

Hongyi Gao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

3,055
citations

31
h-index

53
g-index

89
ext. papers

3,990
ext. citations

8.2
avg. IF

5.79
L-index

#	Paper	IF	Citations
89	Base-free catalytic aerobic oxidation of mercaptans over MOF-derived Co/CN catalyst with controllable composition and structure. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 1836-1848	9.3	0
88	Engineering attractive interaction in ZIF-based phase change materials for boosting electro- and photo- driven thermal energy storage. <i>Chemical Engineering Journal</i> , 2022 , 430, 133007	14.7	5
87	Top-down synthetic strategies toward single atoms on the rise. <i>Matter</i> , 2022 , 5, 788-807	12.7	2
86	Metalloporphyrin-Decorated Titanium Dioxide Nanosheets for Efficient Photocatalytic Carbon Dioxide Reduction. <i>Inorganic Chemistry</i> , 2021 , 60, 18337-18346	5.1	2
85	Carbon-Based Composite Phase Change Materials for Thermal Energy Storage, Transfer, and Conversion. <i>Advanced Science</i> , 2021 , 8, 2001274	13.6	45
84	Fine-Tuning the Metal Oxo Cluster Composition and Phase Structure of Ni/Ti Bimetallic MOFs for Efficient CO ₂ Reduction. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9200-9209	3.8	3
83	Construction of dual ligand Ti-based MOFs with enhanced photocatalytic CO ₂ reduction performance. <i>Journal of CO₂ Utilization</i> , 2021 , 48, 101528	7.6	9
82	Encapsulation of lauric acid in reduced graphene-N-doped porous carbon supporting scaffold for multi-functional phase change composites. <i>Renewable Energy</i> , 2021 , 170, 661-668	8.1	8
81	Different dimensional nanoadditives for thermal conductivity enhancement of phase change materials: Fundamentals and applications. <i>Nano Energy</i> , 2021 , 85, 105948	17.1	41
80	Cobalt-embedded few-layered carbon nanosheets toward enhanced hydrogen evolution: Rational design and insight into structure-performance correlation. <i>Journal of Energy Chemistry</i> , 2021 , 58, 156-161 ¹²		
79	In situ semi-sacrificial template-assisted growth of ultrathin metal-organic framework nanosheets for electrocatalytic oxygen evolution. <i>Chemical Engineering Journal</i> , 2021 , 426, 131348	14.7	2
78	Smart Utilization of Multifunctional Metal Oxides in Phase Change Materials. <i>Matter</i> , 2020 , 3, 708-741	12.7	41
77	In situ one-step construction of monolithic silica aerogel-based composite phase change materials for thermal protection. <i>Composites Part B: Engineering</i> , 2020 , 195, 108072	10	34
76	In-situ Self-transformation Synthesis of N-doped Carbon Coating Paragenetic Anatase/Rutile Heterostructure with Enhanced Photocatalytic CO ₂ Reduction Activity. <i>ChemCatChem</i> , 2020 , 12, 3274-3284	5.2	7
75	Phase Change Materials for Electro-Thermal Conversion and Storage: From Fundamental Understanding to Engineering Design. <i>iScience</i> , 2020 , 23, 101208	6.1	26
74	Hierarchical nitrogen-doped porous carbon incorporating cobalt nanocrystal sites for nitrophenol reduction. <i>Chemical Engineering Science</i> , 2020 , 217, 115525	4.4	12
73	Flexible monolithic phase change material based on carbon nanotubes/chitosan/poly(vinyl alcohol). <i>Chemical Engineering Journal</i> , 2020 , 397, 125330	14.7	32

72	Atomically dispersed ruthenium sites on whisker-like secondary microstructure of porous carbon host toward highly efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3203-3210	13	14
71	Carbon nanotube bundles assembled flexible hierarchical framework based phase change material composites for thermal energy harvesting and thermotherapy. <i>Energy Storage Materials</i> , 2020 , 26, 129-137	19.4	66
70	In-situ derived graphene from solid sodium acetate for enhanced photothermal conversion, thermal conductivity, and energy storage capacity of phase change materials. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 205, 110269	6.4	14
69	Metal-Organic Framework-based Phase Change Materials for Thermal Energy Storage. <i>Cell Reports Physical Science</i> , 2020 , 1, 100218	6.1	17
68	Toward Tailoring Chemistry of Silica-Based Phase Change Materials for Thermal Energy Storage. <i>IScience</i> , 2020 , 23, 101606	6.1	12
67	Optimization strategies of composite phase change materials for thermal energy storage, transfer, conversion and utilization. <i>Energy and Environmental Science</i> , 2020 , 13, 4498-4535	35.4	64
66	3D Hydrangea Macrophylla-like Nickel-Vanadium Metal-Organic Frameworks Formed by Self-Assembly of Ultrathin 2D Nanosheets for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48495-48510	9.5	18
65	HKUST-1 derived Cu@CuO /carbon catalyst for base-free aerobic oxidative coupling of benzophenone imine: high catalytic efficiency and excellent regeneration performance.. <i>RSC Advances</i> , 2020 , 10, 36111-36118	3.7	0
64	Self-templating synthesis of hollow NiFe hydroxide nanospheres for efficient oxygen evolution reaction. <i>Electrochimica Acta</i> , 2020 , 357, 136869	6.7	2
63	Efficient photocatalysts of a tetraphenylporphyrin/P25 hybrid for visible-light photoreduction of CO ₂ . <i>New Journal of Chemistry</i> , 2020 , 44, 17229-17235	3.6	1
62	Network Structural CNTs Penetrate Porous Carbon Support for Phase-Change Materials with Enhanced Electro-Thermal Performance. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901428	6.4	11
61	Vacuum-dried flexible hydrophobic aerogels using bridged methylsiloxane as reinforcement: performance regulation with alkylorthosilicate or alkyltrimethoxysilane co-precursors. <i>New Journal of Chemistry</i> , 2019 , 43, 2204-2212	3.6	8
60	Construction of TiO ₂ nanosheets/tetra (4-carboxyphenyl) porphyrin hybrids for efficient visible-light photoreduction of CO ₂ . <i>Chemical Engineering Journal</i> , 2019 , 374, 684-693	14.7	25
59	3D Self-Supported Porous NiO@NiMoO Core-Shell Nanosheets for Highly Efficient Oxygen Evolution Reaction. <i>Inorganic Chemistry</i> , 2019 , 58, 6758-6764	5.1	17
58	Directly ambient pressure dried robust bridged silsesquioxane and methylsiloxane aerogels: effects of precursors and solvents.. <i>RSC Advances</i> , 2019 , 9, 8664-8671	3.7	6
57	Cobalt-tuned nickel phosphide nanoparticles for highly efficient electrocatalysis. <i>Applied Surface Science</i> , 2019 , 479, 1254-1261	6.7	20
56	A facile one-step synthesis of porous N-doped carbon from MOF for efficient thermal energy storage capacity of shape-stabilized phase change materials. <i>Materials Today Energy</i> , 2019 , 12, 239-249	7	32
55	Smart integration of carbon quantum dots in metal-organic frameworks for fluorescence-functionalized phase change materials. <i>Energy Storage Materials</i> , 2019 , 18, 349-355	19.4	66

54	Construction of covalently integrated core-shell TiO ₂ nanobelts@COF hybrids for highly selective oxidation of alcohols under visible light. <i>Applied Surface Science</i> , 2019 , 493, 551-560	6.7	32
53	Difference between Metal-S and Metal-O Bond Orders: A Descriptor of Oxygen Evolution Activity for Isolated Metal Atom-Doped MoS Nanosheets. <i>IScience</i> , 2019 , 20, 481-488	6.1	10
52	Nanoconfinement effects of N-doped hierarchical carbon on thermal behaviors of organic phase change materials. <i>Energy Storage Materials</i> , 2019 , 18, 280-288	19.4	51
51	Shape-stabilized phase change materials based on porous supports for thermal energy storage applications. <i>Chemical Engineering Journal</i> , 2019 , 356, 641-661	14.7	305
50	Two-phase interface-facilitated synthesis of graphene-like carbon nanosheets and their interfacial assembly behaviors. <i>Chemical Physics</i> , 2019 , 516, 132-138	2.3	4
49	Decorating cobalt phosphide and rhodium on reduced graphene oxide for high-efficiency hydrogen evolution reaction. <i>Journal of Energy Chemistry</i> , 2019 , 34, 72-79	12	19
48	One-pot self-assembly of sisal-like TiO ₂ on graphene-like carbon sheets via a novel two-phase interface-facilitated route. <i>Journal of Alloys and Compounds</i> , 2019 , 776, 763-772	5.7	1
47	Cu@Cu P Core-Shell Nanowires Attached to Nickel Foam as High-Performance Electrocatalysts for the Hydrogen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2019 , 25, 1083-1089	4.8	8
46	Vacuum-Dried Synthesis of Low-Density Hydrophobic Monolithic Bridged Silsesquioxane Aerogels for Oil/Water Separation: Effects of Acid Catalyst and Its Excellent Flexibility. <i>ACS Applied Nano Materials</i> , 2018 , 1, 933-939	5.6	21
45	One-pot synthesis of light-driven polymeric composite phase change materials based on N-doped porous carbon for enhanced latent heat storage capacity and thermal conductivity. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 179, 392-400	6.4	22
44	Introduction of organic-organic eutectic PCM in mesoporous N-doped carbons for enhanced thermal conductivity and energy storage capacity. <i>Applied Energy</i> , 2018 , 211, 1203-1215	10.7	92
43	Highly graphitized 3D network carbon for shape-stabilized composite PCMs with superior thermal energy harvesting. <i>Nano Energy</i> , 2018 , 49, 86-94	17.1	135
42	Core-sheath structural carbon materials for integrated enhancement of thermal conductivity and capacity. <i>Applied Energy</i> , 2018 , 217, 369-376	10.7	60
41	Facial fabrication of hierarchical 3D Sisal-like CuO/ZnO nanocomposite and its catalytic properties. <i>Chemical Physics Letters</i> , 2018 , 708, 77-80	2.5	9
40	Construction of CNT@Cr-MIL-101-NH ₂ hybrid composite for shape-stabilized phase change materials with enhanced thermal conductivity. <i>Chemical Engineering Journal</i> , 2018 , 350, 164-172	14.7	85
39	A one-step in-situ assembly strategy to construct PEG@MOG-100-Fe shape-stabilized composite phase change material with enhanced storage capacity for thermal energy storage. <i>Chemical Physics Letters</i> , 2018 , 695, 99-106	2.5	15
38	Synthesis and Characterization of Paraffin/Metal Organic Gel Derived Porous Carbon/Boron Nitride Composite Phase Change Materials for Thermal Energy Storage. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 5167-5175	2.3	25
37	NMOF self-templating synthesis of hollow porous metal oxides for enhanced lithium-ion battery anodes. <i>New Journal of Chemistry</i> , 2018 , 42, 17902-17908	3.6	2

36	Nanoconfinement effects on thermal properties of nanoporous shape-stabilized composite PCMs: A review. <i>Nano Energy</i> , 2018 , 53, 769-797	17.1	178
35	Hierarchical 3D Reduced Graphene Porous-Carbon-Based PCMs for Superior Thermal Energy Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32093-32101	9.5	56
34	Controlled synthesis of hierarchical Cu nanosheets @ CuO nanorods as high-performance anode material for lithium-ion batteries. <i>Nano Energy</i> , 2017 , 33, 427-435	17.1	79
33	Porous organic/inorganic hybrid xerogels for stearic acid shape-stabilized phase change materials. <i>New Journal of Chemistry</i> , 2017 , 41, 1790-1797	3.6	17
32	Shape-Stabilized Phase Change Materials Based on Stearic Acid and Mesoporous Hollow SiO ₂ Microspheres (SA/SiO ₂) for Thermal Energy Storage. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 2138-2143	2.3	27
31	Hierarchical Ni(OH) ₂ Composed of Ultrathin Nanosheets with Controlled Interlayer Distances and Their Enhanced Catalytic Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20476-20483	9.5	19
30	Hierarchically nanostructured MnCo ₂ O ₄ as active catalysts for the synthesis of N-benzylideneaniline from benzyl alcohol and aniline. <i>Green Chemistry</i> , 2017 , 19, 769-777	10	66
29	Controlled Synthesis of 3D Flower-like Ni P Composed of Mesoporous Nanoplates for Overall Water Splitting. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2956-2961	4.5	23
28	Facile synthesis of Cu ₃ (BTC) ₂ /cellulose acetate mixed matrix membranes and their catalytic applications in continuous flow process. <i>New Journal of Chemistry</i> , 2017 , 41, 9123-9129	3.6	13
27	Preparation and catalytic performance of mesoporous ceria-base composites CuO/CeO ₂ , Fe ₂ O ₃ /CeO ₂ and La ₂ O ₃ /CeO ₂ . <i>Journal of Porous Materials</i> , 2017 , 24, 795-803	2.4	13
26	In Situ-Induced Synthesis of Magnetic Cu-CuFe ₂ O ₄ @HKUST-1 Heterostructures with Enhanced Catalytic Performance for Selective Aerobic Benzylic C-H Oxidation. <i>ACS Catalysis</i> , 2017 , 7, 243-249	13.1	56
25	One-Pot Preparation of Hierarchical Nanosheet-Constructed Fe ₃ O ₄ /MIL-88B(Fe) Magnetic Microspheres with High Efficiency Photocatalytic Degradation of Dye. <i>ChemCatChem</i> , 2016 , 8, 3510-3517	5.2	35
24	Superparamagnetic Core-Shell Metal-Organic Framework Fe ₃ O ₄ /Cu ₃ (btc) ₂ Microspheres and Their Catalytic Activity in the Aerobic Oxidation of Alcohols and Olefins. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 4906-4912	2.3	28
23	NiO promoted CuO/NiO/SBA-15 composites as highly active catalysts for epoxidation of olefins. <i>New Journal of Chemistry</i> , 2016 , 40, 8543-8548	3.6	14
22	One-Pot Fabrication of Hierarchical Nanosheet-Based TiO ₂ -Carbon Hollow Microspheres for Anode Materials of High-Rate Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2016 , 22, 6031-6	4.8	23
21	Surface functionalization engineering driven crystallization behavior of polyethylene glycol confined in mesoporous silica for shape-stabilized phase change materials. <i>Nano Energy</i> , 2016 , 19, 78-87	17.1	141
20	SO ₃ H-functionalized metal organic frameworks: an efficient heterogeneous catalyst for the synthesis of quinoxaline and derivatives. <i>RSC Advances</i> , 2016 , 6, 35135-35143	3.7	24
19	Introduction of an organic acid phase changing material into metal-organic frameworks and the study of its thermal properties. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7641-7649	13	92

18	Imine-linked micron-network polymers with high polyethylene glycol uptake for shaped-stabilized phase change materials. <i>RSC Advances</i> , 2016 , 6, 44807-44813	3.7	20
17	A facile approach for fabrication of TiO ₂ hierarchical nanostructures and their photocatalytic properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 508, 184-191	5.1	11
16	A general post-synthetic modification approach of amino-tagged metal-organic frameworks to access efficient catalysts for the Knoevenagel condensation reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17320-17331	13	162
15	Imparting magnetic functionality to iron-based MIL-101 via facile Fe ₃ O ₄ nanoparticle encapsulation: an efficient and recoverable catalyst for aerobic oxidation. <i>RSC Advances</i> , 2015 , 5, 78962-78970 ²¹	3.7	21
14	Monodispersed poly(4-vinylpyridine) spheres supported Fe(III) material: An efficient and reusable catalyst for benzylic oxidation. <i>Journal of Molecular Catalysis A</i> , 2015 , 404-405, 186-192		14
13	Synthesis of a flower-like Zr-based metal-organic framework and study of its catalytic performance in the Mannich reaction. <i>RSC Advances</i> , 2015 , 5, 19273-19278	3.7	52
12	Oriented immobilization of Au nanoparticles on C@P4VP core-shell microspheres and their catalytic performance. <i>New Journal of Chemistry</i> , 2015 , 39, 2949-2955	3.6	14
11	A facile in situ self-assembly strategy for large-scale fabrication of CHS@MOF yolk/shell structure and its catalytic application in a flow system. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4667-74	9.5	38
10	Highly efficient sulfonated-polystyrene@Cu(II)@Cu ₃ (BTC) ₂ core-shell microsphere catalysts for base-free aerobic oxidation of alcohols. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4266-4273	13	36
9	A fast synthesis of hierarchical yolk-shell copper hydroxysulfates at room temperature with adjustable sizes. <i>CrystEngComm</i> , 2014 , 16, 2520	3.3	12
8	The development of a novel HAuCl@MOF catalyst and its catalytic application in the formation of dihydrochalcones. <i>RSC Advances</i> , 2014 , 4, 34199-34203	3.7	10
7	Synthesis of a Fe ₃ O ₄ @CuO@meso-SiO ₂ nanostructure as a magnetically recyclable and efficient catalyst for styrene epoxidation. <i>Catalysis Science and Technology</i> , 2014 , 4, 3082-3089	5.5	34
6	Synthesis of an amino-functionalized metal-organic framework at a nanoscale level for gold nanoparticle deposition and catalysis. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20588-20596	13	110
5	Temperature-, pH-, and ion-stimulus-responsive swelling behaviors of poly(dimethylaminoethyl methacrylate) gel containing cholic acid. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	4
4	Study on the structure and reactivity of COREX coal. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 113, 693-701	4.1	7
3	Effect of partial substitution of Ca in LaMnO ₃ on coal catalytic combustion. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 112, 719-726	4.1	10
2	One-step fabrication of 3D hierarchical Ni-incorporated FeCo(OH) ₂ assembled by 2D center disk and 1D length-tunable brush. <i>RSC Advances</i> , 2013 , 3, 2604	3.7	7
1	Novel tunable hierarchical Ni-Co hydroxide and oxide assembled from two-wheeled units. <i>Nanotechnology</i> , 2012 , 23, 015607	3.4	31

