

Bo Han

List of Publications by Year in descending order

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90
papers

3,155
citations

168829

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198040

52
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all docs

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docs citations

91
times ranked

5105
citing authors

#	ARTICLE	IF	CITATIONS
1	Doping phosphorus into Co ₃ O ₄ : A new promising pathway to boost the catalytic activity for peroxymonosulfate activation. <i>Applied Surface Science</i> , 2022, 574, 151632.	3.1	15
2	Constructing novel hyper-crosslinked conjugated polymers through molecular expansion for enhanced gas adsorption performance. <i>Journal of Hazardous Materials</i> , 2022, 426, 127850.	6.5	16
3	Fabricating yolk-shell structured CoTiO ₃ @Co ₃ O ₄ nanoreactor via a simple self-template method toward high-performance peroxymonosulfate activation and organic pollutant degradation. <i>Applied Surface Science</i> , 2021, 536, 147787.	3.1	49
4	Water-soluble Cross-Linking Functional Binder for Low-Cost and High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2104858.	7.8	50
5	Understanding the electronic metal-support interactions of the supported Ni cluster for the catalytic hydrogenation of ethylene. <i>Molecular Catalysis</i> , 2021, 511, 111731.	1.0	4
6	Direct epitaxial growth of nickel phosphide nanosheets on nickel foam as self-support electrode for efficient non-enzymatic glucose sensing. <i>Nanotechnology</i> , 2021, 32, 435501.	1.3	8
7	Composition-engineered LaCoO ₃ -based monolithic catalysts for easily operational and robust peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2021, 424, 130574.	6.6	26
8	Postsynthetic incorporation of catalytically inert Al into Co ₃ O ₄ for peroxymonosulfate activation and insight into the boosted catalytic performance. <i>Chemical Engineering Journal</i> , 2021, 426, 131292.	6.6	22
9	Molecular mechanisms of interaction between enzymes and Maillard reaction products formed from thermal hydrolysis pretreatment of waste activated sludge. <i>Water Research</i> , 2021, 206, 117777.	5.3	26
10	Palladium nanoparticles uniformly and firmly supported on hierarchical flower-like TiO ₂ nanospheres as a highly active and reusable catalyst for detoxification of Cr(VI)-contaminated water. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 359-369.	1.6	13
11	Hydrous titania nanosheets constructed hierarchical hollow microspheres as a highly efficient dual-use decontaminant for elimination of heavy metal ions and organic pollutants. <i>Chemical Engineering Journal</i> , 2020, 381, 122638.	6.6	33
12	Unique electron reservoir properties of manganese in Mn(II)-doped CeO ₂ for reversible electron transfer and enhanced Fenton-like catalytic performance. <i>Applied Surface Science</i> , 2020, 502, 144295.	3.1	20
13	Architecturing CoTiO ₃ overlayer on nanosheets-assembled hierarchical TiO ₂ nanospheres as a highly active and robust catalyst for peroxymonosulfate activation and metronidazole degradation. <i>Chemical Engineering Journal</i> , 2020, 392, 123819.	6.6	58
14	Encapsulating tin oxide nanoparticles into holey carbon nanotubes by melt infiltration for superior lithium and sodium ion storage. <i>Journal of Power Sources</i> , 2020, 449, 227564.	4.0	26
15	Effective coating of crosslinked polyethyleneimine on elastic spongy monolith for highly efficient batch and continuous flow adsorption of Pb(II) and acidic red 18. <i>Chemical Engineering Journal</i> , 2020, 391, 123610.	6.6	34
16	Hierarchical flower-like Co ₂ TiO ₄ nanosheets with unique structural and compositional advantages to boost peroxymonosulfate activation for degradation of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20953-20962.	5.2	50
17	Effect of extracellular polymer substances on the tetracycline removal during coagulation process. <i>Bioresource Technology</i> , 2020, 309, 123316.	4.8	39
18	Synergistic effect between gold nanoparticles and Fe-doped ³ MnO ₂ toward enhanced aerobic selective oxidation of ethanol. <i>Catalysis Science and Technology</i> , 2020, 10, 4332-4339.	2.1	9

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19	Significant enhancement of photo-Fenton degradation of ofloxacin over Fe-Dis@Sep due to highly dispersed FeC ₆ with electron deficiency. <i>Science of the Total Environment</i> , 2020, 723, 138144.	3.9	16
20	A single molecular sensor for selective and differential colorimetric/ratiometric detection of Cu ²⁺ and Pd ²⁺ in 100% aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 237, 118365.	2.0	14
21	Fabrication of Organic Probe Decorated Water-Soluble Polymer Chains on Natural Fibers for Selective Detection and Efficient Removal of Hg ²⁺ Ions in Pure Aqueous Media. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2680-2691.	2.0	5
22	A single polymer chemosensor for differential determination of Hg ²⁺ and Cu ²⁺ in pure aqueous media without mutual interference. <i>Materials Today Communications</i> , 2019, 19, 148-156.	0.9	11
23	Ultrafine SnO ₂ aggregates in interior of porous carbon nanotubes as high-performance anode materials of lithium-ion batteries. <i>Materials Today Energy</i> , 2019, 12, 303-310.	2.5	26
24	A first-principles investigation of the influence of polyanionic boron doping on the stability and electrochemical behavior of Na ₃ V ₂ (PO ₄) ₃ . <i>Journal of Molecular Modeling</i> , 2019, 25, 96.	0.8	14
25	Toward High Activity and Durability: An Oxygen-Rich Boron Nitride-Supported Au Nanoparticles for 4-Nitrophenol Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10389-10397.	1.5	25
26	Carboxyl-functionalized lotus seedpod: A highly efficient and reusable agricultural waste-based adsorbent for removal of toxic Pb ²⁺ ions from aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 568, 391-401.	2.3	28
27	One-pot synthesis of a novel hierarchical Co(II)-doped TiO ₂ nanostructure: Toward highly active and durable catalyst of peroxymonosulfate activation for degradation of antibiotics and other organic pollutants. <i>Chemical Engineering Journal</i> , 2019, 368, 377-389.	6.6	88
28	Facile Synthesis of Hierarchically Porous N/P Codoped Carbon with Simultaneously High-Level Heteroatom-Doping and Moderate Porosity for High-Performance Supercapacitor Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5717-5726.	3.2	79
29	Carbon Quantum Dot Implanted Graphite Carbon Nitride Nanotubes: Excellent Charge Separation and Enhanced Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 2018, 130, 5867-5873.	1.6	69
30	Carbon Quantum Dot Implanted Graphite Carbon Nitride Nanotubes: Excellent Charge Separation and Enhanced Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5765-5771.	7.2	372
31	Crosslinked poly(ionic liquid) anchored with organic probe as a new promising platform for organic solvent-free recognition, quantification, and selective removal of heavy metal ion. <i>Chemical Engineering Journal</i> , 2018, 346, 458-465.	6.6	17
32	Surface Facet of CuFeO ₂ Nanocatalyst: A Key Parameter for H ₂ O ₂ Activation in Fenton-Like Reaction and Organic Pollutant Degradation. <i>Environmental Science & Technology</i> , 2018, 52, 6518-6525.	4.6	150
33	Insight into the high-efficient functionalization of carbon nanotubes by advanced oxidation using peroxymonosulfate. <i>Microporous and Mesoporous Materials</i> , 2018, 260, 24-29.	2.2	7
34	Ionic liquid-grafted probe for selective detection and individual identification of different metal ions in 100% aqueous solutions. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 411-419.	4.0	17
35	Cu Nanoparticles Supported on Oxygen-Rich Boron Nitride for the Reduction of 4-Nitrophenol. <i>ACS Applied Nano Materials</i> , 2018, 1, 6692-6700.	2.4	33
36	Transition-Metal Ion-Doped Flower-Like Titania Nanospheres as Nonlight-Driven Catalysts for Organic Dye Degradation with Enhanced Performances. <i>ACS Omega</i> , 2018, 3, 17724-17731.	1.6	16

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37	N/P Codoped Porous Carbon-Coated Graphene Nanohybrid as a High-Performance Electrode for Supercapacitors. ACS Applied Nano Materials, 2018, 1, 6742-6751.	2.4	33
38	Direct implementation of K ₃ Fe(CN) ₆ as cathode materials of sodium-ion batteries. Materials Today Energy, 2018, 10, 302-306.	2.5	6
39	Simple and Controllable Synthesis of High-Quality MnTiO ₃ Nanodiscs and Their Application as A Highly Efficient Catalyst for H ₂ O ₂ -Mediated Oxidative Degradation. ACS Applied Nano Materials, 2018, 1, 2727-2738.	2.4	21
40	Poly(ionic liquid) as an efficient carrier of hydrophobic small-molecule probes for ion detections in pure aqueous environments. Sensors and Actuators B: Chemical, 2017, 245, 104-111.	4.0	7
41	Au nanoparticles embedded on urchin-like TiO ₂ nanosphere: An efficient catalyst for dyes degradation and 4-nitrophenol reduction. Materials and Design, 2017, 121, 167-175.	3.3	65
42	Density Functional Theory Study on the Role of Polyacetylene as a Promoter in Selective Hydrogenation of Styrene on a Pd Catalyst. Journal of Physical Chemistry C, 2017, 121, 4246-4252.	1.5	7
43	Density functional theory study of the mechanism for the formation of glycidyl esters from triglyceride. Journal of Molecular Modeling, 2017, 23, 83.	0.8	2
44	Design of efficient mono-aminosilane precursors for atomic layer deposition of SiO ₂ thin films. RSC Advances, 2017, 7, 22672-22678.	1.7	16
45	Marine redox stratification during the early Cambrian (ca. 529–509 Ma) and its control on the development of organic-rich shales in the Yangtze Platform. Geochemistry, Geophysics, Geosystems, 2017, 18, 2354-2369.	1.0	34
46	Synthesis of MnSiO ₃ decorated hollow mesoporous silica spheres and its promising application in environmental remediation. Microporous and Mesoporous Materials, 2017, 241, 409-417.	2.2	23
47	Ultrafast and high-capacity adsorption of Gd(III) onto inorganic phosphorous acid modified mesoporous SBA-15. Chemical Engineering Journal, 2017, 313, 197-206.	6.6	81
48	Partial-Redox-Promoted Mn Cycling of Mn(II)-Doped Heterogeneous Catalyst for Efficient H ₂ O ₂ -Mediated Oxidation. ACS Applied Materials & Interfaces, 2017, 9, 371-380.	4.0	31
49	Computational Criteria for Evaluating Polysulfide Cohesion, Solvation, and Stabilization: Approach for Screening Effective Anchoring Substrates. Journal of Physical Chemistry C, 2017, 121, 308-314.	1.5	10
50	A study on the catalytic hydrogenation of N-ethylcarbazole on the mesoporous Pd/MoO ₃ catalyst. International Journal of Hydrogen Energy, 2017, 42, 25942-25950.	3.8	39
51	Facile and scalable synthesis of hierarchically porous graphene architecture for hydrogen storage and high-rate supercapacitors. Journal of Materials Science: Materials in Electronics, 2017, 28, 17675-17681.	1.1	10
52	Facile and controllable synthesis of N/P co-doped graphene for high-performance supercapacitors. Journal of Power Sources, 2017, 365, 380-388.	4.0	100
53	Three-dimensionally porous graphene: A high-performance adsorbent for removal of albumin-bonded bilirubin. Colloids and Surfaces B: Biointerfaces, 2017, 149, 146-153.	2.5	50
54	Controllable fabrication of 2D and 3D porous graphene architectures using identical thermally exfoliated graphene oxides as precursors and their application as supercapacitor electrodes. Microporous and Mesoporous Materials, 2017, 237, 228-236.	2.2	39

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55	Facile one-pot synthesis of magnetic nitrogen-doped porous carbon for high-performance bilirubin removal from BSA-rich solution. <i>RSC Advances</i> , 2017, 7, 2081-2091.	1.7	24
56	Nickel Family Metal Clusters for Catalytic Hydrogenation Processes. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2017, 33, 1310-1323.	2.2	3
57	Instability of Zinc Hexacyanoferrate Electrode in an Aqueous Environment: Redox-Induced Phase Transition, Compound Dissolution, and Inhibition. <i>ChemElectroChem</i> , 2016, 3, 798-804.	1.7	32
58	Solvothermal synthesis of Mn Fe ₃ O ₄ nanoparticles with interesting physicochemical characteristics and good catalytic degradation activity. <i>Materials and Design</i> , 2016, 97, 341-348.	3.3	62
59	On the Mechanism of the Improved Operation Voltage of Rhombohedral Nickel Hexacyanoferrate as Cathodes for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33619-33625.	4.0	89
60	A hyperbranched conjugated Schiff base polymer network: a potential negative electrode for flexible thin film batteries. <i>Chemical Communications</i> , 2016, 52, 3000-3002.	2.2	40
61	Remarkable performance of magnetized chitosan-decorated lignocellulose fiber towards biosorptive removal of acidic azo colorant from aqueous environment. <i>Reactive and Functional Polymers</i> , 2016, 100, 97-106.	2.0	25
62	Lithium-Sulfur Batteries: Enabling Prominent High-Rate and Cycle Performances in One Lithium-Sulfur Battery: Designing Permselective Gateways for Li ⁺ Transportation in Holey-CNT/S Cathodes (Adv. Mater. 25/2015). <i>Advanced Materials</i> , 2015, 27, 3840-3840.	11.1	2
63	Enabling Prominent High-Rate and Cycle Performances in One Lithium-Sulfur Battery: Designing Permselective Gateways for Li ⁺ Transportation in Holey-CNT/S Cathodes. <i>Advanced Materials</i> , 2015, 27, 3774-3781.	11.1	92
64	Mechanistic Study on Water Gas Shift Reaction on the Fe ₃ O ₄ (111) Reconstructed Surface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28934-28945.	1.5	44
65	High-performance lithium/sulfur batteries by decorating CMK-3/S cathodes with DNA. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7241-7247.	5.2	27
66	Influence of Charge on the Reactivity of Supported Heterogeneous Transition Metal Catalysts. <i>ACS Catalysis</i> , 2015, 5, 4592-4597.	5.5	21
67	The roles of active species in photo-decomposition of organic compounds by microwave powered electrodeless discharge lamps. <i>Journal of Environmental Sciences</i> , 2015, 33, 60-68.	3.2	14
68	Anchoring Lithium Polysulfides via Affinitive Interactions: Electrostatic Attraction, Hydrogen Bonding, or in Parallel?. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20495-20502.	1.5	53
69	Selective Adsorption of Gd ³⁺ on a Magnetically Retrievable Imprinted Chitosan/Carbon Nanotube Composite with High Capacity. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21047-21055.	4.0	114
70	Density functional theory study on the full ALD process of silicon nitride thin film deposition via BDEAS or BTBAS and NH ₃ . <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18501.	1.3	28
71	Analytic Force Field for Clusters and Nanoparticles of Aluminum and Its Hydride. <i>Physical Review Applied</i> , 2014, 1, .	1.5	0
72	Effect of Al Electronic Configuration on the SiO ₂ Thin Film Growth via Catalytic Self-Assembling Deposition. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22705-22713.	1.5	6

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73	On the CO ₂ Capture in Water-Free Monoethanolamine Solution: An ab Initio Molecular Dynamics Study. Journal of Physical Chemistry B, 2013, 117, 5971-5977.	1.2	30
74	On the Mechanisms of SiO ₂ Thin-Film Growth by the Full Atomic Layer Deposition Process Using Bis(<i>t</i> -butylamino)silane on the Hydroxylated SiO ₂ (001) Surface. Journal of Physical Chemistry C, 2012, 116, 947-952.	1.5	50
75	First-Principles Study of Hydrogenation of Ethylene on a H _x MoO ₃ (010) Surface. Journal of Physical Chemistry C, 2012, 116, 24630-24638.	1.5	25
76	On the Mechanisms of Carbon Formation Reaction on Ni(111) Surface. Journal of Physical Chemistry C, 2012, 116, 16522-16531.	1.5	19
77	First Principles Study of Steam Carbon Reaction on $\hat{1}^3$ -Fe(111) Surface. Journal of Physical Chemistry C, 2011, 115, 12068-12076.	1.5	9
78	Understanding CO ₂ Capture Mechanisms in Aqueous Monoethanolamine via First Principles Simulations. Journal of Physical Chemistry Letters, 2011, 2, 522-526.	2.1	91
79	First-Principles Simulations of Conditions of Enhanced Adhesion Between Copper and TaN(111) Surfaces Using a Variety of Metallic Glue Materials. Angewandte Chemie - International Edition, 2010, 49, 148-152.	7.2	16
80	Density Functional Theory Study of Water Dissociative Chemisorption on the Fe ₃ O ₄ (111) Surface. Journal of Physical Chemistry C, 2010, 114, 21405-21410.	1.5	56
81	A first principles study of water dissociation on small copper clusters. Physical Chemistry Chemical Physics, 2010, 12, 9845.	1.3	28
82	Chemisorption of small fullerenes C_n		