Bo Han

List of Publications by Year in descending order

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147801 175258 3,155 90 31 52 citations h-index g-index papers 91 91 91 4515 citing authors all docs docs citations times ranked

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Carbon Quantum Dot Implanted Graphite Carbon Nitride Nanotubes: Excellent Charge Separation and Enhanced Photocatalytic Hydrogen Evolution. Angewandte Chemie - International Edition, 2018, 57, 5765-5771. | 13.8 | 372 |
| 2 | Surface Facet of CuFeO ₂ Nanocatalyst: A Key Parameter for H ₂ O ₂ Activation in Fenton-Like Reaction and Organic Pollutant Degradation. Environmental Science & Environmental Science & Technology, 2018, 52, 6518-6525. | 10.0 | 150 |
| 3 | Selective Adsorption of Gd ³⁺ on a Magnetically Retrievable Imprinted Chitosan/Carbon Nanotube Composite with High Capacity. ACS Applied Materials & Interfaces, 2015, 7, 21047-21055. | 8.0 | 114 |
| 4 | Facile and controllable synthesis of N/P co-doped graphene for high-performance supercapacitors. Journal of Power Sources, 2017, 365, 380-388. | 7.8 | 100 |
| 5 | Enabling Prominent Highâ€Rate and Cycle Performances in One Lithium–Sulfur Battery: Designing Permselective Gateways for Li ⁺ Transportation in Holey NT/S Cathodes. Advanced Materials, 2015, 27, 3774-3781. | 21.0 | 92 |
| 6 | Understanding CO ₂ Capture Mechanisms in Aqueous Monoethanolamine via First Principles Simulations. Journal of Physical Chemistry Letters, 2011, 2, 522-526. | 4.6 | 91 |
| 7 | On the Mechanism of the Improved Operation Voltage of Rhombohedral Nickel Hexacyanoferrate as Cathodes for Sodium-Ion Batteries. ACS Applied Materials & Samp; Interfaces, 2016, 8, 33619-33625. | 8.0 | 89 |
| 8 | One-pot synthesis of a novel hierarchical Co(II)-doped TiO2 nanostructure: Toward highly active and durable catalyst of peroxymonosulfate activation for degradation of antibiotics and other organic pollutants. Chemical Engineering Journal, 2019, 368, 377-389. | 12.7 | 88 |
| 9 | Ultrafast and high-capacity adsorption of Gd(III) onto inorganic phosphorous acid modified mesoporous SBA-15. Chemical Engineering Journal, 2017, 313, 197-206. | 12.7 | 81 |
| 10 | Facile Synthesis of Hierarchically Porous N/P Codoped Carbon with Simultaneously High-Level Heteroatom-Doping and Moderate Porosity for High-Performance Supercapacitor Electrodes. ACS Sustainable Chemistry and Engineering, 2019, 7, 5717-5726. | 6.7 | 79 |
| 11 | Carbon Quantum Dot Implanted Graphite Carbon Nitride Nanotubes: Excellent Charge Separation and Enhanced Photocatalytic Hydrogen Evolution. Angewandte Chemie, 2018, 130, 5867-5873. | 2.0 | 69 |
| 12 | 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. | 7.0 | 65 |
| 13 | Solvothermal synthesis of Mn Fe3â^O4 nanoparticles with interesting physicochemical characteristics and good catalytic degradation activity. Materials and Design, 2016, 97, 341-348. | 7.0 | 62 |
| 14 | Architecturing CoTiO3 overlayer on nanosheets-assembled hierarchical TiO2 nanospheres as a highly active and robust catalyst for peroxymonosulfate activation and metronidazole degradation. Chemical Engineering Journal, 2020, 392, 123819. | 12.7 | 58 |
| 15 | 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. | 3.1 | 56 |
| 16 | Anchoring Lithium Polysulfides via Affinitive Interactions: Electrostatic Attraction, Hydrogen Bonding, or in Parallel?. Journal of Physical Chemistry C, 2015, 119, 20495-20502. | 3.1 | 53 |
| 17 | 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. | 3.1 | 50 |
| 18 | Three-dimensionally porous graphene: A high-performance adsorbent for removal of albumin-bonded bilirubin. Colloids and Surfaces B: Biointerfaces, 2017, 149, 146-153. | 5.0 | 50 |

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|----|---|------|-----------|
| 19 | Hierarchical flower-like Co ₂ TiO ₄ nanosheets with unique structural and compositional advantages to boost peroxymonosulfate activation for degradation of organic pollutants. Journal of Materials Chemistry A, 2020, 8, 20953-20962. | 10.3 | 50 |
| 20 | Waterâ€Soluble Crossâ€Linking Functional Binder for Lowâ€Cost and Highâ€Performance Lithium–Sulfur Batteries. Advanced Functional Materials, 2021, 31, 2104858. | 14.9 | 50 |
| 21 | Fabricating yolk–shell structured CoTiO3@Co3O4 nanoreactor via a simple self-template method toward high-performance peroxymonosulfate activation and organic pollutant degradation. Applied Surface Science, 2021, 536, 147787. | 6.1 | 49 |
| 22 | Mechanistic Study on Water Gas Shift Reaction on the Fe ₃ O ₄ (111) Reconstructed Surface. Journal of Physical Chemistry C, 2015, 119, 28934-28945. | 3.1 | 44 |
| 23 | A hyperbranched conjugated Schiff base polymer network: a potential negative electrode for flexible thin film batteries. Chemical Communications, 2016, 52, 3000-3002. | 4.1 | 40 |
| 24 | A study on the catalytic hydrogenation of N-ethylcarbazole on the mesoporous Pd/MoO3 catalyst. International Journal of Hydrogen Energy, 2017, 42, 25942-25950. | 7.1 | 39 |
| 25 | 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. | 4.4 | 39 |
| 26 | Effect of extracellular polymer substances on the tetracycline removal during coagulation process. Bioresource Technology, 2020, 309, 123316. | 9.6 | 39 |
| 27 | Marine redox stratification during the early <scp>C</scp> ambrian (ca. 529â€509 Ma) and its control on the development of organicâ€rich shales in <scp>Y</scp> angtze <scp>P</scp> latform. Geochemistry, Geophysics, Geosystems, 2017, 18, 2354-2369. | 2.5 | 34 |
| 28 | Effective coating of crosslinked polyethyleneimine on elastic spongy monolith for highly efficient batch and continuous flow adsorption of Pb(II) and acidic red 18. Chemical Engineering Journal, 2020, 391, 123610. | 12.7 | 34 |
| 29 | Cu Nanoparticles Supported on Oxygen-Rich Boron Nitride for the Reduction of 4-Nitrophenol. ACS Applied Nano Materials, 2018, 1, 6692-6700. | 5.0 | 33 |
| 30 | N/P Codoped Porous Carbon-Coated Graphene Nanohybrid as a High-Performance Electrode for Supercapacitors. ACS Applied Nano Materials, 2018, 1, 6742-6751. | 5.0 | 33 |
| 31 | Hydrous titania nanosheets constructed hierarchical hollow microspheres as a highly efficient dual-use decontaminant for elimination of heavy metal ions and organic pollutants. Chemical Engineering Journal, 2020, 381, 122638. | 12.7 | 33 |
| 32 | Instability of Zinc Hexacyanoferrate Electrode in an Aqueous Environment: Redoxâ€Induced Phase Transition, Compound Dissolution, and Inhibition. ChemElectroChem, 2016, 3, 798-804. | 3.4 | 32 |
| 33 | Partial-Redox-Promoted Mn Cycling of Mn(II)-Doped Heterogeneous Catalyst for Efficient H ₂ O ₂ -Mediated Oxidation. ACS Applied Materials & Samp; Interfaces, 2017, 9, 371-380. | 8.0 | 31 |
| 34 | 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. | 2.6 | 30 |
| 35 | A first principles study of water dissociation on small copper clusters. Physical Chemistry Chemical Physics, 2010, 12, 9845. | 2.8 | 28 |
| 36 | Density functional theory study on the full ALD process of silicon nitride thin film deposition via BDEAS or BTBAS and NH ₃ . Physical Chemistry Chemical Physics, 2014, 16, 18501. | 2.8 | 28 |

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| 37 | Carboxyl-functionalized lotus seedpod: A highly efficient and reusable agricultural waste-based adsorbent for removal of toxic Pb2+ ions from aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 568, 391-401. | 4.7 | 28 |
| 38 | High-performance lithium/sulfur batteries by decorating CMK-3/S cathodes with DNA. Journal of Materials Chemistry A, 2015, 3, 7241-7247. | 10.3 | 27 |
| 39 | Ultrafine SnO2 aggregates in interior of porous carbon nanotubes as high-performance anode materials of lithium-ion batteries. Materials Today Energy, 2019, 12, 303-310. | 4.7 | 26 |
| 40 | Encapsulating tin oxide nanoparticles into holey carbon nanotubes by melt infiltration for superior lithium and sodium ion storage. Journal of Power Sources, 2020, 449, 227564. | 7.8 | 26 |
| 41 | Composition-engineered LaCoO3-based monolithic catalysts for easily operational and robust peroxymonosulfate activation. Chemical Engineering Journal, 2021, 424, 130574. | 12.7 | 26 |
| 42 | Molecular mechanisms of interaction between enzymes and Maillard reaction products formed from thermal hydrolysis pretreatment of waste activated sludge. Water Research, 2021, 206, 117777. | 11.3 | 26 |
| 43 | First-Principles Study of Hydrogenation of Ethylene on a H _{<i>x</i>} MoO ₃ (010) Surface. Journal of Physical Chemistry C, 2012, 116, 24630-24638. | 3.1 | 25 |
| 44 | Remarkable performance of magnetized chitosan-decorated lignocellulose fiber towards biosorptive removal of acidic azo colorant from aqueous environment. Reactive and Functional Polymers, 2016, 100, 97-106. | 4.1 | 25 |
| 45 | Toward High Activity and Durability: An Oxygen-Rich Boron Nitride-Supported Au Nanoparticles for 4-Nitrophenol Hydrogenation. Journal of Physical Chemistry C, 2019, 123, 10389-10397. | 3.1 | 25 |
| 46 | Facile one-pot synthesis of magnetic nitrogen-doped porous carbon for high-performance bilirubin removal from BSA-rich solution. RSC Advances, 2017, 7, 2081-2091. | 3.6 | 24 |
| 47 | Synthesis of MnSiO3 decorated hollow mesoporous silica spheres and its promising application in environmental remediation. Microporous and Mesoporous Materials, 2017, 241, 409-417. | 4.4 | 23 |
| 48 | Postsynthetic incorporation of catalytically inert Al into Co3O4 for peroxymonosulfate activation and insight into the boosted catalytic performance. Chemical Engineering Journal, 2021, 426, 131292. | 12.7 | 22 |
| 49 | Influence of Charge on the Reactivity of Supported Heterogeneous Transition Metal Catalysts. ACS Catalysis, 2015, 5, 4592-4597. | 11.2 | 21 |
| 50 | Simple and Controllable Synthesis of High-Quality MnTiO3 Nanodiscs and Their Application as A Highly Efficient Catalyst for H2O2-Mediated Oxidative Degradation. ACS Applied Nano Materials, 2018, 1, 2727-2738. | 5.0 | 21 |
| 51 | Unique electron reservoir properties of manganese in Mn(II)-doped CeO2 for reversible electron transfer and enhanced Fenton-like catalytic performance. Applied Surface Science, 2020, 502, 144295. | 6.1 | 20 |
| 52 | On the Mechanisms of Carbon Formation Reaction on Ni(111) Surface. Journal of Physical Chemistry C, 2012, 116, 16522-16531. | 3.1 | 19 |
| 53 | Utilizing cobalt-doped materials as heterogeneous catalysts to activate peroxymonosulfate for organic pollutant degradation: a critical review. Environmental Science: Water Research and Technology, 0, , . | 2.4 | 19 |
| 54 | 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. Chemical Engineering Journal, 2018, 346, 458-465. | 12.7 | 17 |

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| 55 | lonic liquid-grafted probe for selective detection and individual identification of different metal ions in 100% aqueous solutions. Sensors and Actuators B: Chemical, 2018, 259, 411-419. | 7.8 | 17 |
| 56 | Density Function Theory Study of Copper Agglomeration on the WN(001) Surface. Journal of Physical Chemistry C, 2007, 111, 9403-9406. | 3.1 | 16 |
| 57 | Firstâ€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. | 13.8 | 16 |
| 58 | Design of efficient mono-aminosilane precursors for atomic layer deposition of SiO ₂ thin films. RSC Advances, 2017, 7, 22672-22678. | 3.6 | 16 |
| 59 | Transition-Metal Ion-Doped Flower-Like Titania Nanospheres as Nonlight-Driven Catalysts for Organic Dye Degradation with Enhanced Performances. ACS Omega, 2018, 3, 17724-17731. | 3.5 | 16 |
| 60 | Significant enhancement of photo-Fenton degradation of ofloxacin over Fe-Dis@Sep due to highly dispersed FeC6 with electron deficiency. Science of the Total Environment, 2020, 723, 138144. | 8.0 | 16 |
| 61 | Constructing novel hyper-crosslinked conjugated polymers through molecular expansion for enhanced gas adsorption performance. Journal of Hazardous Materials, 2022, 426, 127850. | 12.4 | 16 |
| 62 | Doping phosphorus into Co3O4: A new promising pathway to boost the catalytic activity for peroxymonosulfate activation. Applied Surface Science, 2022, 574, 151632. | 6.1 | 15 |
| 63 | On the relative stability of cobalt―and nickelâ€based amidinate complexes against β―migration. International Journal of Quantum Chemistry, 2009, 109, 756-763. | 2.0 | 14 |
| 64 | The roles of active species in photo-decomposition of organic compounds by microwave powered electrodeless discharge lamps. Journal of Environmental Sciences, 2015, 33, 60-68. | 6.1 | 14 |
| 65 | A first-principles investigation of the influence of polyanionic boron doping on the stability and electrochemical behavior of Na3V2(PO4)3. Journal of Molecular Modeling, 2019, 25, 96. | 1.8 | 14 |
| 66 | A single molecular sensor for selective and differential colorimetric/ratiometric detection of Cu2+ and Pd2+ in 100% aqueous solution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 237, 118365. | 3.9 | 14 |
| 67 | Ab Initio Molecular Dynamics Simulation on the Aggregation of a Cu Monolayer on a WN(001) Surface. Journal of Physical Chemistry C, 2008, 112, 9798-9802. | 3.1 | 13 |
| 68 | First-Principles Study of a Full Cycle of Atomic Layer Deposition of SiO ₂ Thin Films with Di(<i>sec</i> -butylamino)silane and Ozone. Journal of Physical Chemistry C, 0, , 130911145338002. | 3.1 | 13 |
| 69 | Palladium nanoparticles uniformly and firmly supported on hierarchical flower-like TiO2 nanospheres as a highly active and reusable catalyst for detoxification of Cr(VI)-contaminated water. Applied Nanoscience (Switzerland), 2020, 10, 359-369. | 3.1 | 13 |
| 70 | A single polymer chemosensor for differential determination of Hg2+ and Cu2+ in pure aqueous media without mutual interference. Materials Today Communications, 2019, 19, 148-156. | 1.9 | 11 |
| 71 | Computational Criteria for Evaluating Polysulfide Cohesion, Solvation, and Stabilization: Approach for Screening Effective Anchoring Substrates. Journal of Physical Chemistry C, 2017, 121, 308-314. | 3.1 | 10 |
| 72 | 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. | 2.2 | 10 |

| # | ARTICLE IF | CITATIONS |
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| | Chemisorption of small fullerenes <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/iviath/iviathiviL"><mml:mrow><mml:msub>C<mml:mi>n</mml:mi></mml:msub></mml:mrow></mml:math> | |
| 73 | display= inline > <mml:mrow><mml:msub>C<mml:mi>n</mml:mi></mml:msub><td>row></td></mml:mrow> | row> |
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