Yu Han

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/470577/publications.pdf

Version: 2024-02-01

		2962	3254
373	40,768	96	191
papers	citations	h-index	g-index

384	384	384	45766
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	PainlevÃ©â€“Kuratowski convergences of the solution sets for set optimization problems with cone-quasiconnectedness. Optimization, 2022, 71, 2185-2208.	1.0	5
2	Evaluating impacts of coastal flooding on the transportation system using an activity-based travel demand model: a case study in Miami-Dade County, FL. Transportation, 2022, 49, 163-184.	2.1	6
3	Connectedness of the approximate solution sets for set optimization problems. Optimization, 2022, 71, 4819-4834.	1.0	7
4	Facile Exfoliation of Two-Dimensional Crystalline Monolayer Nanosheets from an Amorphous Metalâ€“Organic Framework. CCS Chemistry, 2022, 4, 1879-1888.	4.6	12
5	Risk-based flood adaptation assessment for large-scale buildings in coastal cities using cloud computing. Sustainable Cities and Society, 2022, 76, 103415.	5.1	10
6	Laserâ€Assisted Synthesis of Ag₂Sâ€Quantumâ€Dotâ€inâ€Perovskite Matrix and Its Application in Broadband Photodetectors. Advanced Optical Materials, 2022, 10, 2101535.	3.6	10
7	State-of-the-art polymers of intrinsic microporosity for high-performance gas separation membranes. Current Opinion in Chemical Engineering, 2022, 35, 100755.	3.8	34
8	Over 18% ternary polymer solar cells enabled by a terpolymer as the third component. Nano Energy, 2022, 92, 106681.	8.2	97
9	Oriented Twoâ€Dimensional Covalent Organic Framework Membranes with High Ion Flux and Smart Gating Nanofluidic Transport. Angewandte Chemie, 2022, 134, .	1.6	10
10	Perovskite-Nanosheet Sensitizer for Highly Efficient Organic X-ray Imaging Scintillator. ACS Energy Letters, 2022, 7, 10-16.	8.8	72
11	Agentâ€based Modeling to Evaluate Humanâ€“Environment Interactions in Community Flood Risk Mitigation. Risk Analysis, 2022, 42, 2041-2061.	1.5	7
12	Highly dispersed Pd nanoparticles confined in ZSM-5 zeolite crystals for selective hydrogenation of cinnamaldehyde. Microporous and Mesoporous Materials, 2022, 330, 111566.	2.2	9
13	Low temperature inhibits anthocyanin accumulation in strawberry fruit by activating FvMAPK3-induced phosphorylation of FvMYB10 and degradation of Chalcone Synthase 1. Plant Cell, 2022, 34, 1226-1249.	3.1	46
14	China Sponge City database development and urban runoff source control facility configuration comparison between China and the US. Journal of Environmental Management, 2022, 304, 114241.	3.8	14
15	Wafer-scale single-crystal monolayer graphene grown on sapphire substrate. Nature Materials, 2022, 21, 740-747.	13.3	92
16	Engineering the interplanar spacing of K-birnessite for ultra-long cycle Zn-ion battery through â€œhydrothermal potassium insertionâ€•strategy. Chemical Engineering Journal, 2022, 435, 134754.	6.6	9
17	Analysis of the n-GaN electrochemical etching process and its mechanism in oxalic acid. RSC Advances, 2022, 12, 4648-4655.	1.7	10
18	Two-in-One MOF Structure with Tunable Porosity for Enhanced Separation. ACS Central Science, 2022, 8, 150-152.	5.3	9

#	Article	IF	Citations
19	Free-standing homochiral 2D monolayers by exfoliation of molecular crystals. Nature, 2022, 602, 606-611.	13.7	60
20	Carbon nanotube supported oriented metal organic framework membrane for effective ethylene/ethane separation. Science Advances, 2022, 8, eabm6741.	4.7	46
21	Cryogenic Focused Ion Beam Enables Atomic-Resolution Imaging of Local Structures in Highly Sensitive Bulk Crystals and Devices. Journal of the American Chemical Society, 2022, 144, 3182-3191.	6.6	28
22	Balancing uptake and selectivity in a copper-based metalâ€“organic framework for xenon and krypton separation. Separation and Purification Technology, 2022, 291, 120932.	3.9	9
23	A Career in Catalysis: Jean-Marie M. Basset. ACS Catalysis, 2022, 12, 4961-4977.	5.5	3
24	Interface Engineering of Biâ€Fluorescence Molecules for Highâ€Performance Data Encryption and Ultralow UVâ€Light Detection. Advanced Optical Materials, 2022, 10, .	3.6	5
25	Low-Dose Electron Microscopy Imaging of Electron Beam-Sensitive Crystalline Materials. Accounts of Materials Research, 2022, 3, 552-564.	5.9	17
26	Pd speciation on black phosphorene in a CO and C₂H₄ atmosphere: a first-principles investigation. Physical Chemistry Chemical Physics, 2022, 24, 14284-14293.	1.3	1
27	Efficient and simultaneous capture of iodine and methyl iodide achieved by a covalent organic framework. Nature Communications, 2022, 13, .	5.8	101
28	Three-dimensional stacked filter (3DSF): a nonlinear filter for series images of TEM. Ultramicroscopy, 2022, 240, 113560.	0.8	1
29	Ultrafine Sb nanoparticles in situ confined in covalent organic frameworks for high-performance sodium-ion battery anodes. Journal of Materials Chemistry A, 2022, 10, 15089-15100.	5.2	19
30	Quantitative Evaluation of Carrier Dynamics in Full-Spectrum Responsive Metallic ZnIn₂S₄ with Indium Vacancies for Boosting Photocatalytic CO₂ Reduction. Nano Letters, 2022, 22, 4970-4978.	4.5	54
31	Separation of hexane isomers by introducing â€œtriangular-like and quadrilateral-like channelsâ€• in a bcu-type metal-organic framework. Nano Research, 2021, 14, 526-531.	5.8	14
32	Synthesis of a microporous poly-benzimidazole as high performance anode materials for lithium-ion batteries. Chemical Engineering Journal, 2021, 405, 126621.	6.6	8
33	Gas separation and water desalination performance of defect-free interfacially polymerized para-linked polyamide thin-film composite membranes. Journal of Membrane Science, 2021, 618, 118572.	4.1	35
34	Gas-sieving zeolitic membranes fabricated by condensation of precursor nanosheets. Nature Materials, 2021, 20, 362-369.	13.3	86
35	Liquid Nanoparticles: Manipulating the Nucleation and Growth of Nanoscale Droplets. Angewandte Chemie - International Edition, 2021, 60, 3047-3054.	7.2	18
36	Noble metal nanowire arrays as an ethanol oxidation electrocatalyst. Nanoscale Advances, 2021, 3, 177-181.	2.2	6

#	Article	IF	Citations
37	Liquid Nanoparticles: Manipulating the Nucleation and Growth of Nanoscale Droplets. Angewandte Chemie, 2021, 133, 3084-3091.	1.6	4
38	Artificial channels for confined mass transport at the sub-nanometre scale. Nature Reviews Materials, 2021, 6, 294-312.	23.3	263
39	Building-level adaptation analysis under uncertain sea-level rise. Climate Risk Management, 2021, 32, 100305.	1.6	6
40	High-performance polymer molecular sieve membranes prepared by direct fluorination for efficient helium enrichment. Journal of Materials Chemistry A, 2021, 9, 18313-18322.	5.2	28
41	Probing the Catalytic Active Sites of Mo/HZSM-5 and Their Deactivation during Methane Dehydroaromatization. Cell Reports Physical Science, 2021, 2, 100309.	2.8	17
42	Layer number dependent ferroelasticity in 2D Ruddlesdenâ€“Popper organic-inorganic hybrid perovskites. Nature Communications, 2021, 12, 1332.	5.8	28
43	RÃ¼cktitelbild: Liquid Nanoparticles: Manipulating the Nucleation and Growth of Nanoscale Droplets (Angew. Chem. 6/2021). Angewandte Chemie, 2021, 133, 3352-3352.	1.6	0
44	Single-Crystalline Ultrathin 2D Porous Nanosheets of Chiral Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 3509-3518.	6.6	80
45	Highâ€Efficiency Separation ofnâ€Hexane by a Dynamic Metalâ€Organic Framework with Reduced Energy Consumption. Angewandte Chemie - International Edition, 2021, 60, 10593-10597.	7.2	42
46	A nitrogen-rich covalent organic framework for simultaneous dynamic capture of iodine and methyl iodide. CheM, 2021, 7, 699-714.	5.8	197
47	Short-Range Ordered Iridium Single Atoms Integrated into Cobalt Oxide Spinel Structure for Highly Efficient Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2021, 143, 5201-5211.	6.6	287
48	Highly Active Heterogeneous Catalyst for Ethylene Dimerization Prepared by Selectively Doping Ni on the Surface of a Zeolitic Imidazolate Framework. Journal of the American Chemical Society, 2021, 143, 7144-7153.	6.6	42
49	Molecular Scalpel to Chemically Cleave Metalâ€“Organic Frameworks for Induced Phase Transition. Journal of the American Chemical Society, 2021, 143, 6681-6690.	6.6	103
50	Nano-Confinement Effects on Structural Development and Organic Solvent-Induced Swelling of Ultrathin Carbon Molecular Sieve Films. ACS Applied Materials & Interfaces, 2021, 13, 21765-21774.	4.0	7
51	A Roadmap to Sorption-Based Atmospheric Water Harvesting: From Molecular Sorption Mechanism to Sorbent Design and System Optimization. Environmental Science & Technology, 2021, 55, 6542-6560.	4.6	86
52	Defect engineering of photocatalysts for solar-driven conversion of CO2 into valuable fuels. Materials Today, 2021, 50, 358-384.	8.3	66
53	Luminescent Copper(I) Halides for Optoelectronic Applications. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100138.	1.2	22
54	Tumor-Associated-Macrophage-Membrane-Coated Nanoparticles for Improved Photodynamic Immunotherapy. Nano Letters, 2021, 21, 5522-5531.	4.5	106

#	Article	IF	Citations
55	Identification and QTL Analysis of Flavonoids and Carotenoids in Tetraploid Roses Based on an Ultra-High-Density Genetic Map. Frontiers in Plant Science, 2021, 12, 682305.	1.7	12
56	[Cu₃₆H₁₀(PET)₂₄(PPh₃)₆Cl₂] Reveals Surface Vacancy Defects in Ligand-Stabilized Metal Nanoclusters. Journal of the American Chemical Society, 2021, 143, 11026-11035.	6.6	46
57	Upgrading Octane Number of Naphtha by a Robust and Easily Attainable Metalâ€Organic Framework through Selective Molecular Sieving of Alkane Isomers. Chemistry - A European Journal, 2021, 27, 11795-11798.	1.7	20
58	Air-Resistant Lead Halide Perovskite Nanocrystals Embedded into Polyimide of Intrinsic Microporosity. Energy Material Advances, 2021, 2021, .	4.7	21
59	Recent Progress on Polymers of Intrinsic Microporosity and Thermally Modified Analogue Materials for Membraneâ€Based Fluid Separations. Small Structures, 2021, 2, 2100049.	6.9	62
60	Modifying Ionic Membranes with Carbon Dots Enables Direct Production of High-Purity Hydrogen through Water Electrolysis. ACS Applied Materials & Interfaces, 2021, 13, 39304-39310.	4.0	6
61	Possible Misidentification of Heteroatom Species in Scanning Transmission Electron Microscopy Imaging of Zeolites. Journal of Physical Chemistry C, 2021, 125, 18952-18960.	1.5	8
62	The Complex Crystal Structure and Abundant Local Defects of Zeolite EMMâ€17 Unraveled by Combined Electron Crystallography and Microscopy. Angewandte Chemie, 2021, 133, 24429.	1.6	0
63	The Complex Crystal Structure and Abundant Local Defects of Zeolite EMMâ€17 Unraveled by Combined Electron Crystallography and Microscopy. Angewandte Chemie - International Edition, 2021, 60, 24227-24233.	7.2	9
64	Recent Progress on Polymers of Intrinsic Microporosity and Thermally Modified Analogue Materials for Membraneâ€Based Fluid Separations. Small Structures, 2021, 2, 2170026.	6.9	8
65	Ionic Functionalization of Multivariate Covalent Organic Frameworks to Achieve an Exceptionally High Iodineâ€Capture Capacity. Angewandte Chemie - International Edition, 2021, 60, 22432-22440.	7.2	148
66	Phase and morphology evolution of NaGdF4:Yb,Er nanocrystals with power density-dependent upconversion fluorescence via one-step microwave-assisted solvothermal method. Journal of Luminescence, 2021, 239, 118283.	1.5	1
67	Copper-comprising nanocrystals as well-defined electrocatalysts to advance electrochemical CO2 reduction. Journal of Energy Chemistry, 2021, 62, 71-102.	7.1	26
68	The formation and evolution of carbonate species in CO oxidation over mono-dispersed Fe on graphene. Physical Chemistry Chemical Physics, 2021, 23, 10509-10517.	1.3	8
69	Multiscale Assembly of [AgS 4] Tetrahedrons into Hierarchical Agâ€“S Networks for Robust Photonic Water. Advanced Materials, 2021, 33, 2006459.	11.1	12
70	Electrochemical reduction of carbon dioxide with nearly 100% carbon monoxide faradaic efficiency from vacancy-stabilized single-atom active sites. Journal of Materials Chemistry A, 2021, 9, 24955-24962.	5.2	30
71	PmSOC1s and PmDAMs participate in flower bud dormancy of Prunus mume by forming protein complexes and responding to ABA. European Journal of Horticultural Science, 2021, 86, 480-490.	0.3	3
72	Cyanamide Passivation Enables Robust Elemental Imaging of Metal Halide Perovskites at Atomic Resolution. Journal of Physical Chemistry Letters, 2021, 12, 10402-10409.	2.1	15

#	Article	IF	Citations
73	Efficient separation of xylene isomers by using a robust calcium-based metalâ€“organic framework through a synergetic thermodynamically and kinetically controlled mechanism. Journal of Materials Chemistry A, 2021, 9, 26202-26207.	5.2	7
74	Propane Dehydrogenation Catalyzed by Isolated Pt Atoms in â‰¡SiOZnâ€“OH Nests in Dealuminated Zeolite Beta. Journal of the American Chemical Society, 2021, 143, 21364-21378.	6.6	92
75	Designing Subâ€2â€…nm Organosilica Nanohybrids for Farâ€Field Superâ€Resolution Imaging. Angewandte Chemie, 2020, 132, 756-761.	1.6	3
76	Designing Subâ€2â€…nm Organosilica Nanohybrids for Farâ€Field Superâ€Resolution Imaging. Angewandte Chemie - International Edition, 2020, 59, 746-751.	7.2	19
77	Direct Imaging of Atomically Dispersed Molybdenum that Enables Location of Aluminum in the Framework of Zeolite ZSMâ€5. Angewandte Chemie - International Edition, 2020, 59, 819-825.	7.2	125
78	Direct Imaging of Atomically Dispersed Molybdenum that Enables Location of Aluminum in the Framework of Zeolite ZSMâ€5. Angewandte Chemie, 2020, 132, 829-835.	1.6	33
79	Recent Progress of Atmospheric Water Harvesting Using Metal-Organic Frameworks. Chemical Research in Chinese Universities, 2020, 36, 33-40.	1.3	36
80	Nanoscale pathways for human tooth decay â€“ Central planar defect, organic-rich precipitate and high-angle grain boundary. Biomaterials, 2020, 235, 119748.	5.7	26
81	Selfâ€Assembly of Highly Stable Zirconium(IV) Coordination Cages with Aggregation Induced Emission Molecular Rotors for Liveâ€Cell Imaging. Angewandte Chemie - International Edition, 2020, 59, 10151-10159.	7.2	99
82	The stability and extended well-posedness of the solution sets for set optimization problems via the PainlevÃ©â€“Kuratowski convergence. Mathematical Methods of Operations Research, 2020, 91, 175-196.	0.4	18
83	Atomic Spatial and Temporal Imaging of Local Structures and Light Elements inside Zeolite Frameworks. Advanced Materials, 2020, 32, e1906103.	11.1	81
84	Connectedness of weak minimal solution set for set optimization problems. Operations Research Letters, 2020, 48, 820-826.	0.5	13
85	Simultaneous generation of atmospheric water and electricity using a hygroscopic aerogel with fast sorption kinetics. Nano Energy, 2020, 78, 105326.	8.2	72
86	Anodic SnO₂ porous nanostructures with rich grain boundaries for efficient CO₂ electroreduction to formate. RSC Advances, 2020, 10, 22828-22835.	1.7	7
87	Mixed-dimensional MXene-hydrogel heterostructures for electronic skin sensors with ultrabroad working range. Science Advances, 2020, 6, .	4.7	182
88	Bulk and local structures of metalâ€“organic frameworks unravelled by high-resolution electron microscopy. Communications Chemistry, 2020, 3, .	2.0	57
89	Bortezomib-Encapsulated CuS/Carbon Dot Nanocomposites for Enhanced Photothermal Therapy via Stabilization of Polyubiquitinated Substrates in the Proteasomal Degradation Pathway. ACS Nano, 2020, 14, 10688-10703.	7.3	88
90	Room-Temperature Valley Polarization in Atomically Thin Semiconductors via Chalcogenide Alloying. ACS Nano, 2020, 14, 9873-9883.	7.3	30

#	Article	IF	Citations
91	Uniform High-k Amorphous Native Oxide Synthesized by Oxygen Plasma for Top-Gated Transistors. Nano Letters, 2020, 20, 7469-7475.	4.5	37
92	An agent-based model for community flood adaptation under uncertain sea-level rise. Climatic Change, 2020, 162, 2257-2276.	1.7	10
93	Extension of Surface Organometallic Chemistry to Metalâ€“Organic Frameworks: Development of a Well-Defined Single Site [(â‰¡Zrâ€“Oâˆ˜)W(â•O)(CH₂^tBu)₃] Olefin Metathesis Catalyst. Journal of the American Chemical Society, 2020, 142, 16690-16703.	6.6	31
94	Stability of the set of solutions for generalized vector equilibrium problems with cone constraints. Optimization, 2020, , 1-27.	1.0	3
95	Adsorption, diffusion and aggregation of Ir atoms on graphdiyne: a first-principles investigation. Physical Chemistry Chemical Physics, 2020, 22, 25841-25847.	1.3	7
96	3D Crumpled Ultrathin 1T MoS₂ for Inkjet Printing of Mg-Ion Asymmetric Micro-supercapacitors. ACS Nano, 2020, 14, 7308-7318.	7.3	100
97	Direct Pyrolysis of Supermolecules: An Ultrahigh Edgeâ€Nitrogen Doping Strategy of Carbon Anodes for Potassiumâ€Ion Batteries. Advanced Materials, 2020, 32, e2000732.	11.1	164
98	Long-lasting direct capture of xylene from air using covalent-triazine frameworks through multiple C-Hâ€¦Ï€ weak interactions. Chemical Engineering Journal, 2020, 400, 125888.	6.6	8
99	A Hausdorff-type distance, the Clarke generalized directional derivative and applications in set optimization problems. Applicable Analysis, 2020, , 1-18.	0.6	8
100	Splitting Mono- and Dibranched Alkane Isomers by a Robust Aluminum-Based Metalâ€“Organic Framework Material with Optimal Pore Dimensions. Journal of the American Chemical Society, 2020, 142, 6925-6929.	6.6	60
101	Intramolecular Hydrogen Bonding-Based Topology Regulation of Two-Dimensional Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 13162-13169.	6.6	85
102	Methanol-to-Olefin Conversion over Small-Pore DDR Zeolites: Tuning the Propylene Selectivity via the Olefin-Based Catalytic Cycle. ACS Catalysis, 2020, 10, 3009-3017.	5.5	12
103	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. ACS Energy Letters, 2020, 5, 793-798.	8.8	208
104	Investigating the Origin of Enhanced C₂₊ Selectivity in Oxide-/Hydroxide-Derived Copper Electrodes during CO₂ Electroreduction. Journal of the American Chemical Society, 2020, 142, 4213-4222.	6.6	236
105	Engineering effective structural defects of metalâ€“organic frameworks to enhance their catalytic performances. Journal of Materials Chemistry A, 2020, 8, 4464-4472.	5.2	66
106	Selective Acetylene Adsorption within an Imino-Functionalized Nanocage-Based Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2020, 12, 5999-6006.	4.0	33
107	Bifunctional polymer-of-intrinsic-microporosity membrane for flexible Li/Naâ€“H₂O₂ batteries with hybrid electrolytes. Journal of Materials Chemistry A, 2020, 8, 3491-3498.	5.2	8
108	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. Nature Energy, 2020, 5, 131-140.	19.8	894

#	Article	IF	Citations
109	Superior Catalytic Performance of Atomically Dispersed Palladium on Graphene in CO Oxidation. ACS Catalysis, 2020, 10, 3084-3093.	5.5	44
110	Atomicâ€Resolution Imaging of Halide Perovskites Using Electron Microscopy. Advanced Energy Materials, 2020, 10, 1904006.	10.2	57
111	[Cu₈₁(PhS)₄₆(^tBuNH₂)₁₀(H)₃₂]³⁺ Reveals the Coexistence of Large Planar Cores and Hemispherical Shells in High-Nuclearity Copper Nanoclusters. Journal of the American Chemical Society, 2020, 142, 8696-8705.	6.6	81
112	Finely Tuned Submicroporous Thinâ€Film Molecular Sieve Membranes for Highly Efficient Fluid Separations. Advanced Materials, 2020, 32, e2001132.	11.1	59
113	Facile synthesis and gas transport properties of HÃ¼nlich's base-derived intrinsically microporous polyimides. Polymer, 2020, 201, 122619.	1.8	14
114	Chiral Nanoparticleâ€Induced Enantioselective Amplification of Molecular Optical Activity. Advanced Functional Materials, 2019, 29, 1807307.	7.8	29
115	Direct Imaging of Tunable Crystal Surface Structures of MOF MIL-101 Using High-Resolution Electron Microscopy. Journal of the American Chemical Society, 2019, 141, 12021-12028.	6.6	93
116	RcAP1, a Homolog of APETALA1, is Associated with Flower Bud Differentiation and Floral Organ Morphogenesis in Rosa chinensis. International Journal of Molecular Sciences, 2019, 20, 3557.	1.8	10
117	Direct, Selective Production of Aromatic Alcohols from Ethanol Using a Tailored Bifunctional Cobaltâ€“Hydroxyapatite Catalyst. ACS Catalysis, 2019, 9, 7204-7216.	5.5	49
118	Emergence of multiple fluorophores in individual cesium lead bromide nanocrystals. Nature Communications, 2019, 10, 2930.	5.8	41
119	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. Joule, 2019, 3, 1963-1976.	11.7	222
120	Quantum-Dot-Derived Catalysts for CO2 Reduction Reaction. Joule, 2019, 3, 1703-1718.	11.7	106
121	3D Hierarchical ZnIn₂S₄ Nanosheets with Rich Zn Vacancies Boosting Photocatalytic CO₂ Reduction. Advanced Functional Materials, 2019, 29, 1905153.	7.8	308
122	Identification of Candidate Adaxialâ€“Abaxial-Related Genes Regulating Petal Expansion During Flower Opening in Rosa chinensis â€œOld Blushâ€. Frontiers in Plant Science, 2019, 10, 1098.	1.7	12
123	Dissecting the Genome-Wide Evolution and Function of R2R3-MYB Transcription Factor Family in Rosa chinensis. Genes, 2019, 10, 823.	1.0	14
124	Electrostatic Stabilization of Single-Atom Catalysts by Ionic Liquids. CheM, 2019, 5, 3207-3219.	5.8	131
125	Electrochemical Conversion of CO₂ to 2-Bromoethanol in a Membraneless Cell. ACS Energy Letters, 2019, 4, 600-605.	8.8	21
126	Hollow capsules of doped carbon incorporating metal@metal sulfide and metal@metal oxide coreâ€“shell nanoparticles derived from metalâ€“organic framework composites for efficient oxygen electrocatalysis. Journal of Materials Chemistry A, 2019, 7, 3624-3631.	5.2	53

#	Article	IF	Citations
127	Photoinduced synthesis of Bi₂O₃ nanotubes based on oriented attachment. Journal of Materials Chemistry A, 2019, 7, 1424-1428.	5.2	9
128	Gate tunable giant anisotropic resistance in ultra-thin GaTe. Nature Communications, 2019, 10, 2302.	5.8	72
129	Two-dimensional semiconducting covalent organic frameworks via condensation at arylmethyl carbon atoms. Nature Communications, 2019, 10, 2467.	5.8	414
130	Plasmonicâ€Enhanced Light Harvesting and Perovskite Solar Cell Performance Using Au Biometric Dimers with Broadband Structural Darkness. Solar Rrl, 2019, 3, 1900138.	3.1	34
131	Ultra-selective carbon molecular sieve membranes for natural gas separations based on a carbon-rich intrinsically microporous polyimide precursor. Journal of Membrane Science, 2019, 585, 1-9.	4.1	104
132	Imaging defects and their evolution in a metalâ€“organic framework at sub-unit-cell resolution. Nature Chemistry, 2019, 11, 622-628.	6.6	371
133	Towards super-clean graphene. Nature Communications, 2019, 10, 1912.	5.8	133
134	The integration of local government, residents, and insurance in coastal adaptation: An agent-based modeling approach. Computers, Environment and Urban Systems, 2019, 76, 69-79.	3.3	19
135	Arcwise connectedness of the solution sets for set optimization problems. Operations Research Letters, 2019, 47, 168-172.	0.5	16
136	Interactions between WUSCHEL- and CYC2-like Transcription Factors in Regulating the Development of Reproductive Organs in Chrysanthemum morifolium. International Journal of Molecular Sciences, 2019, 20, 1276.	1.8	20
137	Nonlinear scalarizing functions in set optimization problems. Optimization, 2019, 68, 1685-1718.	1.0	21
138	Light-Induced Self-Assembly of Cubic CsPbBr₃ Perovskite Nanocrystals into Nanowires. Chemistry of Materials, 2019, 31, 6642-6649.	3.2	119
139	On demand synthesis of hollow fullerene nanostructures. Nature Communications, 2019, 10, 1548.	5.8	51
140	A New Type of Capping Agent in Nanoscience: Metal Cations. Small, 2019, 15, 1900444.	5.2	6
141	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. ACS Nano, 2019, 13, 2520-2525.	7.3	346
142	The stability of the solution sets for set optimization problems via improvement sets. Optimization, 2019, 68, 2171-2193.	1.0	14
143	Determination of Flavonoids and Carotenoids and Their Contributions to Various Colors of Rose Cultivars (Rosa spp.). Frontiers in Plant Science, 2019, 10, 123.	1.7	59
144	Oxygenâ€Assisted Cathodic Deposition of Zeolitic Imidazolate Frameworks with Controlled Thickness. Angewandte Chemie - International Edition, 2019, 58, 1123-1128.	7.2	40

#	Article	IF	Citations
145	Direct Imaging of Isolated Single-Molecule Magnets in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 2997-3005.	6.6	71
146	Microscopy of Nanoporous Crystals. Springer Handbooks, 2019, , 1391-1450.	0.3	5
147	Flavonols and Carotenoids in Yellow Petals of Rose Cultivar (Rosa â€˜Sun Cityâ€™): A Possible Rich Source of Bioactive Compounds. Journal of Agricultural and Food Chemistry, 2018, 66, 4171-4181.	2.4	25
148	Single-site catalyst promoters accelerate metal-catalyzed nitroarene hydrogenation. Nature Communications, 2018, 9, 1362.	5.8	161
149	Integration of Open Metal Sites and Lewis Basic Sites for Construction of a Cu MOF with a Rare Chiral O_hâ€type cage for high performance in methane purification. Chemistry - A European Journal, 2018, 24, 13181-13187.	1.7	26
150	Creating Hierarchical Pores by Controlled Linker Thermolysis in Multivariate Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 2363-2372.	6.6	310
151	Atomic-resolution transmission electron microscopy of electron beamâ€“sensitive crystalline materials. Science, 2018, 359, 675-679.	6.0	374
152	Ordered macro-microporous metal-organic framework single crystals. Science, 2018, 359, 206-210.	6.0	836
153	Functional Two-Dimensional Coordination Polymeric Layer as a Charge Barrier in Liâ€“S Batteries. ACS Nano, 2018, 12, 836-843.	7.3	76
154	The genetic architecture of floral traits in the woody plant Prunus mume. Nature Communications, 2018, 9, 1702.	5.8	73
155	Topologically guided tuning of Zr-MOF pore structures for highly selective separation of C6 alkane isomers. Nature Communications, 2018, 9, 1745.	5.8	251
156	Catalytic amino acid production from biomass-derived intermediates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5093-5098.	3.3	168
157	One-of-a-kind: a microporous metalâ€“organic framework capable of adsorptive separation of linear, mono- and di-branched alkane isomers via temperature- and adsorbate-dependent molecular sieving. Energy and Environmental Science, 2018, 11, 1226-1231.	15.6	103
158	PmCBFs synthetically affect PmDAM6 by alternative promoter binding and protein complexes towards the dormancy of bud for Prunus mume. Scientific Reports, 2018, 8, 4527.	1.6	39
159	Continuity and Convexity of a Nonlinear Scalarizing Function in Set Optimization Problems with Applications. Journal of Optimization Theory and Applications, 2018, 177, 679-695.	0.8	25
160	Effective Acetylene/Ethylene Separation at Ambient Conditions by a Pigmentâ€Based Covalentâ€Triazine Framework. Macromolecular Rapid Communications, 2018, 39, 1700468.	2.0	52
161	Influence of metal ions on the selective catalytic oxidation properties of isostructural MOFs. Inorganica Chimica Acta, 2018, 471, 176-179.	1.2	3
162	Submicroreactors: The Development of Yolk-Shell-Structured Pd&ZnO@Carbon Submicroreactors with High Selectivity and Stability (Adv. Funct. Mater. 32/2018). Advanced Functional Materials, 2018, 28, 1870227.	7.8	1

#	Article	IF	Citations
163	Pristine and Carboxyl-Functionalized Tetraphenylethylene-Based Ladder Networks for Gas Separation and Volatile Organic Vapor Adsorption. ACS Omega, 2018, 3, 15966-15974.	1.6	15
164	Enhanced Separation of Butane Isomers via Defect Control in a Fumarate/Zirconium-Based Metal Organic Framework. Langmuir, 2018, 34, 14546-14551.	1.6	43
165	Absorptive Hydrogen Scavenging for Enhanced Aromatics Yield During Nonâ€oxidative Methane Dehydroaromatization on Mo/Hâ€ZSMâ€5 Catalysts. Angewandte Chemie - International Edition, 2018, 57, 15577-15582.	7.2	20
166	Absorptive Hydrogen Scavenging for Enhanced Aromatics Yield During Nonâ€oxidative Methane Dehydroaromatization on Mo/Hâ€ZSMâ€5 Catalysts. Angewandte Chemie, 2018, 130, 15803-15808.	1.6	10
167	Fine Tuning the Diffusion Length in Hierarchical ZSM-5 To Maximize the Yield of Propylene in Catalytic Cracking of Hydrocarbons. ACS Sustainable Chemistry and Engineering, 2018, 6, 15832-15840.	3.2	39
168	Confined Lithiumâ€“Sulfur Reactions in Narrow-Diameter Carbon Nanotubes Reveal Enhanced Electrochemical Reactivity. ACS Nano, 2018, 12, 9775-9784.	7.3	61
169	Tailorâ€Made Microporous Metalâ€“Organic Frameworks for the Full Separation of Propane from Propylene Through Selective Size Exclusion. Advanced Materials, 2018, 30, e1805088.	11.1	241
170	Efficient electrochemical transformation of CO₂ to C₂/C₃ chemicals on benzimidazole-functionalized copper surfaces. Chemical Communications, 2018, 54, 11324-11327.	2.2	39
171	Point Defects and Green Emission in Zero-Dimensional Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 5490-5495.	2.1	143
172	Crosstalk of PmCBFs and PmDAMs Based on the Changes of Phytohormones under Seasonal Cold Stress in the Stem of Prunus mume. International Journal of Molecular Sciences, 2018, 19, 15.	1.8	38
173	Highly Compatible Hydroxyl-Functionalized Microporous Polyimide-ZIF-8 Mixed Matrix Membranes for Energy Efficient Propylene/Propane Separation. ACS Applied Nano Materials, 2018, 1, 3541-3547.	2.4	89
174	The Development of Yolkâ€“Shellâ€Structured Pd&ZnO@Carbon Submicroreactors with High Selectivity and Stability. Advanced Functional Materials, 2018, 28, 1801737.	7.8	78
175	Magnetic MOF for AO7 Removal and Targeted Delivery. Crystals, 2018, 8, 250.	1.0	23
176	Dual-template engineering of triple-layered nanoarray electrode of metal chalcogenides sandwiched with hydrogen-substituted graphdiyne. Nature Communications, 2018, 9, 3132.	5.8	85
177	An APETALA2 Homolog, RcAP2, Regulates the Number of Rose Petals Derived From Stamens and Response to Temperature Fluctuations. Frontiers in Plant Science, 2018, 9, 481.	1.7	14
178	Overexpression of LiDXS and LiDXR From Lily (Lilium â€˜Siberiaâ€™) Enhances the Terpenoid Content in Tobacco Flowers. Frontiers in Plant Science, 2018, 9, 909.	1.7	32
179	Ultrathin graphdiyne film on graphene through solution-phase van der Waals epitaxy. Science Advances, 2018, 4, eaat6378.	4.7	198
180	Sinter-resistant metal nanoparticle catalysts achieved by immobilization within zeolite crystals via seed-directed growth. Nature Catalysis, 2018, 1, 540-546.	16.1	297

#	Article	IF	Citations
181	Morphological Map of ZIF-8 Crystals with Five Distinctive Shapes: Feature of Filler in Mixed-Matrix Membranes on C₃H₆/C₃H₈ Separation. Chemistry of Materials, 2018, 30, 3467-3473.	3.2	94
182	Transcriptome Profiles Reveal the Crucial Roles of Hormone and Sugar in the Bud Dormancy of Prunus mume. Scientific Reports, 2018, 8, 5090.	1.6	104
183	Converting Hierarchical to Bulk Structure: A Strategy for Encapsulating Metal Oxides and Noble Metals in Zeolites. Chemistry of Materials, 2018, 30, 6361-6369.	3.2	38
184	Observation of superconductivity in structure-selected Ti2O3 thin films. NPG Asia Materials, 2018, 10, 522-532.	3.8	43
185	Crystal Phase and Architecture Engineering of Lotusâ€Thalamusâ€Shaped Ptâ€Ni Anisotropic Superstructures for Highly Efficient Electrochemical Hydrogen Evolution. Advanced Materials, 2018, 30, e1801741.	11.1	163
186	Lipschitz Continuity of Approximate Solution Mappings to Parametric Generalized Vector Equilibrium Problems. Journal of Optimization Theory and Applications, 2018, 178, 763-793.	0.8	9
187	Metalâ€“organic frameworks as platforms for the nanostructuration of single-molecule magnets: new insights from HRTEM. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, a348-a348.	0.0	0
188	Simulating the spatial dynamics of urban growth with an integrated modeling approach: A case study of Foshan, China. Ecological Modelling, 2017, 353, 107-116.	1.2	43
189	Soluble Polymers with Intrinsic Porosity for Flue Gas Purification and Natural Gas Upgrading. Advanced Materials, 2017, 29, 1605826.	11.1	40
190	Sodium-Induced Reordering of Atomic Stacks in Black Phosphorus. Chemistry of Materials, 2017, 29, 1350-1356.	3.2	55
191	Molecule-Level g-C₃N₄ Coordinated Transition Metals as a New Class of Electrocatalysts for Oxygen Electrode Reactions. Journal of the American Chemical Society, 2017, 139, 3336-3339.	6.6	1,094
192	Comparative RNA-seq analysis of transcriptome dynamics during petal development in Rosa chinensis. Scientific Reports, 2017, 7, 43382.	1.6	44
193	Unravelling surface and interfacial structures of a metalâ€“organic framework by transmission electron microscopy. Nature Materials, 2017, 16, 532-536.	13.3	306
194	Selective catalytic properties determined by the molecular skeleton: Two new isostructural coordination polymers[{M(H2O)5}2(Î¼-4-bpdh)(oba)]âˆž (M = Co, Ni). Inorganica Chimica Acta, 2017, 461, 15-20.	1.2	11
195	Existence and stability of solutions to inverse variational inequality problems. Applied Mathematics and Mechanics (English Edition), 2017, 38, 749-764.	1.9	10
196	Recent progress in the direct synthesis of hierarchical zeolites: synthetic strategies and characterization methods. Materials Chemistry Frontiers, 2017, 1, 2195-2212.	3.2	45
197	Graphene-Au nanoparticle based vertical heterostructures: A novel route towards high- ZT Thermoelectric devices. Nano Energy, 2017, 38, 385-391.	8.2	26
198	Ultrathin Two-Dimensional Covalent Organic Framework Nanosheets: Preparation and Application in Highly Sensitive and Selective DNA Detection. Journal of the American Chemical Society, 2017, 139, 8698-8704.	6.6	440

#	Article	IF	Citations
199	Fe atoms trapped on graphene as a potential efficient catalyst for room-temperature complete oxidation of formaldehyde: a first-principles investigation. Catalysis Science and Technology, 2017, 7, 2012-2021.	2.1	13
200	Carbon molecular sieve membrane from a microporous spirobisindane-based polyimide precursor with enhanced ethylene/ethane mixed-gas selectivity. RSC Advances, 2017, 7, 3265-3272.	1.7	65
201	Microporous cokes formed in zeolite catalysts enable efficient solar evaporation. Journal of Materials Chemistry A, 2017, 5, 6860-6865.	5.2	55
202	A mechanistic basis for the effect of aluminum content on ethene selectivity in methanol-to-hydrocarbons conversion on HZSM-5. Journal of Catalysis, 2017, 348, 300-305.	3.1	67
203	Platinum-nickel hydroxide nanocomposites for electrocatalytic reduction of water. Nano Energy, 2017, 31, 456-461.	8.2	119
204	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. Nature Communications, 2017, 8, 13592.	5.8	142
205	Interfacial-Bonding-Regulated CO Oxidation over Pt Atoms Immobilized on Gas-Exfoliated Hexagonal Boron Nitride. ChemistrySelect, 2017, 2, 9412-9419.	0.7	5
206	Out-of-Plane Piezoelectricity and Ferroelectricity in Layered Î±-In₂Se₃ Nanoflakes. Nano Letters, 2017, 17, 5508-5513.	4.5	567
207	Metalâ€“Organic Framework-Based Separators for Enhancing Liâ€“S Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. ACS Energy Letters, 2017, 2, 2362-2367.	8.8	229
208	Lower semicontinuity of solution mappings for parametric fixed point problems with applications. Operations Research Letters, 2017, 45, 533-537.	0.5	4
209	Capture of organic iodides from nuclear waste by metal-organic framework-based molecular traps. Nature Communications, 2017, 8, 485.	5.8	171
210	Synthesis of WO_nâ€WX₂ (n=2.7, 2.9; X=S, Se) Heterostructures for Highly Efficient Green Quantum Dot Lightâ€Emitting Diodes. Angewandte Chemie, 2017, 129, 10622-10626.	1.6	7
211	Synthesis of WO_nâ€WX₂ (n=2.7, 2.9; X=S, Se) Heterostructures for Highly Efficient Green Quantum Dot Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2017, 56, 10486-10490.	7.2	21
212	Thermally stable single atom Pt/m-Al2O3 for selective hydrogenation and CO oxidation. Nature Communications, 2017, 8, 16100.	5.8	545
213	Inside Perovskites: Quantum Luminescence from Bulk Cs₄PbBr₆ Single Crystals. Chemistry of Materials, 2017, 29, 7108-7113.	3.2	200
214	Facile Synthesis of Highly Waterâ€Soluble Lanthanideâ€Doped tâ€LaVO₄ NPs for Antifake Ink and Latent Fingermark Detection. Small, 2017, 13, 1702305.	5.2	56
215	Edge Epitaxy of Two-Dimensional MoSe₂ and MoS₂ Nanosheets on One-Dimensional Nanowires. Journal of the American Chemical Society, 2017, 139, 8653-8660.	6.6	118
216	Functionalized metal organic frameworks for effective capture of radioactive organic iodides. Faraday Discussions, 2017, 201, 47-61.	1.6	38

#	Article	IF	Citations
217	Well-posedness and stability of solutions for set optimization problems. Optimization, 2017, 66, 17-33.	1.0	42
218	Epitaxial growth of unusual 4H hexagonal Ir, Rh, Os, Ru and Cu nanostructures on 4H Au nanoribbons. Chemical Science, 2017, 8, 795-799.	3.7	81
219	Walnut Polyphenol Extract Attenuates Immunotoxicity Induced by 4-Pentylphenol and 3-methyl-4-nitrophenol in Murine Splenic Lymphocyte. Nutrients, 2016, 8, 287.	1.7	18
220	Extraordinary Separation of Acetyleneâ€Containing Mixtures with Microporous Metalâ€“Organic Frameworks with Open O Donor Sites and Tunable Robustness through Control of the Helical Chain Secondary Building Units. Chemistry - A European Journal, 2016, 22, 5676-5683.	1.7	113
221	Beyond Creation of Mesoporosity: The Advantages of Polymerâ€Based Dualâ€Function Templates for Fabricating Hierarchical Zeolites. Advanced Functional Materials, 2016, 26, 1881-1891.	7.8	66
222	Strain-Mediated Interfacial Dynamics during Auâ€“PbS Coreâ€“Shell Nanostructure Formation. ACS Nano, 2016, 10, 6235-6240.	7.3	21
223	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. Science, 2016, 353, 141-144.	6.0	1,088
224	UTSA-74: A MOF-74 Isomer with Two Accessible Binding Sites per Metal Center for Highly Selective Gas Separation. Journal of the American Chemical Society, 2016, 138, 5678-5684.	6.6	489
225	Semicontinuity of Solution Mappings to Parametric Generalized Vector Equilibrium Problems. Numerical Functional Analysis and Optimization, 2016, 37, 1420-1437.	0.6	5
226	Oxygen-containing coke species in zeolite-catalyzed conversion of methanol to hydrocarbons. Catalysis Science and Technology, 2016, 6, 8157-8165.	2.1	24
227	A unique 3D ultramicroporous triptycene-based polyimide framework for efficient gas sorption applications. RSC Advances, 2016, 6, 97560-97565.	1.7	18
228	Selective catalytic properties of new microporous cobalt metal-organic frameworks controlled by their structural topologies. Materials Letters, 2016, 184, 73-77.	1.3	6
229	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. Journal of the American Chemical Society, 2016, 138, 16174-16181.	6.6	852
230	Multicolour synthesis in lanthanide-doped nanocrystals through cation exchange in water. Nature Communications, 2016, 7, 13059.	5.8	164
231	From an equilibrium based MOF adsorbent to a kinetic selective carbon molecular sieve for paraffin/iso-paraffin separation. Chemical Communications, 2016, 52, 13897-13900.	2.2	34
232	Selective Oxidation of Glycerol to Glyceric Acid in Baseâ€Free Aqueous Solution at Room Temperature Catalyzed by Platinum Supported on Carbon Activated with Potassium Hydroxide. ChemCatChem, 2016, 8, 1699-1707.	1.8	19
233	Unravelling Thiolâ€™s Role in Directing Asymmetric Growth of Au Nanorodâ€“Au Nanoparticle Dimers. Nano Letters, 2016, 16, 617-623.	4.5	58
234	Existence and stability of solutions for a class of generalized vector equilibrium problems. Positivity, 2016, 20, 829-846.	0.3	12

#	Article	IF	Citations
235	Light Hydrocarbon Adsorption Mechanisms in Two Calcium-Based Microporous Metal Organic Frameworks. Chemistry of Materials, 2016, 28, 1636-1646.	3.2	87
236	Controlled growth of high-density CdS and CdSe nanorod arrays on selective facets of two-dimensional semiconductor nanoplates. Nature Chemistry, 2016, 8, 470-475.	6.6	177
237	Highly stable porous covalent triazineâ€“piperazine linked nanoflower as a feasible adsorbent for flue gas CO2 capture. Chemical Engineering Science, 2016, 145, 21-30.	1.9	27
238	Continuity of the efficient solution mapping for vector optimization problems. Optimization, 2016, 65, 1337-1347.	1.0	7
239	Defect stabilized gold atoms on graphene as potential catalysts for ethylene epoxidation: a first-principles investigation. Catalysis Science and Technology, 2016, 6, 1632-1641.	2.1	43
240	The connectedness of the solutions set for generalized vector equilibrium problems. Optimization, 2016, 65, 357-367.	1.0	15
241	Harnessing structural darkness in the visible and infrared wavelengths for a new source of light. Nature Nanotechnology, 2016, 11, 60-66.	15.6	125
242	Semicontinuity of solution mappings for a class of parametric generalized vector equilibrium problems. Journal of Nonlinear Science and Applications, 2016, 09, 5449-5462.	0.4	0
243	A Rodâ€Packing Microporous Hydrogenâ€Bonded Organic Framework for Highly Selective Separation of C₂H₂/CO₂ at Room Temperature. Angewandte Chemie - International Edition, 2015, 54, 574-577.	7.2	289
244	Nanocrystals: Fabricating a Homogeneously Alloyed AuAg Shell on Au Nanorods to Achieve Strong, Stable, and Tunable Surface Plasmon Resonances (Small 39/2015). Small, 2015, 11, 5328-5328.	5.2	1
245	Strain-Mediated Asymmetric Growth of Plasmonic Nanocrystals: A Monometallic Au Nanorod-Au Nanoparticle Heterodimer. Microscopy and Microanalysis, 2015, 21, 2207-2208.	0.2	0
246	Fabricating a Homogeneously Alloyed AuAg Shell on Au Nanorods to Achieve Strong, Stable, and Tunable Surface Plasmon Resonances. Small, 2015, 11, 5214-5221.	5.2	76
247	Upper Semicontinuity of Solution Mappings to Parametric Generalized Vector Quasiequilibrium Problems. Journal of Function Spaces, 2015, 2015, 1-6.	0.4	2
248	Microporous metalâ€“organic framework with dual functionalities for highly efficient removal of acetylene from ethylene/acetylene mixtures. Nature Communications, 2015, 6, 7328.	5.8	404
249	Rugae-like FeP nanocrystal assembly on a carbon cloth: an exceptionally efficient and stable cathode for hydrogen evolution. Nanoscale, 2015, 7, 10974-10981.	2.8	133
250	CoP nanosheet assembly grown on carbon cloth: A highly efficient electrocatalyst for hydrogen generation. Nano Energy, 2015, 15, 634-641.	8.2	357
251	Understanding the Enhanced Catalytic Performance of Ultrafine Transition Metal Nanoparticlesâ€“Graphene Composites. Journal of Molecular and Engineering Materials, 2015, 03, 1540002.	0.9	3
252	Diverse Near-Infrared Resonant Gold Nanostructures for Biomedical Applications. ACS Symposium Series, 2015, , 213-243.	0.5	1

#	Article	IF	Citations
253	Pt atoms stabilized on hexagonal boron nitride as efficient single-atom catalysts for CO oxidation: a first-principles investigation. RSC Advances, 2015, 5, 10452-10459.	1.7	54
254	Two-dimensional gold nanostructures with high activity for selective oxidation of carbonâ€“hydrogen bonds. Nature Communications, 2015, 6, 6957.	5.8	133
255	Microporous carbonaceous adsorbents for CO₂separation via selective adsorption. RSC Advances, 2015, 5, 30310-30330.	1.7	119
256	SUCROSE NONFERMENTING1-RELATED PROTEIN KINASE2.6, an Ortholog of OPEN STOMATA1, Is a Negative Regulator of Strawberry Fruit Development and Ripening. Plant Physiology, 2015, 167, 915-930.	2.3	104
257	Synthesis of Ultrathin Faceâ€Centeredâ€Cubic Au@Pt and Au@Pd Coreâ€“Shell Nanoplates from Hexagonalâ€Closeâ€Packed Au Square Sheets. Angewandte Chemie - International Edition, 2015, 54, 5672-5676.	7.2	111
258	Levitinâ€“Polyak well-posedness of symmetric vector quasi-equilibrium problems. Optimization, 2015, 64, 1537-1545.	1.0	7
259	A general solid-state synthesis of chemically-doped fluorescent graphene quantum dots for bioimaging and optoelectronic applications. Nanoscale, 2015, 7, 10162-10169.	2.8	121
260	Surface modification-induced phase transformation of hexagonal close-packed gold square sheets. Nature Communications, 2015, 6, 6571.	5.8	195
261	Investigating the Influence of Mesoporosity in Zeolite Beta on Its Catalytic Performance for the Conversion of Methanol to Hydrocarbons. ACS Catalysis, 2015, 5, 5837-5845.	5.5	84
262	Thickness-Dependent Dielectric Constant of Few-Layer In₂Se₃ Nanoflakes. Nano Letters, 2015, 15, 8136-8140.	4.5	99
263	Monodisperse Pt atoms anchored on N-doped graphene as efficient catalysts for CO oxidation: a first-principles investigation. Catalysis Science and Technology, 2015, 5, 1658-1667.	2.1	78
264	Some characterizations of the approximate solutions to generalized vector equilibrium problems. Journal of Industrial and Management Optimization, 2015, 12, 1135-1151.	0.8	24
265	Blackbody metamaterial lasers. , 2015, , .		0
266	Catalytic oxidative conversion of cellulosic biomass to formic acid and acetic acid with exceptionally high yields. Catalysis Today, 2014, 233, 77-82.	2.2	92
267	Hydrogen evolution by a metal-free electrocatalyst. Nature Communications, 2014, 5, 3783.	5.8	1,851
268	Highly Mesoporous Single-Crystalline Zeolite Beta Synthesized Using a Nonsurfactant Cationic Polymer as a Dual-Function Template. Journal of the American Chemical Society, 2014, 136, 2503-2510.	6.6	266
269	Enhancing multiphoton upconversion through energy clustering at sublattice level. Nature Materials, 2014, 13, 157-162.	13.3	528
270	A simple solution-phase approach to synthesize high quality ternary AgInSe2 and band gap tunable quaternary AgIn(S1â^'xSex)2 nanocrystals. Nanoscale, 2014, 6, 6782.	2.8	42

#	Article	IF	Citations
271	Monolayer MoSe₂ Grown by Chemical Vapor Deposition for Fast Photodetection. ACS Nano, 2014, 8, 8582-8590.	7.3	515
272	Copper atoms embedded in hexagonal boron nitride as potential catalysts for CO oxidation: a first-principles investigation. RSC Advances, 2014, 4, 38750-38760.	1.7	57
273	Direct conversion of cellulose using carbon monoxide and water on a Ptâ€“Mo2C/C catalyst. Energy and Environmental Science, 2014, 7, 393-398.	15.6	72
274	The first example of commensurate adsorption of atomic gas in a MOF and effective separation of xenon from other noble gases. Chemical Science, 2014, 5, 620-624.	3.7	203
275	Facile synthesis of PbTiO3 truncated octahedra via solid-state reaction and their application in low-temperature CO oxidation by loading Pt nanoparticles. Journal of Materials Chemistry A, 2014, 2, 9035-9039.	5.2	12
276	CO oxidation catalyzed by Pt-embedded graphene: a first-principles investigation. Physical Chemistry Chemical Physics, 2014, 16, 23584-23593.	1.3	111
277	Selective oxidation of glycerol to formic acid in highly concentrated aqueous solutions with molecular oxygen using V-substituted phosphomolybdic acids. RSC Advances, 2014, 4, 35463-35466.	1.7	41
278	High storage capacity and separation selectivity for C₂ hydrocarbons over methane in the metalâ€“organic framework Cuâ€“TDPAT. Journal of Materials Chemistry A, 2014, 2, 15823-15828.	5.2	102
279	Chiral Gold Nanowires with Boerdijkâ€“Coxeterâ€“Bernal Structure. Journal of the American Chemical Society, 2014, 136, 12746-12752.	6.6	64
280	Tuning the reactivity of Ru nanoparticles by defect engineering of the reduced graphene oxide support. RSC Advances, 2014, 4, 22230-22240.	1.7	20
281	Wavelength-Tuned Light Emission via Modifying the Band Edge Symmetry: Doped SnO₂ as an Example. Journal of Physical Chemistry C, 2014, 118, 6365-6371.	1.5	28
282	Lithiation-Induced Shuffling of Atomic Stacks. Nano Letters, 2014, 14, 5301-5307.	4.5	18
283	Multifunctional Polypyrrole@Fe₃O₄ Nanoparticles for Dualâ€Modal Imaging and In Vivo Photothermal Cancer Therapy. Small, 2014, 10, 1063-1068.	5.2	126
284	Introduction of Ï€-Complexation into Porous Aromatic Framework for Highly Selective Adsorption of Ethylene over Ethane. Journal of the American Chemical Society, 2014, 136, 8654-8660.	6.6	383
285	Lower semicontinuity of solution mapping to parametric generalized strong vector equilibrium problems. Applied Mathematics Letters, 2014, 28, 38-41.	1.5	23
286	STEM Tomography and Surface Plasmon Imaging of a Au-Pd Bi-metallic Nanorod with Exotic Morphology. Microscopy and Microanalysis, 2014, 20, 622-623.	0.2	0
287	Experimental Evidence of Chiral Gold Nanowires with Boerdijk-Coxeter-Bernal Structure by Atomic-Resolution Imaging. Microscopy and Microanalysis, 2014, 20, 1060-1061.	0.2	1
288	Carbon molecular sieve gas separation membranes based on an intrinsically microporous polyimide precursor. Carbon, 2013, 62, 88-96.	5.4	138

#	Article	IF	Citations
289	Defective Graphene Supported MPd₁₂ (M = Fe, Co, Ni, Cu, Zn, Pd) Nanoparticles as Potential Oxygen Reduction Electrocatalysts: A First-Principles Study. Journal of Physical Chemistry C, 2013, 117, 1350-1357.	1.5	88
290	Van der Waals epitaxial growth of MoS2 on SiO2/Si by chemical vapor deposition. RSC Advances, 2013, 3, 17287.	1.7	41
291	A perfluorinated covalent triazine-based framework for highly selective and waterâ€“tolerant CO2 capture. Energy and Environmental Science, 2013, 6, 3684.	15.6	429
292	One-pot synthesis Of Cu/ZnO/ZnAl2O4 catalysts and their catalytic performance in glycerol hydrogenolysis. Catalysis Science and Technology, 2013, 3, 3360.	2.1	37
293	High-performance gas sensing achieved by mesoporous tungsten oxide mesocrystals with increased oxygen vacancies. Journal of Materials Chemistry A, 2013, 1, 8653.	5.2	60
294	Sucrose functions as a signal involved in the regulation of strawberry fruit development and ripening. New Phytologist, 2013, 198, 453-465.	3.5	235
295	Site-Specific Growth of Auâ€“Pd Alloy Horns on Au Nanorods: A Platform for Highly Sensitive Monitoring of Catalytic Reactions by Surface Enhancement Raman Spectroscopy. Journal of the American Chemical Society, 2013, 135, 8552-8561.	6.6	226
296	Sub-10 nm Fe₃O₄@Cu_{2â€“x}S Coreâ€“Shell Nanoparticles for Dual-Modal Imaging and Photothermal Therapy. Journal of the American Chemical Society, 2013, 135, 8571-8577.	6.6	581
297	Aqueous phase synthesis of upconversion nanocrystals through layer-by-layer epitaxial growth for in vivo X-ray computed tomography. Nanoscale, 2013, 5, 6950.	2.8	71
298	The role of curvature in silica mesoporous crystals. Interface Focus, 2012, 2, 634-644.	1.5	10
299	Purification and Characterization of ZmRIP1, a Novel Reductant-Inhibited Protein Tyrosine Phosphatase from Maize Â. Plant Physiology, 2012, 159, 671-681.	2.3	12
300	Controllable synthesis, magnetic and biocompatible properties of Fe3O4 and Î±-Fe2O3 nanocrystals. Journal of Solid State Chemistry, 2012, 196, 138-144.	1.4	40
301	Ordered mesoporous silica materials with complicated structures. Current Opinion in Chemical Engineering, 2012, 1, 129-137.	3.8	36
302	Preparation of a Ruâ€Nanoparticles/Defectiveâ€Graphene Composite as a Highly Efficient Areneâ€Hydrogenation Catalyst. ChemCatChem, 2012, 4, 1938-1942.	1.8	55
303	Graphene substrate-mediated catalytic performance enhancement of Runanoparticles: a first-principles study. Dalton Transactions, 2012, 41, 1289-1296.	1.6	61
304	Unique reactivity of Fe nanoparticlesâ€“defective graphene composites toward NHx (x = 0, 1, 2, 3) adsorption: a first-principles study. Physical Chemistry Chemical Physics, 2012, 14, 15036.	1.3	30
305	Rapid microwave-enhanced hydrothermal synthesis and shape evolution of uniform NaGdF₄:Yb, Er (Tm/Ho) nanocrystals with upconversion and paramagnetic properties. Nanotechnology, 2012, 23, 225705.	1.3	33
306	Atomic Resolution Imaging of Nanoscale Structural Ordering in a Complex Metal Oxide Catalyst. Chemistry of Materials, 2012, 24, 3269-3278.	3.2	7

#	Article	IF	Citations
307	Rational design of oriented assembly of gold nanospheres with nanorods by biotinâ€“streptavidin connectors. Nanoscale, 2012, 4, 6256.	2.8	8
308	Substrate-mediated enhanced activity of Ru nanoparticles in catalytic hydrogenation of benzene. Nanoscale, 2012, 4, 2288.	2.8	47
309	Palladium Nanoparticles/Defective Graphene Composites as Oxygen Reduction Electrocatalysts: A First-Principles Study. Journal of Physical Chemistry C, 2012, 116, 2710-2719.	1.5	94
310	Preparation and characterization of adsorbents for treatment of water associated with oil production. Journal of Analytical and Applied Pyrolysis, 2012, 97, 80-87.	2.6	14
311	Superior Capture of CO₂ Achieved by Introducing Extra-framework Cations into N-doped Microporous Carbon. Chemistry of Materials, 2012, 24, 4725-4734.	3.2	199
312	Novel porous carbon materials with ultrahigh nitrogen contents for selective CO2 capture. Journal of Materials Chemistry, 2012, 22, 19726.	6.7	171
313	Intergrown New Zeolite Beta Polymorphs with Interconnected 12-Ring Channels Solved by Combining Electron Crystallography and Single-Crystal X-ray Diffraction. Chemistry of Materials, 2012, 24, 3701-3706.	3.2	43
314	Nanocomposites of Graphene Oxide and Upconversion Rareâ€Earth Nanocrystals with Superior Optical Limiting Performance. Small, 2012, 8, 2271-2276.	5.2	79
315	Synthesis and Gas Transport Properties of Hydroxyl-Functionalized Polyimides with Intrinsic Microporosity. Macromolecules, 2012, 45, 3841-3849.	2.2	193
316	Direct Conversion of Cellulose to Glycolic Acid with a Phosphomolybdic Acid Catalyst in a Water Medium. ACS Catalysis, 2012, 2, 1698-1702.	5.5	126
317	Direct Observation of Surface Reconstruction and Termination on a Complex Metal Oxide Catalyst by Electron Microscopy. Angewandte Chemie - International Edition, 2012, 51, 4176-4180.	7.2	12
318	Magnetic Nanoparticles Entrapped in Siliceous Mesocellular Foam: A New Catalyst Support. Chemistry - A European Journal, 2012, 18, 7394-7403.	1.7	27
319	Lanthanide-Doped Na_xScF_{3+x} Nanocrystals: Crystal Structure Evolution and Multicolor Tuning. Journal of the American Chemical Society, 2012, 134, 8340-8343.	6.6	315
320	Enhanced Binding Affinity, Remarkable Selectivity, and High Capacity of CO₂ by Dual Functionalization of a rhtâ€Type Metalâ€Organic Framework. Angewandte Chemie - International Edition, 2012, 51, 1412-1415.	7.2	430
321	Functionalization of silicon nanowire surfaces with metal-organic frameworks. Nano Research, 2012, 5, 109-116.	5.8	63
322	Site-specific growth of Au particles on ZnO nanopyramids under ultraviolet illumination. Nanoscale, 2011, 3, 4195.	2.8	61
323	Controlled Synthesis of the Tricontinuous Mesoporous Material IBN-9 and Its Carbon and Platinum Derivatives. Chemistry of Materials, 2011, 23, 3775-3786.	3.2	25
324	Fabrication of the Tricontinuous Mesoporous IBN-9 Structure with Surfactant CTAB. Chemistry of Materials, 2011, 23, 5250-5255.	3.2	20

#	Article	IF	Citations
325	Chiral Transformation: From Single Nanowire to Double Helix. Journal of the American Chemical Society, 2011, 133, 20060-20063.	6.6	101
326	Structure study of the tri-continuous mesoporous silica IBN-9 by electron crystallography. Microporous and Mesoporous Materials, 2011, 146, 88-96.	2.2	11
327	Highly Selective and Complete Conversion of Cellobiose to Gluconic Acid over Au/Cs₂HPW₁₂O₄₀ Nanocomposite Catalyst. ChemCatChem, 2011, 3, 1294-1298.	1.8	80
328	Tuning upconversion through energy migration in coreâ€“shell nanoparticles. Nature Materials, 2011, 10, 968-973.	13.3	1,570
329	Label-free, electrochemical detection of methicillin-resistant staphylococcus aureus DNA with reduced graphene oxide-modified electrodes. Biosensors and Bioelectronics, 2011, 26, 3881-3886.	5.3	191
330	Chiral crystal of a C_{2v}â€symmetric 1,3â€diazaaulene derivative showing efficient optical second harmonic generation. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 649-656.	2.4	4
331	Generalized Synthesis of Mesoporous Shells on Zeolite Crystals. Small, 2011, 7, 326-332.	5.2	27
332	Seed-mediated synthesis, properties and application of Î³-Fe2O3â€“CdSe magnetic quantum dots. Journal of Solid State Chemistry, 2011, 184, 2150-2158.	1.4	12
333	Siliceous mesocellular foam for high-performance liquid chromatography: Effect of morphology and pore structure. Journal of Chromatography A, 2010, 1217, 4337-4343.	1.8	25
334	Simultaneous phase and size control of upconversion nanocrystals through lanthanide doping. Nature, 2010, 463, 1061-1065.	13.7	2,872
335	Pore Fabrication in Various Silica-Based Nanoparticles by Controlled Etching. Langmuir, 2010, 26, 11784-11789.	1.6	15
336	Mechanistic investigation into the spontaneous linear assembly of gold nanospheres. Physical Chemistry Chemical Physics, 2010, 12, 11850.	1.3	144
337	Structure and topology of novel zeolites and mesoporous materials. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s77-s77.	0.3	1
338	A tri-continuous mesoporous material with a silica pore wall following a hexagonal minimal surface. Nature Chemistry, 2009, 1, 123-127.	6.6	131
339	One-Step Preparation of Zeolite Silicalite-1 Microspheres with Adjustable Macroporosity. Chemistry of Materials, 2009, 21, 2344-2348.	3.2	49
340	A General Synthesis for PEDOTâ€Coated Nonconductive Materials and PEDOT Hollow Particles by Aqueous Chemical Polymerization. Small, 2008, 4, 2051-2058.	5.2	42
341	Palladium Nanoclusters Supported on Propylureaâ€Modified Siliceous Mesocellular Foam for Coupling and Hydrogenation Reactions. Chemistry - A European Journal, 2008, 14, 3118-3125.	1.7	116
342	Reverse Microemulsion-Mediated Synthesis of Silica-Coated Gold and Silver Nanoparticles. Langmuir, 2008, 24, 5842-5848.	1.6	180

#	Article	IF	Citations
343	Spherical Siliceous Mesocellular Foam Particles for High-Speed Size Exclusion Chromatography. Chemistry of Materials, 2007, 19, 2292-2298.	3.2	129
344	Spherical siliceous mesocellular foam particles for high-speed size exclusion chromatography. Studies in Surface Science and Catalysis, 2007, , 829-832.	1.5	6
345	Pressure-Driven Enzyme Entrapment in Siliceous Mesocellular Foam. Chemistry of Materials, 2006, 18, 643-649.	3.2	141
346	Generalized Fluorocarbon-Surfactant-Mediated Synthesis of Nanoparticles with Various Mesoporous Structures. Angewandte Chemie - International Edition, 2005, 44, 288-292.	7.2	244
347	High-Temperature Synthesis of Stable Ordered Mesoporous Silica Materials by Using Fluorocarbon-Hydrocarbon Surfactant Mixtures. Chemistry - A European Journal, 2004, 10, 5911-5922.	1.7	65
348	Ordered mesoporous titanosilicates with catalytically stable and active four-coordinated titanium sites. Chemical Communications, 2004, , 2612.	2.2	44
349	Characterization of Microporosity in Ordered Mesoporous Material MAS-7 by129Xe NMR Spectroscopy. Journal of Physical Chemistry B, 2004, 108, 3728-3734.	1.2	20
350	Improved Structural Order, Stability, and Anion-Exchange Capacity of Cation-Mediated Bridged Hybrid Mesoscopic Materials by Using Chelating Ligands. Chemistry of Materials, 2004, 16, 3507-3512.	3.2	12
351	Synthesis of Heteroatom Substituted SBA-15 by the â€œpH-Adjustingâ€•Method. Chemistry of Materials, 2004, 16, 486-492.	3.2	291
352	High-Temperature Generalized Synthesis of Stable Ordered Mesoporous Silica-Based Materials by Using Fluorocarbonâ€“Hydrocarbon Surfactant Mixtures. Angewandte Chemie - International Edition, 2003, 42, 3633-3637.	7.2	143
353	Silica nanobottles templated from functional polymer spheres. Journal of Colloid and Interface Science, 2003, 263, 467-472.	5.0	35
354	Stable iron-incorporated mesoporous silica materials (MFS-9) prepared in strong acidic media. Microporous and Mesoporous Materials, 2003, 57, 191-198.	2.2	51
355	Microporosity in Ordered Mesoporous Aluminosilicates Characterized by Catalytic Probing Reactions. Journal of Physical Chemistry B, 2003, 107, 1853-1857.	1.2	36
356	Synthesis, Characterization, and Catalytic Activity of Mesostructured Titanosilicates Assembled from Polymer Surfactants with Preformed Titanosilicate Precursors in Strongly Acidic Media. Journal of Physical Chemistry B, 2003, 107, 8972-8980.	1.2	63
357	Understanding of the High Hydrothermal Stability of the Mesoporous Materials Prepared by the Assembly of Triblock Copolymer with Preformed Zeolite Precursors in Acidic Media. Journal of Physical Chemistry B, 2003, 107, 7551-7556.	1.2	73
358	Anion-Exchange Properties and Reversible Phase Transitions of Metal-Cation-Mediated Bridged Organicâ"Inorganic Hybrid Mesoscopic Materials. Chemistry of Materials, 2003, 15, 74-77.	3.2	9
359	Hydrothermally Stable Ordered Hexagonal Mesoporous Aluminosilicates Assembled from a Triblock Copolymer and Preformed Aluminosilicate Precursors in Strongly Acidic Media. Chemistry of Materials, 2002, 14, 1144-1148.	3.2	177
360	Hydrothermally Stable Ordered Mesoporous Titanosilicates with Highly Active Catalytic Sites. Journal of the American Chemical Society, 2002, 124, 888-889.	6.6	210

#	Article	IF	Citations
361	Strongly Acidic and High-Temperature Hydrothermally Stable Mesoporous Aluminosilicates with Ordered Hexagonal Structure This work was supported by the National Natural Science Foundation of China (No. 29825108), the State Basic Research Project, and the National Advanced Materials Committee of China. We thank Prof. Ruren Xu, Dr. Haiping Sun, Prof. Bensan Zou, Prof. Ze Zhang, and Professor Osamu Tarasaki for helpful suggestions, discussions, and transmission electron microscopy experiments.. Angewandte Chemie - International Edition, 2002, 41, 2226.	7.2	8
362	A Novel Method for Incorporation of Heteroatoms into the Framework of Ordered Mesoporous Silica Materials Synthesized in Strong Acidic Media. Journal of Physical Chemistry B, 2001, 105, 7963-7966.	1.2	211
363	Application of logarithmic x-axis on adsorption isotherms to improve micropore analysis. Microporous and Mesoporous Materials, 2001, 42, 325-336.	2.2	9
364	Strongly Acidic and High-Temperature Hydrothermally Stable Mesoporous Aluminosilicates with Ordered Hexagonal Structure. Angewandte Chemie - International Edition, 2001, 40, 1258-1262.	7.2	378
365	High activity in catalytic cracking over stable mesoporous aluminosilicates. Catalysis Today, 2001, 68, 209-216.	2.2	38
366	Strongly Acidic and High-Temperature Hydrothermally Stable Mesoporous Aluminosilicates with Ordered Hexagonal Structure. Angewandte Chemie - International Edition, 2001, 40, 1258-1262.	7.2	8
367	Preparation, characterization, and optical properties of the host-guest nanocomposite material zeolite-silver iodide. Materials Research Bulletin, 2000, 35, 59-73.	2.7	23
368	[Al12P13O52]3-[(CH2)6N4H3]3+:â€‰ An Anionic Aluminophosphate Molecular Sieve with BrÃ¶nsted Acidity. Chemistry of Materials, 2000, 12, 2517-2519.	3.2	69
369	Preparation of zeolite A membranes by microwave heating. Microporous and Mesoporous Materials, 1999, 30, 321-326.	2.2	41
370	Some characterizations of a nonlinear scalarizing function via oriented distance function. Optimization, 0, , 1-33.	1.0	4
371	Investigating the Catalytic Active Sites of Mo/HZSM-5 and Their Deactivation During Methane Dehydroaromatization. SSRN Electronic Journal, 0, , .	0.4	0
372	Semicontinuity of the minimal solution mappings to parametric set optimization problems on Banach lattices. Optimization, 0, , 1-33.	1.0	3
373	Density and connectedness of optimal points with respect to improvement sets. Optimization, 0, , 1-30.	1.0	1