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	Hydrophobic 1-octadecanethiol functionalized copper catalyst promotes robust high-current CO2 gas-diffusion electrolysis. Nano Research, 2022, 15, 1393-1398.	5.8	19
2	Ultrasound-driven fabrication of high-entropy alloy nanocatalysts promoted by alcoholic ionic liquids. Nano Research, 2022, 15, 4792-4798.	5.8	13
3	Highly Ethyleneâ€Selective Electrocatalytic CO₂ Reduction Enabled by Isolated Cuâ^'S Motifs in Metalâ€“Organic Framework Based Precatalysts. Angewandte Chemie, 2022, 134, .	1.6	5
4	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
5	Molecularly Dispersed Cobalt Phthalocyanine Mediates Selective and Durable CO₂ Reduction in a Membrane Flow Cell. Advanced Functional Materials, 2022, 32, 2107301.	7.8	43
6	Graphitic Azaâ€Fused Ï€â€Conjugated Networks: Construction, Engineering, and Taskâ€Specific Applications. Advanced Materials, 2022, 34, e2107947.	11.1	17
7	Selective methane electrosynthesis enabled by a hydrophobic carbon coated copper coreâ€“shell architecture. Energy and Environmental Science, 2022, 15, 234-243.	15.6	51
8	Stable Bismuthâ€Doped Lead Halide Perovskite Coreâ€Shell Nanocrystals by Surface Segregation Effect. Small, 2022, 18, e2104399.	5.2	12
9	Newâ€Generation Carbonâ€Capture Ionic Liquids Regulated by Metalâ€Ion Coordination. ChemSusChem, 2022, 15, .	3.6	8
10	Ligand Defect Density Regulation in Metalâ€“Organic Frameworks by Functional Group Engineering on Linkers. Nano Letters, 2022, 22, 838-845.	4.5	29
11	Beyond Simple Dilution: Superior Conductivities from Cosolvation of Acetonitrile/LiTFSI Concentrated Solution with Acetone. Journal of Physical Chemistry C, 2022, 126, 2788-2796.	1.5	6
12	Induced activation of the commercial Cu/ZnO/Al2O3 catalyst for the steam reforming of methanol. Nature Catalysis, 2022, 5, 99-108.	16.1	155
13	Stable Pdâ€“Cu Hydride Catalyst for Efficient Hydrogen Evolution. Nano Letters, 2022, 22, 1391-1397.	4.5	41
14	Interfacial-confined coordination to single-atom nanotherapeutics. Nature Communications, 2022, 13, 91.	5.8	49
15	Intra-crystalline mesoporous zeolite encapsulation-derived thermally robust metal nanocatalyst in deep oxidation of light alkanes. Nature Communications, 2022, 13, 295.	5.8	54
16	Deep Oxidative Desulfurization of Model Fuels Catalyzed by Subnanosized Ti Oxoclusters. Energy & Fuels, 2022, 36, 1402-1416.	2.5	17
17	Metalâ€“Tannin Coordination Assembly Route to Nanostructured High-Entropy Oxide Perovskites with Abundant Defects. Chemistry of Materials, 2022, 34, 1746-1755.	3.2	14
18	Enhancing Cycling Stability and Capacity Retention of NMC811 Cathodes by Reengineering Interfaces via Electrochemical Fluorination. Advanced Materials Interfaces, 2022, 9, .	1.9	10

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19	Dual Rate-Modulation Approach for the Preparation of Crystalline Covalent Triazine Frameworks Displaying Efficient Sodium Storage. ACS Macro Letters, 2022, 11, 60-65.	2.3	12
20	Controlling the elasticity of polyacrylonitrile fibers via ionic liquids containing cyano-based anions. RSC Advances, 2022, 12, 8656-8660.	1.7	2
21	Electrochemical conversion of CO₂ to syngas with a stable H₂/CO ratio in a wide potential range over ligand-engineered metalâ€“organic frameworks. Journal of Materials Chemistry A, 2022, 10, 9954-9959.	5.2	5
22	Enhanced Hemocompatibility of Silver Nanoparticles Using the Photocatalytic Properties of Titanium Dioxide. Frontiers in Bioengineering and Biotechnology, 2022, 10, 855471.	2.0	2
23	Ionothermal Synthesis of Carbon/TiO₂ Nanocomposite for Supercapacitors. ChemNanoMat, 2022, 8, .	1.5	27
24	Regulating the Spatial Distribution of Ru Nanoparticles on CeO₂ Support for Enhanced Propane Oxidation. ACS Applied Nano Materials, 2022, 5, 3937-3945.	2.4	6
25	Molecularly Dispersed Cobalt Phthalocyanine Mediates Selective and Durable CO₂ Reduction in a Membrane Flow Cell (Adv. Funct. Mater. 11/2022). Advanced Functional Materials, 2022, 32, .	7.8	1
26	Single Atoms Anchored in Hexagonal Boron Nitride for Propane Dehydrogenation from First Principles. ChemCatChem, 2022, 14, .	1.8	6
27	Direct Correlation of the Salt-Reduced Diffusivities of Organic Solvents with the Solventâ€™s Mole Fraction. Journal of Physical Chemistry Letters, 2022, 13, 2845-2850.	2.1	2
28	Mechanochemically Assisted Synthesis of High-Entropy Layer-Structured Dittmarite Analogues. ACS Applied Energy Materials, 2022, 5, 3290-3297.	2.5	8
29	Ultrasound-mediated synthesis of nanoporous fluorite-structured high-entropy oxides toward noble metal stabilization. IScience, 2022, 25, 104214.	1.9	6
30	Reconstructed covalent organic frameworks. Nature, 2022, 604, 72-79.	13.7	190
31	Operando Highâ€Valence Crâ€Modified NiFe Hydroxides for Water Oxidation. Small, 2022, 18, e2200303.	5.2	44
32	In Operando Identification of In Situ Formed Metalloid Zinc^{Î´+} Active Sites for Highly Efficient Electrocatalyzed Carbon Dioxide Reduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	25
33	Adding MgCl₂ to Molten NaClâ€“UCl_n (n=3, 4): Insights from Firstâ€Principles Molecular Dynamics. ChemPhysChem, 2022, 23, .	1.0	2
34	Low-fatigue and large room-temperature elastocaloric effect in a bulk Ti<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si16.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>49.2</mml:mn></mml:mrow></mml:msub></mml:math>Ni<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si17.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>40.8</mml:mn></mml:mrow></mml:msub></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si18.svg"><mml:msub><mml:mrow	3.8	17
35	Solar Photocatalytic Oxidation of Methane to Methanol with Water over RuO_x/ZnO/CeO₂ Nanorods. ACS Sustainable Chemistry and Engineering, 2022, 10, 16-22.	3.2	30
36	Installation of high-valence tungsten in MIL-125(Ti) for boosted photocatalytic hydrogen evolution. Science China Materials, 2022, 65, 1237-1244.	3.5	4

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37	Co-MOF Nanosheets Etched by FeCl₂ Solution for Enhanced Electrocatalytic Oxygen Evolution. Energy & Fuels, 2022, 36, 4524-4531.	2.5	4
38	Waferâ€Scale Demonstration of MBCâ€FET and Câ€FET Arrays Based on Twoâ€Dimensional Semiconductors. Small, 2022, 18, e2107650.	5.2	15
39	Frenkel-defected monolayer MoS2 catalysts for efficient hydrogen evolution. Nature Communications, 2022, 13, 2193.	5.8	137
40	Silicalite-1 Stabilizes Zn-Hydride Species for Efficient Propane Dehydrogenation. ACS Catalysis, 2022, 12, 5997-6006.	5.5	35
41	Design of a multi-functional gel polymer electrolyte with a 3D compact stacked polymer micro-sphere matrix for high-performance lithium metal batteries. Journal of Materials Chemistry A, 2022, 10, 12563-12574.	5.2	31
42	Defect-Regulated Frustrated-Lewis-Pair Behavior of Boron Nitride in Ambient Pressure Hydrogen Activation. Journal of the American Chemical Society, 2022, 144, 10688-10693.	6.6	17
43	Mechanochemistryâ€Driven Construction of Azaâ€fused Ïâ€Conjugated Networks Toward Enhanced Energy Storage. Advanced Functional Materials, 2022, 32, .	7.8	9
44	Real-Space Local Dynamics of Molten Inorganic Salts Using Van Hove Correlation Function. Journal of Physical Chemistry Letters, 2022, 13, 5956-5962.	2.1	4
45	Defect Engineering of Ceria Nanocrystals for Enhanced Catalysis via a High-Entropy Oxide Strategy. ACS Central Science, 2022, 8, 1081-1090.	5.3	25
46	Two Ligands of Interest in Recovering Uranium from the Oceans: The Correct Formation Constants of the Uranyl(VI) Cation with 2,2â€²-Bipyridyl-6,6â€²-dicarboxylic Acid and 1,10-Phenanthroline-2,9-dicarboxylic Acid. Inorganic Chemistry, 2022, 61, 9960-9967.	1.9	6
47	Total Oxidation of Light Alkane over Phosphate-Modified Pt/CeO₂ Catalysts. Environmental Science & Technology, 2022, 56, 9661-9671.	4.6	65
48	Enhancing Cycling Stability and Capacity Retention of NMC811 Cathodes by Reengineering Interfaces via Electrochemical Fluorination (Adv. Mater. Interfaces 18/2022). Advanced Materials Interfaces, 2022, 9, .	1.9	1
49	Advanced Transmission Electron Microscopy for Identification of <scp>Atomicâ€Scale</scp> Configurations of <scp>Zeoliteâ€Supported</scp> Metal Catalysts. Chinese Journal of Chemistry, 2022, 40, 2371-2373.	2.6	4
50	Enhanced Oxygen Activation Achieved by Robust Single Chromium Atom-Derived Catalysts in Aerobic Oxidative Desulfurization. ACS Catalysis, 2022, 12, 8623-8631.	5.5	78
51	Sensitive electric field control of first-order phase transition in epitaxial multiferroic heterostructures. Acta Materialia, 2022, 237, 118145.	3.8	1
52	Facilitation of microbially induced calcite precipitation with kaolinite nucleation. Geotechnique, 2021, 71, 728-734.	2.2	15
53	Photo-functionalized TiO2 nanotubes decorated with multifunctional Ag nanoparticles for enhanced vascular biocompatibility. Bioactive Materials, 2021, 6, 45-54.	8.6	25
54	Room temperature synthesis of high-entropy Prussian blue analogues. Nano Energy, 2021, 79, 105464.	8.2	54

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55	Modified coal char materials with high rate performance for battery applications. Carbon, 2021, 172, 414-421.	5.4	21
56	Surpassing the Organic Cathode Performance for Lithium-Ion Batteries with Robust Fluorinated Covalent Quinazoline Networks. ACS Energy Letters, 2021, 6, 41-51.	8.8	32
57	Organic wastewater treatment by a single-atom catalyst and electrolytically produced H2O2. Nature Sustainability, 2021, 4, 233-241.	11.5	350
58	Collaboration between a Pt-dimer and neighboring Coâ€“Pd atoms triggers efficient pathways for oxygen reduction reaction. Physical Chemistry Chemical Physics, 2021, 23, 1822-1834.	1.3	16
59	Sacrificial Synthesis of Supported Ru Single Atoms and Clusters on Nâ€doped Carbon Derived from Covalent Triazine Frameworks: A Charge Modulation Approach. Advanced Science, 2021, 8, 2001493.	5.6	38
60	Organic Cathode Materials for Lithiumâ€Ion Batteries: Past, Present, and Future. Advanced Energy and Sustainability Research, 2021, 2, 2000044.	2.8	61
61	Sulphur as medium: Directly converting pitch into porous carbon. Fuel, 2021, 286, 119393.	3.4	17
62	Rh nanoparticle functionalized heteroatom-doped hollow carbon spheres for efficient electrocatalytic hydrogen evolution. Materials Chemistry Frontiers, 2021, 5, 3125-3131.	3.2	24
63	Enhanced OER performance of composite Coâ€“Fe-based MOF catalysts via a one-pot ultrasonic-assisted synthetic approach. Sustainable Energy and Fuels, 2021, 5, 1095-1102.	2.5	33
64	A low-valent cobalt oxide co-catalyst to boost photocatalytic water oxidation via enhanced hole-capturing ability. Journal of Materials Chemistry A, 2021, 9, 14786-14792.	5.2	18
65	Interfacial atomic Ni tetragon intercalation in a NiO₂-to-Pd hetero-structure triggers superior HER activity to the Pt catalyst. Journal of Materials Chemistry A, 2021, 9, 12019-12028.	5.2	19
66	Overcoming the phase separation within high-entropy metal carbide by poly(ionic liquid)s. Chemical Communications, 2021, 57, 3676-3679.	2.2	10
67	Low-Cost Transformation of Biomass-Derived Carbon to High-Performing Nano-graphite via Low-Temperature Electrochemical Graphitization. ACS Applied Materials & Interfaces, 2021, 13, 4393-4401.	4.0	26
68	Bifunctional Ptâ€“SnO_x nanorods for enhanced oxygen reduction and hydrogen evolution reactions. Sustainable Energy and Fuels, 2021, 5, 2960-2971.	2.5	10
69	Alkaline salt-promoted construction of hydrophilic and nitrogen deficient graphitic carbon nitride with highly improved photocatalytic efficiency. Journal of Materials Chemistry A, 2021, 9, 4700-4706.	5.2	23
70	A template-free synthesis of mesoporous SrTiO₃ single crystals. CrystEngComm, 2021, 23, 5595-5600.	1.3	2
71	Insight into the Solid Electrolyte Interphase Formation in Bis(fluorosulfonyl)Imide Based Ionic Liquid Electrolytes. Advanced Functional Materials, 2021, 31, 2008708.	7.8	30
72	Robust perfluorinated porous organic networks: Succinct synthetic strategy and application in chlorofluorocarbons adsorption. Nano Research, 2021, 14, 3282-3287.	5.8	9

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73	Engineering Permanent Porosity into Liquids. Advanced Materials, 2021, 33, e2005745.	11.1	43
74	Perovskite Oxideâ€“Halide Solid Solutions: A Platform for Electrocatalysts. Angewandte Chemie, 2021, 133, 10041-10046.	1.6	3
75	The coefficient of earth pressure at rest in hydrate-bearing sediments. Acta Geotechnica, 2021, 16, 2729-2739.	2.9	14
76	PtAuSn Nanorod Catalysts with a Beneficial Core/Shell Structure for Oxygen Reduction Electrocatalysis. ACS Applied Energy Materials, 2021, 4, 3067-3073.	2.5	8
77	Hierarchical Lignin-Based Carbon Matrix and Carbon Dot Composite Electrodes for High-Performance Supercapacitors. ACS Omega, 2021, 6, 7851-7861.	1.6	20
78	Perovskite Oxideâ€“Halide Solid Solutions: A Platform for Electrocatalysts. Angewandte Chemie - International Edition, 2021, 60, 9953-9958.	7.2	26
79	Strong Enhancement of Nanoconfined Water Mobility by a Structure Breaking Salt. Journal of Physical Chemistry Letters, 2021, 12, 4038-4044.	2.1	7
80	Benzene Ring Knitting Achieved by Ambientâ€Temperature Dehalogenation via Mechanochemical Ullmannâ€Type Reductive Coupling. Advanced Materials, 2021, 33, e2008685.	11.1	27
81	Design of Graphene/Ionic Liquid Composites for Carbon Capture. ACS Applied Materials & Interfaces, 2021, 13, 17511-17516.	4.0	17
82	Molten Salt Assisted Low-Temperature Electro-Catalytic Graphitization of Coal Chars. Journal of the Electrochemical Society, 2021, 168, 046504.	1.3	8
83	Cell-friendly photo-functionalized TiO2 nano-micro-honeycombs for selectively preventing bacteria and platelet adhesion. Materials Science and Engineering C, 2021, 123, 111996.	3.8	4
84	Interactions of an Imine Polymer with Nanoporous Silica and Carbon in Hybrid Adsorbents for Carbon Capture. Langmuir, 2021, 37, 4622-4631.	1.6	7
85	Supramolecular Selfâ€Assembled Multiâ€Electronâ€Acceptor Organic Molecule as Highâ€Performance Cathode Material for Liâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2100330.	10.2	48
86	High-entropy materials for catalysis: A new frontier. Science Advances, 2021, 7, .	4.7	294
87	Fabrication of Ionic Covalent Triazine Framework-Linked Membranes via a Facile Solâ€“Gel Approach. Chemistry of Materials, 2021, 33, 3386-3393.	3.2	20
88	Synthesis and Characterization of Macrocyclic Ionic Liquids for CO₂ Separation. Industrial & Engineering Chemistry Research, 2021, 60, 8218-8226.	1.8	6
89	Porous Liquids: Engineering Permanent Porosity into Liquids (Adv. Mater. 18/2021). Advanced Materials, 2021, 33, 2170136.	11.1	3
90	Methane Hydrate Crystallization on Sessile Water Droplets. Journal of Visualized Experiments, 2021, , .	0.2	0

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91	Dynamics of Emim⁺ in [Emim][TFSI]/LiTFSI Solutions as Bulk and under Confinement in a Quasi-liquid Solid Electrolyte. Journal of Physical Chemistry B, 2021, 125, 5443-5450.	1.2	8
92	Unraveling Local Structure of Molten Salts via X-ray Scattering, Raman Spectroscopy, and Ab Initio Molecular Dynamics. Journal of Physical Chemistry B, 2021, 125, 5971-5982.	1.2	23
93	Role of Organic Fluoride Salts in Stabilizing Niobium Oxo-Clusters Catalyzing Epoxidation. Langmuir, 2021, 37, 8190-8203.	1.6	8
94	CO₂ Chemisorption Behavior of Coordinationâ€Derived Phenolate Sorbents. ChemSusChem, 2021, 14, 2854-2859.	3.6	9
95	Polymer-Grafted Porous Silica Nanoparticles with Enhanced CO₂ Permeability and Mechanical Performance. ACS Applied Materials & Interfaces, 2021, 13, 27411-27418.	4.0	14
96	Formation of three-dimensional bicontinuous structures via molten salt dealloying studied in real-time by in situ synchrotron X-ray nano-tomography. Nature Communications, 2021, 12, 3441.	5.8	36
97	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
98	Solid Electrolyte Interphases: Insight into the Solid Electrolyte Interphase Formation in Bis(fluorosulfonyl)Imide Based Ionic Liquid Electrolytes (Adv. Funct. Mater. 23/2021). Advanced Functional Materials, 2021, 31, 2170163.	7.8	0
99	Photoinduced Strong Metalâ€“Support Interaction for Enhanced Catalysis. Journal of the American Chemical Society, 2021, 143, 8521-8526.	6.6	85
100	Molecular Dynamics Simulations of Complexation of Am(III) with a Preorganized Dicationic Ligand in an Ionic Liquid. Journal of Physical Chemistry B, 2021, 125, 8532-8538.	1.2	7
101	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
102	Investigating the Degradation of Nb₂O₅ Thin Films Across 10,000 Lithiation/Delithiation Cycles. ACS Applied Energy Materials, 2021, 4, 6542-6552.	2.5	11
103	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
104	A Cationic Ru(II) Complex Intercalated into Zirconium Phosphate Layers Catalyzes Selective Hydrogenation via Heterolytic Hydrogen Activation. ChemCatChem, 2021, 13, 3801-3814.	1.8	7
105	CO 2 Chemisorption Behavior of Coordinationâ€Derived Phenolate Sorbents. ChemSusChem, 2021, 14, 2784-2784.	3.6	2
106	Confinement of subnanometric PdCo bimetallic oxide clusters in zeolites for methane complete oxidation. Chemical Engineering Journal, 2021, 418, 129398.	6.6	40
107	Selfâ€Organized Co₃O₄â€SrCO₃ Percolative Composites Enabling Nanosized Hole Transport Pathways for Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2106121.	7.8	18
108	Formation of LiF Surface Layer During Direct Fluorination of High-Capacity Co-Free Disordered Rocksalt Cathodes. ACS Applied Materials & Interfaces, 2021, 13, 38221-38228.	4.0	13

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109	Engineering the Interlayer Spacing by Preâ€Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid (Adv. Funct. Mater. 33/2021). Advanced Functional Materials, 2021, 31, 2170246.	7.8	2
110	Synthesis of Poly(ionic Liquid)s-block-poly(methyl Methacrylate) Copolymer-Grafted Silica Particle Brushes with Enhanced CO₂ Permeability and Mechanical Performance. Langmuir, 2021, 37, 10875-10881.	1.6	7
111	Exsolutionâ€“Dissolution of Supported Metals on High-Entropy Co₃MnNiCuZnO_x: Toward Sintering-Resistant Catalysis. ACS Catalysis, 2021, 11, 12247-12257.	5.5	39
112	Structureâ€“Activity Relationships of Copper- and Potassium-Modified Iron Oxide Catalysts during Reverse Waterâ€“Gas Shift Reaction. ACS Catalysis, 2021, 11, 12609-12619.	5.5	48
113	Highly Perfluorinated Covalent Triazine Frameworks Derived from a Lowâ€Temperature Ionothermal Approach Towards Enhanced CO₂ Electroreduction. Angewandte Chemie - International Edition, 2021, 60, 25688-25694.	7.2	36
114	A Holistic Approach for Elucidating Local Structure, Dynamics, and Speciation in Molten Salts with High Structural Disorder. Journal of the American Chemical Society, 2021, 143, 15298-15308.	6.6	20
115	Highly Perfluorinated Covalent Triazine Frameworks Derived fromÂa Lowâ€Temperature IonothermalÂApproach Towards EnhancedÂCO2 Electroreduction. Angewandte Chemie, 2021, 133, 25892.	1.6	2
116	Atomically Dispersed Highâ€Density Alâ€“N₄ Sites in Porous Carbon for Efficient Photodriven CO₂ Cycloaddition. Advanced Materials, 2021, 33, e2103186.	11.1	69
117	Benchmark CO2 separation achieved by highly fluorinated nanoporous molecular sieve membranes from nonporous precursor via in situ cross-linking. Journal of Membrane Science, 2021, 638, 119698.	4.1	6
118	Probing the role of surface hydroxyls for Bi, Sn and In catalysts during CO2 Reduction. Applied Catalysis B: Environmental, 2021, 298, 120581.	10.8	54
119	Towards the object-oriented design of active hydrogen evolution catalysts on single-atom alloys. Chemical Science, 2021, 12, 10634-10642.	3.7	9
120	Radiation-Assisted Formation of Metal Nanoparticles in Molten Salts. Journal of Physical Chemistry Letters, 2021, 12, 157-164.	2.1	14
121	Self-regeneration of supported transition metals by a high entropy-driven principle. Nature Communications, 2021, 12, 5917.	5.8	30
122	Strategies toward the Synthesis of Advanced Functional Sorbent Performance for Uranium Uptake from Seawater. Industrial & Engineering Chemistry Research, 2021, 60, 15037-15044.	1.8	9
123	Flow and Arching of Biomass Particles in Wedge-Shaped Hoppers. ACS Sustainable Chemistry and Engineering, 2021, 9, 15303-15314.	3.2	10
124	Enhanced CO₂ Electrochemical Reduction Performance over Cu@AuCu Catalysts at High Noble Metal Utilization Efficiency. Nano Letters, 2021, 21, 9293-9300.	4.5	33
125	Iodine-Doping-Induced Electronic Structure Tuning of Atomic Cobalt for Enhanced Hydrogen Evolution Electrocatalysis. ACS Nano, 2021, 15, 18125-18134.	7.3	40
126	Highly Stretchable, Crack-Insensitive and Compressible Ceramic Aerogel. ACS Nano, 2021, 15, 18354-18362.	7.3	55

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127	Operando Analysis of Gas Evolution in TiNb₂O₇ (TNO)-Based Anodes for Advanced High-Energy Lithium-Ion Batteries under Fast Charging. ACS Applied Materials & Interfaces, 2021, 13, 55145-55155.	4.0	15
128	A high temperature cell for investigating interfacial structure on the molecular scale in molten salt/alloy systems. Review of Scientific Instruments, 2021, 92, 123903.	0.6	1
129	Solvent-free and mechanochemical synthesis of N-doped mesoporous carbon from tannin and related gas sorption property. Chemical Engineering Journal, 2020, 381, 122579.	6.6	39
130	A new trick for an old support: Stabilizing gold single atoms on LaFeO3 perovskite. Applied Catalysis B: Environmental, 2020, 261, 118178.	10.8	31
131	Insights from machine learning of carbon electrodes for electric double layer capacitors. Carbon, 2020, 157, 147-152.	5.4	74
132	Roomâ€Temperature Synthesis of Highâ€Entropy Perovskite Oxide Nanoparticle Catalysts through Ultrasonicationâ€Based Method. ChemSusChem, 2020, 13, 111-115.	3.6	104
133	Lithiophilic V2O5 nanobelt arrays decorated 3D framework hosts for highly stable composite lithium metal anodes. Chemical Engineering Journal, 2020, 384, 123313.	6.6	68
134	Rapid gas-assisted exfoliation promises V2O5 nanosheets for high performance lithium-sulfur batteries. Nano Energy, 2020, 67, 104253.	8.2	106
135	Boosting High-Rate Zinc-Storage Performance by the Rational Design of Mn2O3 Nanoporous Architecture Cathode. Nano-Micro Letters, 2020, 12, 14.	14.4	57
136	Sub-nanometer Pt cluster decoration enhances the oxygen reduction reaction performances of NiO_x supported Pd nano-islands. Sustainable Energy and Fuels, 2020, 4, 809-823.	2.5	19
137	In situ polymerized succinonitrile-based solid polymer electrolytes for lithium ion batteries. Solid State Ionics, 2020, 345, 115159.	1.3	24
138	O2/N2-responsive microgels as functional draw agents for gas-triggering forward osmosis desalination. Journal of Membrane Science, 2020, 595, 117584.	4.1	7
139	Molecular dynamics simulations of structural and transport properties of molten NaCl-UCl3 using the polarizable-ion model. Journal of Molecular Liquids, 2020, 299, 112184.	2.3	30
140	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
141	Layer-by-Layer Assembly Strategy for Reinforcing the Mechanical Strength of an Ionogel Electrolyte without Affecting Ionic Conductivity. ACS Applied Energy Materials, 2020, 3, 1265-1270.	2.5	12
142	Solvent-free and one-pot synthesis of ultramicroporous carbons with ultrahigh nitrogen contents for sulfur dioxide capture. Chemical Engineering Journal, 2020, 391, 123579.	6.6	32
143	Transforming Porous Organic Cages into Porous Ionic Liquids via a Supramolecular Complexation Strategy. Angewandte Chemie, 2020, 132, 2288-2292.	1.6	21
144	Transforming Porous Organic Cages into Porous Ionic Liquids via a Supramolecular Complexation Strategy. Angewandte Chemie - International Edition, 2020, 59, 2268-2272.	7.2	101

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145	Addition of Chloroform in a Solvent-in-Salt Electrolyte: Outcomes in the Microscopic Dynamics in Bulk and Confinement. Journal of Physical Chemistry C, 2020, 124, 22366-22375.	1.5	7
146	Broadening the Gas Separation Utility of Monolayer Nanoporous Graphene Membranes by an Ionic Liquid Gating. Nano Letters, 2020, 20, 7995-8000.	4.5	39
147	Hierarchically Porous Polyacrylonitrile (PAN) 3D Architectures with Anchored Lattice-Expanded Î»-MnO₂ Nanodots as Freestanding Adsorbents for Superior Lithium Separation. Industrial & Engineering Chemistry Research, 2020, 59, 13239-13245.	1.8	9
148	Tuning the Cationâ€“Anion Interactions by Methylation of the Pyridinium Cation: An X-ray Photoelectron Spectroscopy Study of Picolinium Ionic Liquids. Journal of Physical Chemistry B, 2020, 124, 6657-6663.	1.2	8
149	Direct Transformation of Glycerol to Propanal using Zirconium Phosphateâ€Supported Bimetallic Catalysts. ChemSusChem, 2020, 13, 4954-4966.	3.6	15
150	Deep Understanding of Strong Metal Interface Confinement: A Journey of Pd/FeO_x Catalysts. ACS Catalysis, 2020, 10, 8950-8959.	5.5	113
151	Sizeâ€Dependent Nickelâ€Based Electrocatalysts for Selective CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 18572-18577.	7.2	100
152	Sizeâ€Dependent Nickelâ€Based Electrocatalysts for Selective CO₂ Reduction. Angewandte Chemie, 2020, 132, 18731-18736.	1.6	30
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