Dapeng Cao

List of Publications by Year
in descending order

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306 papers	23,292 citations	9234 74 h-index	9839 141 g-index
314 all docs	314 docs citations	314 times ranked	23572 citing authors

#	Article	IF	Citations
1	A purely green approach to low-cost mass production of zeolitic imidazolate frameworks. Green Energy and Environment, 2023, 8, 775-784.	4.7	6
2	GaAs quantum dot/TiO2 heterojunction for visible-light photocatalytic hydrogen evolution: promotion of oxygen vacancy. Advanced Composites and Hybrid Materials, 2022, 5, 450-460.	9.9	28
3	Fast identification of the stability of atomically dispersed bi-atom catalysts using a structure descriptor-based model. Journal of Materials Chemistry A, 2022, 10, 1451-1462.	5.2	10
4	Ultra-small Ru nanoparticles embedded on Feâ€“Ni(OH)₂ nanosheets for efficient water splitting at a large current density with long-term stability of 680 hours. Journal of Materials Chemistry A, 2022, 10, 4817-4824.	5.2	46
5	MOF-derived CoN/CoFe/NC bifunctional electrocatalysts for zinc-air batteries. Applied Surface Science, 2022, 582, 152375.	3.1	17
6	Porous organic polymers as a platform for sensing applications. Chemical Society Reviews, 2022, 51, 2031-2080.	18.7	140
7	Steered polymorphic nanodomains in TiO₂ to boost visible-light photocatalytic oxidation. RSC Advances, 2022, 12, 9660-9670.	1.7	1
8	Electroless deposition of RuPd nanoparticles on porous carbon for hydrogen evolution in acid and alkaline media. Sustainable Energy and Fuels, 2022, 6, 2165-2169.	2.5	3
9	A dual metal-organic framework strategy for synthesis of FeCo@NC bifunctional oxygen catalysts for clean energy application. Chinese Journal of Chemical Engineering, 2022, 43, 161-168.	1.7	6
10	Single atomic Cu-Anchored 2D covalent organic framework as a nanoreactor for CO2 capture and in-situ conversion: A computational study. Chemical Engineering Science, 2022, 253, 117536.	1.9	5
11	Yolk-like Pt nanoparticles as cathode catalysts for low-Pt-loading proton-exchange membrane fuel cells. Materials Today Energy, 2022, 27, 101043.	2.5	9
12	Atomically dispersed Fe-Cu dual-site catalysts synergistically boosting oxygen reduction for hydrogen fuel cells. Chemical Engineering Journal, 2022, 446, 137112.	6.6	43
13	AgNPs@Fe-N-C oxygen reduction catalysts for anion exchange membrane fuel cells. Nano Energy, 2022, 100, 107466.	8.2	31
14	Oriented construction Cu3P and Ni2P heterojunction to boost overall water splitting. Chemical Engineering Journal, 2022, 448, 137706.	6.6	51
15	Facile synthesis of Fe₂P/Co embedded trifunctional electrocatalyst for high-performance anion exchange membrane fuel cells, rechargeable Znâ€“air batteries, and overall water splitting. Journal of Materials Chemistry A, 2022, 10, 16037-16045.	5.2	8
16	Displacement of shale gas confined in illite shale by flue gas: A molecular simulation study. Chinese Journal of Chemical Engineering, 2021, 29, 295-303.	1.7	8
17	Selective adsorption of SF6 in covalent- and metalâ€“organic frameworks. Chinese Journal of Chemical Engineering, 2021, 39, 88-95.	1.7	5
18	A Fully Conjugated 3D Covalent Organic Framework Exhibiting Bandâ€like Transport with Ultrahigh Electron Mobility. Angewandte Chemie - International Edition, 2021, 60, 9321-9325.	7.2	59

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19	A Fully Conjugated 3D Covalent Organic Framework Exhibiting Bandâ€like Transport with Ultrahigh Electron Mobility. Angewandte Chemie, 2021, 133, 9407-9411.	1.6	16
20	Paraffin/polyethylene/graphite composite phase change materials with enhanced thermal conductivity and leakage-proof. Advanced Composites and Hybrid Materials, 2021, 4, 543-551.	9.9	69
21	MXenes for polymer matrix electromagnetic interference shielding composites: A review. Composites Communications, 2021, 24, 100653.	3.3	291
22	Unlocking the potential of P3 structure for practical Sodium-ion batteries by fabricating zero strain framework for Na+ intercalation. Energy Storage Materials, 2021, 37, 354-362.	9.5	47
23	Polymerâ€based EMI shielding composites with 3D conductive networks: A miniâ€review. SusMat, 2021, 1, 413-431.	7.8	212
24	Saddleâ€Shaped Building Blocks: A New Concept for Designing Fully Conjugated 3D Organic Semiconducting Materials. Chemistry - A European Journal, 2021, 27, 12012-12018.	1.7	11
25	Frontispiece: Saddleâ€Shaped Building Blocks: A New Concept for Designing Fully Conjugated 3D Organic Semiconducting Materials. Chemistry - A European Journal, 2021, 27, .	1.7	0
26	A Three-Dimensional sp² Carbon-Conjugated Covalent Organic Framework. Journal of the American Chemical Society, 2021, 143, 15562-15566.	6.6	80
27	Dual active site tandem catalysis of metal hydroxyl oxides and single atoms for boosting oxygen evolution reaction. Applied Catalysis B: Environmental, 2021, 297, 120451.	10.8	44
28	Sulfur-modified porous covalent organic polymers as bifunctional materials for efficient fluorescence detection and fast removal of heavy metal ions. Materials Chemistry Frontiers, 2021, 5, 3428-3435.	3.2	12
29	Dissolution-enhanced emission of 1,3,6,8-tetrakis(p-benzoic acid)pyrene for selectively detecting protamine and â€œon-to-onâ€heparin detection in water. New Journal of Chemistry, 2021, 46, 345-351.	1.4	2
30	Hollow Nanotube Ru/Cu₂₊₁O Supported on Copper Foam as a Bifunctional Catalyst for Overall Water Splitting. Chemistry - A European Journal, 2020, 26, 4112-4119.	1.7	19
31	Dissolution-enhanced emission of 1,3,6,8-Tetrakis(p-benzoic acid)pyrene for detecting arginine and lysine amino acids. Dyes and Pigments, 2020, 175, 108131.	2.0	18
32	Design of Highâ€Performance Coâ€Based Alloy Nanocatalysts for the Oxygen Reduction Reaction. Chemistry - A European Journal, 2020, 26, 4128-4135.	1.7	10
33	Molecular Sizes and Antibacterial Performance Relationships of Flexible Ionic Liquid Derivatives. Journal of the American Chemical Society, 2020, 142, 20257-20269.	6.6	128
34	Role of substrate softness in stabilizing surface nanobubbles. Green Energy and Environment, 2020, 5, 374-380.	4.7	2
35	Precise molecular design for BN-modified polycyclic aromatic hydrocarbons toward mechanochromic materials. Journal of Materials Chemistry A, 2020, 8, 22023-22031.	5.2	30
36	High Energy Density Hybrid Solid-State Li-Ion Batteries Enabled by a Gel/Ceramic/Gel Sandwich Electrolyte. ACS Applied Energy Materials, 2020, 3, 5113-5119.	2.5	17

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37	InP/TiO2 heterojunction for photoelectrochemical water splitting under visible-light. International Journal of Hydrogen Energy, 2020, 45, 11615-11624.	3.8	18
38	A new concept analogous to homogeneous catalysis to construct in-situ regenerative electrodes for long-term oxygen evolution reaction. Nano Energy, 2020, 76, 105115.	8.2	14
39	Advances in Template Prepared Nanoâ€Oxides and their Applications: Polluted Water Treatment, Energy, Sensing and Biomedical Drug Delivery. Chemical Record, 2020, 20, 710-729.	2.9	29
40	Predicting Device Parameters for Dye-Sensitized Solar Cells from Electronic Structure Calculations to Reproduce Experiment. ACS Applied Energy Materials, 2020, 3, 4367-4376.	2.5	6
41	Physically Adsorbed Metal Ions in Porous Supports as Electrocatalysts for Oxygen Evolution Reaction. Advanced Functional Materials, 2020, 30, 1909889.	7.8	32
42	Oxygen-Reconstituted Active Species of Single-Atom Cu Catalysts for Oxygen Reduction Reaction. Research, 2020, 2020, 7593023.	2.8	21
43	Regioselective Functionalization of Stable BNâ€Modified Luminescent Tetraphenes for Highâ€Resolution Fingerprint Imaging. Angewandte Chemie, 2019, 131, 10238-10243.	1.6	12
44	Singleâ€Atom Ru Doping Induced Phase Transition of MoS₂ and S Vacancy for Hydrogen Evolution Reaction. Small Methods, 2019, 3, 1900653.	4.6	206
45	Superior electromagnetic interference shielding 3D graphene nanoplatelets/reduced graphene oxide foam/epoxy nanocomposites with high thermal conductivity. Journal of Materials Chemistry C, 2019, 7, 2725-2733.	2.7	342
46	Amorphous Cobalt Iron Borate Grown on Carbon Paper as a Precatalyst for Water Oxidation. ChemSusChem, 2019, 12, 3524-3531.	3.6	28
47	Design of Small Nanoparticles Decorated with Amphiphilic Ligands: Self-Preservation Effect and Translocation into a Plasma Membrane. ACS Applied Materials & Interfaces, 2019, 11, 23822-23831.	4.0	29
48	Polyaniline-coated Ru/Ni(OH)2 nanosheets for hydrogen evolution reaction over a wide pH range. Journal of Catalysis, 2019, 375, 249-256.	3.1	47
49	A permeation model of shale gas in cylindrical-like kerogen pores at geological conditions. Chemical Engineering Science, 2019, 207, 457-463.	1.9	6
50	Probing the Structural Transition Kinetics and Charge Compensation of the P2-Na_{0.78}Al_{0.05}Ni_{0.33}Mn_{0.60}O₂ Cathode for Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 24122-24131.	4.0	51
51	Regioselective Functionalization of Stable BNâ€Modified Luminescent Tetraphenes for Highâ€Resolution Fingerprint Imaging. Angewandte Chemie - International Edition, 2019, 58, 10132-10137.	7.2	55
52	Vertical CoP Nanoarray Wrapped by N,Pâ€Doped Carbon for Hydrogen Evolution Reaction in Both Acidic and Alkaline Conditions. Advanced Energy Materials, 2019, 9, 1803970.	10.2	284
53	Active Site Identification and Evaluation Criteria of In Situ Grown CoTe and NiTe Nanoarrays for Hydrogen Evolution and Oxygen Evolution Reactions. Small Methods, 2019, 3, 1900113.	4.6	78
54	Why are nanoparticles trapped at cell junctions when the cell density is high?. Nanoscale, 2019, 11, 6602-6609.	2.8	21

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55	Constructing interconnected spherical hollow conductive networks in silver platelets/reduced graphene oxide foam/epoxy nanocomposites for superior electromagnetic interference shielding effectiveness. Nanoscale, 2019, 11, 22590-22598.	2.8	130
56	Screening metal-organic frameworks for capturing radioactive gas Rn in indoor air. Journal of Hazardous Materials, 2019, 366, 624-629.	6.5	22
57	Sulfur, Nitrogen and Fluorine Tripleâ€Doped Metalâ€Free Carbon Electrocatalysts for the Oxygen Reduction Reaction. ChemElectroChem, 2019, 6, 741-747.	1.7	33
58	Hydrogen Production via Efficient Formic Acid Decomposition: Engineering the Surface Structure of Pd-Based Alloy Catalysts by Design. ACS Catalysis, 2019, 9, 781-790.	5.5	62
59	Nitrogen-doped graphitic carbons with encapsulated CoNi bimetallic nanoparticles as bifunctional electrocatalysts for rechargeable Znâ€“Air batteries. Carbon, 2019, 144, 8-14.	5.4	101
60	A Novel Zrâ€MOF as Fluorescence Turnâ€On Probe for Realâ€Time Detecting H₂S Gas and Fingerprint Identification. Small, 2018, 14, e1703822.	5.2	86
61	Decoupling of bilayer leaflets under gas supersaturation: nitrogen nanobubbles in a membrane and their implication in decompression sickness. Journal Physics D: Applied Physics, 2018, 51, 184001.	1.3	0
62	Biomass-derived FeNi alloy and nitrogen-codoped porous carbons as highly efficient oxygen reduction and evolution bifunctional electrocatalysts for rechargeable Zn-air battery. Energy Storage Materials, 2018, 12, 277-283.	9.5	176
63	Amino-Functionalized Luminescent Metalâ€“Organic Framework Test Paper for Rapid and Selective Sensing of SO₂ Gas and Its Derivatives by Luminescence Turn-On Effect. Analytical Chemistry, 2018, 90, 3608-3614.	3.2	146
64	Co,N-codoped nanotube/graphene 1D/2D heterostructure for efficient oxygen reduction and hydrogen evolution reactions. Journal of Materials Chemistry A, 2018, 6, 3926-3932.	5.2	136
65	Recent Progress in MOFâ€Derived, Heteroatomâ€Doped Porous Carbons as Highly Efficient Electrocatalysts for Oxygen Reduction Reaction in Fuel Cells. Advanced Functional Materials, 2018, 28, 1704537.	7.8	552
66	Controllable etching of MoS2 basal planes for enhanced hydrogen evolution through the formation of active edge sites. Nano Energy, 2018, 49, 634-643.	8.2	220
67	A universal principle for a rational design of single-atom electrocatalysts. Nature Catalysis, 2018, 1, 339-348.	16.1	1,214
68	Two-dimensional graphitic C₃N₅ materials: promising metal-free catalysts and CO₂ adsorbents. Journal of Materials Chemistry A, 2018, 6, 7168-7174.	5.2	58
69	Rational Design of Dithienopicenocarbazole-Based Dyes and a Prediction of Their Energy-Conversion Efficiency Characteristics for Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2018, 1, 1435-1444.	2.5	36
70	Significantly enhanced energy density of magnetite/polypyrrole nanocomposite capacitors at high rates by low magnetic fields. Advanced Composites and Hybrid Materials, 2018, 1, 127-134.	9.9	73
71	Metal-organic framework as luminescence turn-on sensor for selective detection of metal ions: Absorbance caused enhancement mechanism. Sensors and Actuators B: Chemical, 2018, 256, 839-845.	4.0	116
72	A mesoscale model for diffusion and permeation of shale gas at geological depth. AICHE Journal, 2018, 64, 1059-1066.	1.8	10

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73	Heavy metal ion removal of wastewater by zeolite-imidazolate frameworks. Separation and Purification Technology, 2018, 194, 462-469.	3.9	277
74	Pyrene-Based Covalent Organic Polymers for Enhanced Photovoltaic Performance and Solar-Driven Hydrogen Production. ACS Applied Energy Materials, 2018, 1, 7007-7013.	2.5	13
75	Robust Alginate Aerogel Absorbents for Removal of Heavy Metal and Organic Pollutant. Journal of Biobased Materials and Bioenergy, 2018, 12, 425-431.	0.1	5
76	Spontaneous insertion of GPI anchors into cholesterol-rich membrane domains. AIP Advances, 2018, 8, 055210.	0.6	4
77	Fluorescent polymer nanotubes as bifunctional materials for selective sensing and fast removal of picric acid. Sensors and Actuators B: Chemical, 2018, 274, 102-109.	4.0	30
78	Covalent Organic Polymers for Rapid Fluorescence Imaging of Latent Fingerprints. ACS Applied Materials & Interfaces, 2018, 10, 21619-21627.	4.0	21
79	Facile preparation of biomass-derived bifunctional electrocatalysts for oxygen reduction and evolution reactions. International Journal of Hydrogen Energy, 2018, 43, 8611-8622.	3.8	64
80	Single-atom cobalt electrocatalysts for foldable solid-state Zn-air battery. Nano Energy, 2018, 50, 691-698.	8.2	303
81	Unveiling the high-activity origin of single-atom iron catalysts for oxygen reduction reaction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6626-6631.	3.3	500
82	Nitrogen-doped porous carbons with ultrahigh specific surface area as bifunctional materials for dye removal of wastewater and supercapacitors. Applied Surface Science, 2018, 456, 184-194.	3.1	47
83	Biomass-derived nitrogen-doped porous carbons (NPC) and NPC/ polyaniline composites as high performance supercapacitor materials. Engineered Science, 2018, , .	1.2	62
84	Introducing Engineered Science. Engineered Science, 2018, , .	1.2	6
85	Zeolitic-imidazolate Framework (ZIF)@ZnCo-ZIF Core-shell Template Derived Co, N-doped Carbon Catalysts for Oxygen Reduction Reaction. Engineered Science, 2018, , .	1.2	15
86	Counterintuitive cooperative endocytosis of like-charged nanoparticles in cellular internalization: computer simulation and experiment. Nanotechnology, 2017, 28, 085102.	1.3	15
87	Absorption competition quenching mechanism of porous covalent organic polymer as luminescent sensor for selective sensing Fe³⁺. ChemistrySelect, 2017, 2, 1041-1047.	0.7	49
88	Adsorption and selectivity of CH 4 /CO 2 in functional group rich organic shales. Journal of Natural Gas Science and Engineering, 2017, 39, 82-89.	2.1	39
89	Poly(vinylidene fluoride) derived fluorine-doped magnetic carbon nanoadsorbents for enhanced chromium removal. Carbon, 2017, 115, 503-514.	5.4	60
90	Delaminated layered double hydroxide delivers DNA molecules as sandwich nanostructure into cells via a non-endocytic pathway. Science Bulletin, 2017, 62, 686-692.	4.3	18

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91	ZIF-derived nitrogen-doped porous carbons as highly efficient adsorbents for removal of organic compounds from wastewater. Chemical Engineering Journal, 2017, 323, 502-511.	6.6	140
92	Porous organic polymer nanotubes as luminescent probe for highly selective and sensitive detection of Fe3+. Science China Chemistry, 2017, 60, 1090-1097.	4.2	44
93	Highly selective detection of picric acid from multicomponent mixtures of nitro explosives by using COP luminescent probe. Sensors and Actuators B: Chemical, 2017, 243, 753-760.	4.0	56
94	Luminescent porous organic polymer nanotubes for highly selective sensing of H₂S. Materials Chemistry Frontiers, 2017, 1, 2643-2650.	3.2	35
95	Nitrogen and Fluorine-Codoped Porous Carbons as Efficient Metal-Free Electrocatalysts for Oxygen Reduction Reaction in Fuel Cells. ACS Applied Materials & Interfaces, 2017, 9, 32859-32867.	4.0	83
96	Designing transition metal and nitrogen-codoped SrTiO₃(001) perovskite surfaces as efficient photocatalysts for water splitting. Sustainable Energy and Fuels, 2017, 1, 1968-1980.	2.5	15
97	Nitrogen-Doped Nanoporous Carbons for Selective Separation of Ar/Kr/Xe/Rn Gases: An Experiment-Based Simulation Study. Journal of Physical Chemistry C, 2017, 121, 16308-16315.	1.5	8
98	Flexible polydimethylsiloxane/multi-walled carbon nanotubes membranous metacomposites with negative permittivity. Polymer, 2017, 125, 50-57.	1.8	379
99	I, N-Codoping Modification of TiO₂ for Enhanced Photoelectrochemical H₂O Splitting in Visible-Light Region. Journal of Physical Chemistry C, 2017, 121, 26202-26208.	1.5	11
100	Hydrogen Bond Networks of Glycol Molecules on ZIF-8 Surfaces as Semipermeable Films for Efficient Carbon Capture. Journal of Physical Chemistry C, 2017, 121, 25347-25352.	1.5	11
101	Tri-Petal Lilac-Like Perylene: Asymmetrical Substituted Platform for Regioselective Ether-Exchange Reaction. Synlett, 2017, 28, 2121-2125.	1.0	12
102	Size effect on the adsorption and dissociation of CO2 on Co nanoclusters. Applied Surface Science, 2017, 396, 539-546.	3.1	23
103	ScreeningÏ€-conjugated bridges of organic dyes for dye-sensitized solar cells with panchromatic visible light harvesting. Nanotechnology, 2016, 27, 265701.	1.3	23
104	Phosphorousâ€“Nitrogenâ€Œcodoped Carbon Materials Derived from Metalâ€“Organic Frameworks as Efficient Electrocatalysts for Oxygen Reduction Reactions. European Journal of Inorganic Chemistry, 2016, 2016, 2100-2105.	1.0	70
105	Dynamic separation of Xe and Kr by metal-organic framework and covalent-organic materials: a comparison with activated charcoal. Science China Chemistry, 2016, 59, 643-650.	4.2	24
106	Molecular Dynamics Simulation of Diffusion of Shale Oils in Montmorillonite. Journal of Physical Chemistry C, 2016, 120, 8986-8991.	1.5	64
107	Controlling the conductive network formation of polymer nanocomposites filled with nanorods through the electric field. Polymer, 2016, 101, 395-405.	1.8	11
108	Molecular simulation of displacement of shale gas by carbon dioxide at different geological depths. Chemical Engineering Science, 2016, 156, 121-127.	1.9	85

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109	Cu,N-codoped Hierarchical Porous Carbons as Electrocatalysts for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 21431-21439.	4.0	205
110	One-pot melamine derived nitrogen doped magnetic carbon nanoadsorbents with enhanced chromium removal. Carbon, 2016, 109, 640-649.	5.4	125
111	Unexpected highly reversible topotactic CO₂ sorption/desorption capacity for potassium dititanate. Journal of Materials Chemistry A, 2016, 4, 12889-12896.	5.2	27
112	PdCu alloy nanoparticle-decorated copper nanotubes as enhanced electrocatalysts: DFT prediction validated by experiment. Nanotechnology, 2016, 27, 495403.	1.3	16
113	A Rigid Nested Metalâ€“Organic Framework Featuring a Thermoresponsive Gating Effect Dominated by Counterions. Angewandte Chemie - International Edition, 2016, 55, 15027-15030.	7.2	166
114	ZIF-Derived Nitrogen-Doped Porous Carbons for Xe Adsorption and Separation. Scientific Reports, 2016, 6, 21295.	1.6	33
115	Size-Dependent Facilitation of Cancer Cell Targeting by Proteins Adsorbed on Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 30037-30047.	4.0	29
116	Enhanced near-infrared shielding ability of (Li,K)-codoped WO₃for smart windows: DFT prediction validated by experiment. Nanotechnology, 2016, 27, 075203.	1.3	28
117	Porous covalent organic polymers as luminescent probes for highly selective sensing of Fe3+ and chloroform: Functional group effects. Sensors and Actuators B: Chemical, 2016, 226, 273-278.	4.0	80
118	Destruction and recovery of a nanorod conductive network in polymer nanocomposites via molecular dynamics simulation. Soft Matter, 2016, 12, 3074-3083.	1.2	11
119	Bandgap engineering of MagnÃ©li phase TinO2nâ^'1: Electron-hole self-compensation. Journal of Chemical Physics, 2015, 143, 054701.	1.2	10
120	Dâ€“Ï€â€“Aâ€“Ï€â€“A Strategy to Design Benzothiadiazoleâ€“carbazoleâ€based Conjugated Polymer with High Solar Cell Voltage and Enhanced Photocurrent. Macromolecular Rapid Communications, 2015, 36, 2156-2161.	2.0	5
121	PAF-derived nitrogen-doped 3D Carbon Materials for Efficient Energy Conversion and Storage. Scientific Reports, 2015, 5, 8307.	1.6	28
122	Enhancement Mechanism of the Conversion Effficiency of Dye-Sensitized Solar Cells Based on Nitrogen-, Fluorine-, and Iodine-Doped TiO₂ Photoanodes. Journal of Physical Chemistry C, 2015, 119, 13425-13432.	1.5	21
123	Well-defined two dimensional covalent organic polymers: rational design, controlled syntheses, and potential applications. Polymer Chemistry, 2015, 6, 1896-1911.	1.9	189
124	From Inorganic to Organic Strategy To Design Porous Aromatic Frameworks for High-Capacity Gas Storage. Journal of Physical Chemistry C, 2015, 119, 3260-3267.	1.5	15
125	Design strategy of cell-penetrating copolymers for high efficient drugÂdelivery. Biomaterials, 2015, 52, 171-179.	5.7	14
126	Screening donor groups of organic dyes for dye-sensitized solar cells. RSC Advances, 2015, 5, 22892-22898.	1.7	44

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127	Diffusion and Separation of H₂, CH₄, CO₂, and N₂ in Diamond-Like Frameworks. Journal of Physical Chemistry C, 2015, 119, 6324-6330.	1.5	37
128	Color tunable porous organic polymer luminescent probes for selective sensing of metal ions and nitroaromatic explosives. Journal of Materials Chemistry C, 2015, 3, 8490-8494.	2.7	103
129	Molecular dynamics simulation of the conductivity mechanism of nanorod filled polymer nanocomposites. Physical Chemistry Chemical Physics, 2015, 17, 22959-22968.	1.3	27
130	Selective capture of trace sulfur gas by porous covalent-organic materials. Chemical Engineering Science, 2015, 135, 373-380.	1.9	25
131	Systematic Tuning and Multifunctionalization of Covalent Organic Polymers for Enhanced Carbon Capture. Journal of the American Chemical Society, 2015, 137, 13301-13307.	6.6	202
132	Zeolitic imidazolate framework-derived nitrogen-doped porous carbons as high performance supercapacitor electrode materials. Carbon, 2015, 85, 51-59.	5.4	275
133	Nanoparticle hardness controls the internalization pathway for drug delivery. Nanoscale, 2015, 7, 2758-2769.	2.8	86
134	Highly sensitive and selective detection of 2,4,6-trinitrophenol using covalent-organic polymer luminescent probes. Journal of Materials Chemistry A, 2015, 3, 92-96.	5.2	132
135	Flameâ€Retardant Polypropylene/Multiwall Carbon Nanotube Nanocomposites: Effects of Surface Functionalization and Surfactant Molecular Weight. Macromolecular Chemistry and Physics, 2014, 215, 327-340.	1.1	75
136	Adsorption and Diffusion of Shale Gas Reservoirs in Modeled Clay Minerals at Different Geological Depths. Energy & Fuels, 2014, 28, 7467-7473.	2.5	113
137	Existence of a Glassy Layer in the Polymerâ€<scp>N</scp>anosheet Interface: Evidence from Molecular Dynamics. Macromolecular Theory and Simulations, 2014, 23, 36-48.	0.6	38
138	Synthesis of Cu@Pd core-shell nanowires with enhanced activity and stability for formic acid oxidation. Electrochimica Acta, 2014, 143, 44-48.	2.6	52
139	Improving Energy Conversion Efficiency of Dye-Sensitized Solar Cells by Modifying TiO₂ Photoanodes with Nitrogen-Reduced Graphene Oxide. ACS Sustainable Chemistry and Engineering, 2014, 2, 1234-1240.	3.2	59
140	Nitrogen-doped graphene as an excellent candidate for selective gas sensing. Science China Chemistry, 2014, 57, 911-917.	4.2	55
141	Highly Efficient Electrocatalysts for Oxygen Reduction Based on 2D Covalent Organic Polymers Complexed with Nonâ€precious Metals. Angewandte Chemie - International Edition, 2014, 53, 2433-2437.	7.2	417
142	Molecular dynamics simulation of dispersion and aggregation kinetics of nanorods in polymer nanocomposites. Polymer, 2014, 55, 1273-1281.	1.8	39
143	Revisiting density functionals for the primitive model of electric double layers. Journal of Chemical Physics, 2014, 140, 044714.	1.2	50
144	Adsorption and Separation of Xe in Metalâ€“Organic Frameworks and Covalentâ€“Organic Materials. Journal of Physical Chemistry C, 2014, 118, 10221-10229.	1.5	29

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145	Nitrogenâ€Doped Holey Graphitic Carbon from 2D Covalent Organic Polymers for Oxygen Reduction. Advanced Materials, 2014, 26, 3315-3320.	11.1	292
146	A contact-corrected density functional theory for electrolytes at an interface. Physical Chemistry Chemical Physics, 2014, 16, 3934.	1.3	26
147	Computer Screening of Dopants for the Development of New SnO2-Based Transparent Conducting Oxides. Journal of Physical Chemistry C, 2014, 118, 2037-2043.	1.5	26
148	Fracture mechanism of amorphous polymers at strain fields. Physical Chemistry Chemical Physics, 2014, 16, 24892-24898.	1.3	14
149	Design of the Alkali-Metal-Doped WO₃ as a Near-Infrared Shielding Material for Smart Window. Industrial & Engineering Chemistry Research, 2014, 53, 17981-17988.	1.8	68
150	An amino group functionalized metalâ€“organic framework as a luminescent probe for highly selective sensing of Fe3+ ions. Journal of Materials Chemistry A, 2014, 2, 7662.	5.2	312
151	Kinetic Charging Inversion in Ionic Liquid Electric Double Layers. Journal of Physical Chemistry Letters, 2014, 5, 2195-2200.	2.1	62
152	Uniaxial deformation of nanorod filled polymer nanocomposites: a coarse-grained molecular dynamics simulation. Physical Chemistry Chemical Physics, 2014, 16, 16039.	1.3	33
153	Molecular dynamics simulation of the rupture mechanism in nanorod filled polymer nanocomposites. Physical Chemistry Chemical Physics, 2014, 16, 18483.	1.3	18
154	A facile and versatile method for preparation of colored TiO₂ with enhanced solar-driven photocatalytic activity. Nanoscale, 2014, 6, 10216-10223.	2.8	382
155	ZIF-derived in situ nitrogen-doped porous carbons as efficient metal-free electrocatalysts for oxygen reduction reaction. Energy and Environmental Science, 2014, 7, 442-450.	15.6	719
156	Fluorite TiO₂(111) Surface Phase for Enhanced Visible-Light Solar Energy Conversion. Journal of Physical Chemistry C, 2014, 118, 20107-20111.	1.5	15
157	A spontaneous penetration mechanism of patterned nanoparticles across a biomembrane. Soft Matter, 2014, 10, 6844.	1.2	34
158	Designing triphenylamine derivative dyes for highly effective dye-sensitized solar cells with near-infrared light harvesting up to 1100 nm. RSC Advances, 2014, 4, 48750-48757.	1.7	21
159	A DIH-based equation for separation of CO2â€“CH4 in metalâ€“organic frameworks and covalentâ€“organic materials. Journal of Materials Chemistry A, 2014, 2, 11341.	5.2	28
160	Understanding the Mechanism of Photocatalysis Enhancements in the Graphene-like Semiconductor Sheet/TiO2 Composites. Journal of Physical Chemistry C, 2014, 118, 5954-5960.	1.5	65
161	ZIF-derived porous carbon: a promising supercapacitor electrode material. Journal of Materials Chemistry A, 2014, 2, 12873.	5.2	171
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