Polyhedron, 2019, 162, 59-64.	1.0	161
45	Holey Lamellar Highâ€Entropy Oxide as an Ultraâ€Highâ€Activity Heterogeneous Catalyst for Solventâ€free Aerobic Oxidation of Benzyl Alcohol. Angewandte Chemie - International Edition, 2020, 59, 19503-19509.	7.2	157
46	Induced activation of the commercial Cu/ZnO/Al2O3 catalyst for the steam reforming of methanol. Nature Catalysis, 2022, 5, 99-108.	16.1	155
47	Surface enrichment and diffusion enabling gradient-doping and coating of Ni-rich cathode toward Li-ion batteries. Nature Communications, 2021, 12, 4564.	5.8	153
48	Boric acid-based ternary deep eutectic solvent for extraction and oxidative desulfurization of diesel fuel. Green Chemistry, 2019, 21, 3074-3080.	4.6	151
49	Polymeric molecular sieve membranes via in situ cross-linking of non-porous polymer membrane templates. Nature Communications, 2014, 5, 3705.	5.8	143
50	Mechanochemical Synthesis of High Entropy Oxide Materials under Ambient Conditions: Dispersion of Catalysts via Entropy Maximization. , 2019, 1, 83-88.		143
51	New Class of Type III Porous Liquids: A Promising Platform for Rational Adjustment of Gas Sorption Behavior. ACS Applied Materials & Interfaces, 2018, 10, 32-36.	4.0	142
52	Efficient CO₂ Capture by a 3D Porous Polymer Derived from TrÃ¶gerâ€™s Base. ACS Macro Letters, 2013, 2, 660-663.	2.3	138
53	Microbial community and bioelectrochemical activities in MFC for degrading phenol and producing electricity: Microbial consortia could make differences. Chemical Engineering Journal, 2018, 332, 647-657.	6.6	137
54	Frenkel-defected monolayer MoS2 catalysts for efficient hydrogen evolution. Nature Communications, 2022, 13, 2193.	5.8	137

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55	Efficient removal of organic dye pollutants using covalent organic frameworks. AICHE Journal, 2017, 63, 3470-3478.	1.8	136
56	Transformation Strategy for Highly Crystalline Covalent Triazine Frameworks: From Staggered AB to Eclipsed AA Stacking. Journal of the American Chemical Society, 2020, 142, 6856-6860.	6.6	136
57	Isothermal Titration Calorimetry Studies of Binding Interactions between Polyethylene Glycol and Ionic Surfactants. Journal of Physical Chemistry B, 2001, 105, 10759-10763.	1.2	134
58	Activating natural bentonite as a cost-effective adsorbent for removal of Congo-red in wastewater. Journal of Industrial and Engineering Chemistry, 2015, 21, 653-661.	2.9	133
59	Hierarchical Mesoporous/Macroporous Perovskite La_{0.5}Sr_{0.5}CoO_{3â€“x}Nanotubes: A Bifunctional Catalyst with Enhanced Activity and Cycle Stability for Rechargeable Lithium Oxygen Batteries. ACS Applied Materials & Interfaces, 2015, 7, 22478-22486.	4.0	130
60	Entropyâ€Maximized Synthesis of Multimetallic Nanoparticle Catalysts via a Ultrasonicationâ€Assisted Wet Chemistry Method under Ambient Conditions. Advanced Materials Interfaces, 2019, 6, 1900015.	1.9	130
61	Surfactantâ€Assisted Stabilization of Au Colloids on Solids for Heterogeneous Catalysis. Angewandte Chemie - International Edition, 2017, 56, 4494-4498.	7.2	129
62	Synergistic Effect of F^{â€“} Doping and LiF Coating on Improving the High-Voltage Cycling Stability and Rate Capacity of LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂ Cathode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 34153-34162.	4.0	129
63	Direct Recycling of Spent NCM Cathodes through Ionothermal Lithiation. Advanced Energy Materials, 2020, 10, 2001204.	10.2	129
64	Preorganization and Cooperation for Highly Efficient and Reversible Capture of Lowâ€Concentration CO₂ by Ionic Liquids. Angewandte Chemie - International Edition, 2017, 56, 13293-13297.	7.2	128
65	The strategies for improving carbon dioxide chemisorption by functionalized ionic liquids. RSC Advances, 2013, 3, 15518.	1.7	127
66	Spaceâ€Confined Polymerization: Controlled Fabrication of Nitrogenâ€Doped Polymer and Carbon Microspheres with Refined Hierarchical Architectures. Advanced Materials, 2019, 31, e1807876.	11.1	127
67	Uniform Pt/Pd Bimetallic Nanocrystals Demonstrate Platinum Effect on Palladium Methane Combustion Activity and Stability. ACS Catalysis, 2017, 7, 4372-4380.	5.5	124
68	Confined Ultrathin Pdâ€Ce Nanowires with Outstanding Moisture and SO₂ Tolerance in Methane Combustion. Angewandte Chemie - International Edition, 2018, 57, 8953-8957.	7.2	124
69	Synergistic effect of dual BrÃ¸nsted acidic deep eutectic solvents for oxidative desulfurization of diesel fuel. Chemical Engineering Journal, 2020, 394, 124831.	6.6	123
70	Catalysts in Coronas: A Surface Spatial Confinement Strategy for High-Performance Catalysts in Methane Dry Reforming. ACS Catalysis, 2019, 9, 9072-9080.	5.5	121
71	The aggregation behavior of O-carboxymethylchitosan in dilute aqueous solution. Colloids and Surfaces B: Biointerfaces, 2005, 43, 143-149.	2.5	119
72	Platinum-trimer decorated cobalt-palladium core-shell nanocatalyst with promising performance for oxygen reduction reaction. Nature Communications, 2019, 10, 440.	5.8	115

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73	Deep Understanding of Strong Metal Interface Confinement: A Journey of Pd/FeO_x Catalysts. ACS Catalysis, 2020, 10, 8950-8959.	5.5	113
74	Origin of the unusually strong and selective binding of vanadium by polyamidoximes in seawater. Nature Communications, 2017, 8, 1560.	5.8	110
75	Ion-Gated Gas Separation through Porous Graphene. Nano Letters, 2017, 17, 1802-1807.	4.5	109
76	Entropyâ€Driven Mechanochemical Synthesis of Polymetallic Zeolitic Imidazolate Frameworks for CO₂ Fixation. Angewandte Chemie - International Edition, 2019, 58, 5018-5022.	7.2	107
77	Rapid gas-assisted exfoliation promises V2O5 nanosheets for high performance lithium-sulfur batteries. Nano Energy, 2020, 67, 104253.	8.2	106
78	Silica-Supported Auâ€“CuO_x Hybrid Nanocrystals as Active and Selective Catalysts for the Formation of Acetaldehyde from the Oxidation of Ethanol. ACS Catalysis, 2012, 2, 2537-2546.	5.5	105
79	Polydopamineâ€“graphene oxide derived mesoporous carbon nanosheets for enhanced oxygen reduction. Nanoscale, 2015, 7, 12598-12605.	2.8	104
80	Roomâ€Temperature Synthesis of Highâ€Entropy Perovskite Oxide Nanoparticle Catalysts through Ultrasonicationâ€Based Method. ChemSusChem, 2020, 13, 111-115.	3.6	104
81	A Novel Electrolyte Salt Additive for Lithiumâ€Ion Batteries with Voltages Greater than 4.7 V. Advanced Energy Materials, 2017, 7, 1601397.	10.2	103
82	Low-Temperature Fluorination of Soft-Templated Mesoporous Carbons for a High-Power Lithium/Carbon Fluoride Battery. Chemistry of Materials, 2011, 23, 4420-4427.	3.2	102
83	Nitrogenâ€Doped CN_x/CNTs Heteroelectrocatalysts for Highly Efficient Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2017, 7, 1602276.	10.2	102
84	In situ atomic-scale observation of oxygen-driven core-shell formation in Pt3Co nanoparticles. Nature Communications, 2017, 8, 204.	5.8	102
85	Isothermal Titration Calorimetric Studies on the Temperature Dependence of Binding Interactions between Poly(propylene glycol)s and Sodium Dodecyl Sulfate. Langmuir, 2004, 20, 2177-2183.	1.6	101
86	Transforming Porous Organic Cages into Porous Ionic Liquids via a Supramolecular Complexation Strategy. Angewandte Chemie - International Edition, 2020, 59, 2268-2272.	7.2	101
87	Novel pH-Responsive Amphiphilic Diblock Copolymers with Reversible Micellization Properties. Langmuir, 2003, 19, 5175-5177.	1.6	100
88	Sizeâ€Dependent Nickelâ€Based Electrocatalysts for Selective CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 18572-18577.	7.2	100
89	Mesoporous Carbon Nanospheres as a Multifunctional Carrier for Cancer Theranostics. Theranostics, 2018, 8, 663-675.	4.6	99
90	â€œBrickâ€andâ€Mortarâ€•Selfâ€Assembly Approach to Graphitic Mesoporous Carbon Nanocomposites. Advanced Functional Materials, 2011, 21, 2208-2215.	7.8	98

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91	Aggregation Behavior of C60-End-Capped Poly(ethylene oxide)s. Langmuir, 2003, 19, 4798-4803.	1.6	97
92	Significant Improvement of Catalytic Performance for Chlorinated Volatile Organic Compound Oxidation over RuO_x Supported on Acid-Etched Co₃O₄. Environmental Science & Technology, 2021, 55, 10734-10743.	4.6	97
93	The water retention curve and relative permeability for gas production from hydrateâ€bearing sediments: poreâ€network model simulation. Geochemistry, Geophysics, Geosystems, 2016, 17, 3099-3110.	1.0	96
94	Enhancement on the wettability of lithium battery separator toward nonaqueous electrolytes. Journal of Membrane Science, 2016, 503, 25-30.	4.1	95
95	Confining Noble Metal (Pd, Au, Pt) Nanoparticles in Surfactant Ionic Liquids: Active Non-Mercury Catalysts for Hydrochlorination of Acetylene. ACS Catalysis, 2015, 5, 6724-6731.	5.5	94
96	Lanthanide-Containing Polymer Microspheres by Multiple-Stage Dispersion Polymerization for Highly Multiplexed Bioassays. Journal of the American Chemical Society, 2009, 131, 15276-15283.	6.6	92
97	Synthesis of silica supported AuCu nanoparticle catalysts and the effects of pretreatment conditions for the CO oxidation reaction. Physical Chemistry Chemical Physics, 2011, 13, 2571.	1.3	92
98	Efficient Absorption of SO₂ by EmimCl-EG Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2017, 5, 6382-6386.	3.2	92
99	Two-in-one: construction of hydroxyl and imidazolium-bifunctionalized ionic networks in one-pot toward synergistic catalytic CO₂fixation. Chemical Communications, 2020, 56, 3309-3312.	2.2	92
100	Chemical Approaches to Carbonâ€Based Metalâ€Free Catalysts. Advanced Materials, 2019, 31, e1804863.	11.1	90
101	Lowâ€Temperature CO Oxidation over a Ternary Oxide Catalyst with High Resistance to Hydrocarbon Inhibition. Angewandte Chemie - International Edition, 2015, 54, 13263-13267.	7.2	87
102	Mechanochemical synthesis of pillar[5]quinone derived multi-microporous organic polymers for radioactive organic iodide capture and storage. Nature Communications, 2020, 11, 1086.	5.8	87
103	Constructing Hierarchical Interfaces: TiO₂-Supported PtFeâ€“FeO_x Nanowires for Room Temperature CO Oxidation. Journal of the American Chemical Society, 2015, 137, 10156-10159.	6.6	86
104	Nearâ€Infrared Active Lead Chalcogenide Quantum Dots: Preparation, Postâ€Synthesis Ligand Exchange, and Applications in Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 5202-5224.	7.2	86
105	Isothermal Titration Calorimetric Studies on Interactions of Ionic Surfactant and Poly(oxypropylene)â^'Poly(oxyethylene)â^' Poly(oxypropylene) Triblock Copolymers in Aqueous Solutions. Macromolecules, 2001, 34, 7049-7055.	2.2	85
106	Smart Pd Catalyst with Improved Thermal Stability Supported on High-Surface-Area LaFeO₃ Prepared by Atomic Layer Deposition. Journal of the American Chemical Society, 2018, 140, 4841-4848.	6.6	85
107	Photoinduced Strong Metalâ€“Support Interaction for Enhanced Catalysis. Journal of the American Chemical Society, 2021, 143, 8521-8526.	6.6	85
108	Polysaccharide surface modified Fe3O4 nanoparticles for camptothecin loading and release. Acta Biomaterialia, 2009, 5, 1489-1498.	4.1	84

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109	Siderophore-inspired chelator hijacks uranium from aqueous medium. Nature Communications, 2019, 10, 819.	5.8	84
110	Harnessing strong metalâ€“support interactions via a reverse route. Nature Communications, 2020, 11, 3042.	5.8	84
111	Porous Carbon Supports: Recent Advances with Various Morphologies and Compositions. ChemCatChem, 2015, 7, 2788-2805.	1.8	83
112	Electrochemically Driven Transformation of Amorphous Carbons to Crystalline Graphite Nanoflakes: A Facile and Mild Graphitization Method. Angewandte Chemie - International Edition, 2017, 56, 1751-1755.	7.2	83
113	Highly Efficient Carbon Monoxide Capture by Carbanionâ€Functionalized Ionic Liquids through Câ€Site Interactions. Angewandte Chemie - International Edition, 2017, 56, 6843-6847.	7.2	83
114	Porous liquid zeolites: hydrogen bonding-stabilized H-ZSM-5 in branched ionic liquids. Nanoscale, 2019, 11, 1515-1519.	2.8	82
115	Boosting electrosynthesis of ammonia on surface-engineered MXene Ti3C2. Nano Energy, 2020, 72, 104681.	8.2	82
116	Highly Ethyleneâ€Selective Electrocatalytic CO₂ Reduction Enabled by Isolated Cuâ^'S Motifs in Metalâ€“Organic Framework Based Precatalysts. Angewandte Chemie - International Edition, 2022, 61, .	7.2	81
117	Comparative UVâ^'Vis Studies of Uranyl Chloride Complex in Two Basic Ambient-Temperature Melt Systems:â€‰ The Observation of Spectral and Thermodynamic Variations Induced via Hydrogen Bonding. Inorganic Chemistry, 1997, 36, 4900-4902.	1.9	79
118	Mechanochemical synthesis of porous organic materials. Journal of Materials Chemistry A, 2017, 5, 16118-16127.	5.2	79
119	Solventâ€Induced Selfâ€Assembly Strategy to Synthesize Wellâ€Defined Hierarchically Porous Polymers. Advanced Materials, 2019, 31, e1806254.	11.1	79
120	Solvothermal synthesis of hierarchically nanoporous organic polymers with tunable nitrogen functionality for highly selective capture of CO₂. Journal of Materials Chemistry A, 2016, 4, 13063-13070.	5.2	78
121	Enhanced Oxygen Activation Achieved by Robust Single Chromium Atom-Derived Catalysts in Aerobic Oxidative Desulfurization. ACS Catalysis, 2022, 12, 8623-8631.	5.5	78
122	Twoâ€Dimensional Materials as Prospective Scaffolds for Mixedâ€Matrix Membraneâ€Based CO₂ Separation. ChemSusChem, 2017, 10, 3304-3316.	3.6	77
123	Multistage Triaxial Tests on Laboratoryâ€Formed Methane Hydrateâ€Bearing Sediments. Journal of Geophysical Research: Solid Earth, 2018, 123, 3347-3357.	1.4	77
124	SO₂absorption in EmimClâ€“TEG deep eutectic solvents. Physical Chemistry Chemical Physics, 2018, 20, 15168-15173.	1.3	76
125	Boron Supercapacitors. ACS Energy Letters, 2016, 1, 1241-1246.	8.8	75
126	Exploring N-Imidazolyl-O-Carboxymethyl Chitosan for High Performance Gene Delivery. Biomacromolecules, 2012, 13, 146-153.	2.6	74

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127	Prediction of Carbon Dioxide Adsorption via Deep Learning. Angewandte Chemie - International Edition, 2019, 58, 259-263.	7.2	74
128	Insights from machine learning of carbon electrodes for electric double layer capacitors. Carbon, 2020, 157, 147-152.	5.4	74
129	A galactosamine-mediated drug delivery carrier for targeted liver cancer therapy. Pharmacological Research, 2011, 64, 410-419.	3.1	73
130	Surpassing Robeson Upper Limit for CO2/N2 Separation with Fluorinated Carbon Molecular Sieve Membranes. CheM, 2020, 6, 631-645.	5.8	73
131	Hollow mesoporous silica nanoparticles: A peculiar structure for thin film nanocomposite membranes. Journal of Membrane Science, 2016, 519, 1-10.	4.1	72
132	Enhanced Cycling Performance for Lithiumâ€“Sulfur Batteries by a Laminated 2D gâ€C₃N₄/Graphene Cathode Interlayer. ChemSusChem, 2019, 12, 213-223.	3.6	72
133	An ultrastable heterostructured oxide catalyst based on high-entropy materials: A new strategy toward catalyst stabilization via synergistic interfacial interaction. Applied Catalysis B: Environmental, 2020, 276, 119155.	10.8	72
134	Revealing Surface Elemental Composition and Dynamic Processes Involved in Facet-Dependent Oxidation of Pt₃Co Nanoparticles via in Situ Transmission Electron Microscopy. Nano Letters, 2017, 17, 4683-4688.	4.5	71
135	Poly(alkyl methacrylate) Brush-Grafted Silica Nanoparticles as Oil Lubricant Additives: Effects of Alkyl Pendant Groups on Oil Dispersibility, Stability, and Lubrication Property. ACS Applied Materials & Interfaces, 2017, 9, 25038-25048.	4.0	70
136	Ionic Liquidâ€Directed Nanoporous TiNb₂O₇ Anodes with Superior Performance for Fastâ€Rechargeable Lithiumâ€Ion Batteries. Small, 2020, 16, e2001884.	5.2	69
137	Tailoring Polymer Colloids Derived Porous Carbon Spheres Based on Specific Chemical Reactions. Advanced Materials, 2020, 32, e2002475.	11.1	69
138	Atomically Dispersed Highâ€Density Alâ€“N₄ Sites in Porous Carbon for Efficient Photodriven CO₂ Cycloaddition. Advanced Materials, 2021, 33, e2103186.	11.1	69
139	Aggregation behavior of two-arm fullerene-containing poly(ethylene oxide). Polymer, 2003, 44, 2529-2536.	1.8	68
140	Windowed Carbon Nanotubes for Efficient CO₂ Removal from Natural Gas. Journal of Physical Chemistry Letters, 2012, 3, 3343-3347.	2.1	68
141	Lithiophilic V2O5 nanobelt arrays decorated 3D framework hosts for highly stable composite lithium metal anodes. Chemical Engineering Journal, 2020, 384, 123313.	6.6	68
142	Solventâ€Free Selfâ€Assembly for Scalable Preparation of Highly Crystalline Mesoporous Metal Oxides. Angewandte Chemie - International Edition, 2020, 59, 11053-11060.	7.2	68
143	One-step synthesis of nitrogen-doped graphene-like meso-macroporous carbons as highly efficient and selective adsorbents for CO₂ capture. Journal of Materials Chemistry A, 2016, 4, 14567-14571.	5.2	67
144	Aminopolymer functionalization of boron nitride nanosheets for highly efficient capture of carbon dioxide. Journal of Materials Chemistry A, 2017, 5, 16241-16248.	5.2	67

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145	Polypyrrole-Based Nitrogen-Doped Carbon Replicas of SBA-15 and SBA-16 Containing Magnetic Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 13126-13133.	1.5	66
146	Distinctive Nanoscale Organization of Dicationic versus Monocationic Ionic Liquids. Journal of Physical Chemistry C, 2013, 117, 18251-18257.	1.5	66
147	Mechanochemical Nonhydrolytic Solâ€“Gel-Strategy for the Production of Mesoporous Multimetallic Oxides. Chemistry of Materials, 2019, 31, 5529-5536.	3.2	65
148	Total Oxidation of Light Alkane over Phosphate-Modified Pt/CeO₂ Catalysts. Environmental Science & Technology, 2022, 56, 9661-9671.	4.6	65
149	Engineering the Interlayer Spacing by Preâ€Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid. Advanced Functional Materials, 2021, 31, 2104007.	7.8	64
150	Electron-Beam-Induced Elasticâ€“Plastic Transition in Si Nanowires. Nano Letters, 2012, 12, 2379-2385.	4.5	63
151	Effects of amine loading on the properties of cellulose nanofibrils aerogel and its CO2 capturing performance. Carbohydrate Polymers, 2018, 194, 252-259.	5.1	63
152	Label-free dendrimer-like silica nanohybrids for traceable and controlled gene delivery. Biomaterials, 2014, 35, 5580-5590.	5.7	62
153	Functionalized thermo-responsive microgels for high performance forward osmosis desalination. Water Research, 2015, 70, 385-393.	5.3	62
154	Benzyl-Functionalized Room Temperature Ionic Liquids for CO₂/N₂ Separation. Industrial & Engineering Chemistry Research, 2011, 50, 14061-14069.	1.8	61
155	Microengineered 3D cellâ€laden thermoresponsive hydrogels for mimicking cell morphology and orientation in cartilage tissue engineering. Biotechnology and Bioengineering, 2017, 114, 217-231.	1.7	61
156	Organic Cathode Materials for Lithiumâ€Ion Batteries: Past, Present, and Future. Advanced Energy and Sustainability Research, 2021, 2, 2000044.	2.8	61
157	Biomimetic three-dimensional microenvironment for controlling stem cell fate. Interface Focus, 2011, 1, 792-803.	1.5	60
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