

# Lei Bai

## List of Publications by Year in descending order

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papers

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all docs

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docs citations

45  
times ranked

1214  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inclusion complexation, encapsulation interaction and inclusion number in cyclodextrin chemistry. Coordination Chemistry Reviews, 2009, 253, 1276-1284.	18.8	157
2	Effects of $\beta$ -cyclodextrin introduction to zirconia supported-cobalt oxide catalysts: From molecule-ion associations to complete oxidation of formaldehyde. Applied Catalysis B: Environmental, 2013, 138-139, 381-390.	20.2	82
3	Electrochemical determination of dopamine and uric acid using a glassy carbon electrode modified with a composite consisting of a Co(II)-based metalorganic framework (ZIF-67) and graphene oxide. Mikrochimica Acta, 2018, 185, 486.	5.0	77
4	A Comparative Study on the Binding Behaviors of $\beta$ -Cyclodextrin and Its Two Derivatives to Four Fanlike Organic Guests. Journal of Organic Chemistry, 2008, 73, 8305-8316.	3.2	48
5	Cyclodextrin-cobalt (II) molecule-ion pairs as precursors to active Co <sub>3</sub> O <sub>4</sub> /ZrO <sub>2</sub> catalysts for the complete oxidation of formaldehyde: Influence of the cobalt source. Journal of Catalysis, 2016, 341, 191-204.	6.2	46
6	Molecule-Ion Interaction and Its Effect on Electrostatic Interaction in the System of Copper Chloride and $\beta$ -Cyclodextrin. Inorganic Chemistry, 2011, 50, 1682-1688.	4.0	39
7	Cyclodextrins as growth controlling agents for enhancing the catalytic activity of PVP-stabilized Ru(O) nanoparticles. Chemical Communications, 2012, 48, 3451.	4.1	35
8	Remarkable enhancement of photocatalytic performance via constructing a novel Z-scheme KNbO <sub>3</sub> /Bi <sub>2</sub> O <sub>3</sub> hybrid material. Materials Research Bulletin, 2017, 94, 352-360.	5.2	35
9	Synthesis of PtRu/Ru heterostructure for efficient methanol electrooxidation: The role of extra Ru. Applied Surface Science, 2018, 433, 279-284.	6.1	28
10	Striking Structural Transformation from Cyclic Oligosaccharide to Aromatic Series by Means of the Effect of Lithium Carbonate Based on Gas Chromatography Coupled to Time-of-Flight Mass Spectrometry. Journal of Physical Chemistry B, 2009, 113, 9035-9040.	2.6	26
11	Old Drugs, New Tricks: The Effect of Molecule-Ion Interactions on the Precipitation-Dissolution Equilibrium of Lithium Carbonate in Aqueous Solution and on the Chiral Recognition of Cyclodextrins to $\alpha$ -, $\beta$ -Tryptophan. Journal of Physical Chemistry B, 2009, 113, 11724-11731.	2.6	24
12	Cyclodextrin-Assisted Synthesis of Pd/Co/C Nanopolyhedra by ZIF-67 as a Highly Acid Tolerant Catalyst for Hexavalent Chromium Reduction. Inorganic Chemistry, 2019, 58, 8884-8889.	4.0	24
13	Synthesis of S co-doped TiO <sub>2</sub> microcrystal with an isobandgap characteristic and its photocatalytic activity under visible light. Catalysis Science and Technology, 2018, 8, 4108-4121.	4.1	22
14	Hydroxypropyl- $\beta$ -cyclodextrin as a versatile additive for the formation of metastable tetragonal zirconia exhibiting high thermal stability. CrystEngComm, 2013, 15, 2076-2083.	2.6	20
15	Design of Ag-decorated ZnO concave nanocubes using ZIF-8 with dual functional catalytic ability for decoloring dyes. CrystEngComm, 2018, 20, 2980-2988.	2.6	20
16	Oxidative degradation of Rhodamine B by Ag@CuO nanocomposite activated persulfate. Synthetic Metals, 2020, 267, 116479.	3.9	20
17	Enhanced photodegradation ability of solvothermally synthesized metallic copper coated ZnO microrods. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 548, 19-26.	4.7	18
18	Thermal degradation comparison of polypropylene glycol and its complex with $\beta$ -cyclodextrin. Polymer Degradation and Stability, 2010, 95, 508-515.	5.8	17

#	ARTICLE	IF	CITATIONS
19	Wet chemical synthesis of CdS/ZnO nanoparticle/nanorod hetero-structure for enhanced visible light disposal of Cr(VI) and methylene blue. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 607, 125489.	4.7	16
20	One-pot synthesis of Ag nanoparticles/ZnO nanorods heterostructures for organic dyes decoloring. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 103, 118-125.	5.3	15
21	Functional significance of molecule- $\beta$ -cyclodextrin interactions between a series of inorganic salts and $\beta$ -cyclodextrin. <i>Supramolecular Chemistry</i> , 2011, 23, 447-454.	1.2	13
22	Cubic-like PtCuRu Nanocrystals with High Activity and Stability for Methanol Electro-oxidation. <i>Langmuir</i> , 2020, 36, 7602-7608.	3.5	13
23	Low amount of Au nanoparticles deposited ZnO nanorods heterojunction photocatalysts for efficient degradation of p-nitrophenol. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 94, 468-476.	2.4	12
24	Theoretical and Experimental Studies of the Inclusion Phenomena of $\beta$ -Cyclodextrin with Organic Amines. <i>Chinese Journal of Chemistry</i> , 2008, 26, 1702-1708.	4.9	10
25	Facile synthesis of litchi shaped cuprous oxide and its application in the aerobic oxidative synthesis of imines. <i>RSC Advances</i> , 2015, 5, 10341-10345.	3.6	10
26	The surfactant-free synthesis of hollow CuS nanospheres via clean $\text{Cu}_2\text{O}$ templates and their catalytic oxidation of dye molecules with $\text{H}_2\text{O}_2$ . <i>RSC Advances</i> , 2016, 6, 83885-83889.	3.6	10
27	Preparation and Spectroscopic Study of Different Stoichiometric Solid Supramolecular Inclusion Complexes of $\beta$ -Cyclodextrin with Short Chain Aliphatic Amines. <i>Chinese Journal of Chemical Physics</i> , 2008, 21, 174-180.	1.3	9
28	ZnO- $\text{Co}_3\text{O}_4/\text{N}^{\text{C}}$ Cage Derived from the Hollow Zn/Co ZIF for Enhanced Degradation of Bisphenol A with Persulfate. <i>Inorganic Chemistry</i> , 2021, 60, 13041-13050.	4.0	9
29	Rapid and facile CuCl assistant synthesis of PtCu <sub>3</sub> nanoframes as efficient catalysts for electrooxidation of methanol. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	8
30	Synthesis of C <sub>3</sub> N <sub>4</sub> -decorated ZnO and Ag/ZnO nanoparticles via calcination of ZIF-8 and melamine for photocatalytic removal of methyl orange. <i>Chemical Papers</i> , 2019, 73, 883-889.	2.2	8
31	Nest-like Co <sub>3</sub> O <sub>4</sub> and PdO/Co <sub>3</sub> O <sub>4</sub> synthesized via metal organic framework with cyclodextrin for catalytic removal of Bisphenol A by persulfate. <i>Separation and Purification Technology</i> , 2021, 255, 117718.	7.9	8
32	Comparison of the structure and methanol electrooxidation ability from irregular PtNi nanocrystals to PtNiRu nanodendrites. <i>CrystEngComm</i> , 2020, 22, 1442-1447.	2.6	8
33	Flower-like RuCu nanodendrites as catalysts for hydrogenation of p-nitrophenol with $\beta$ -cyclodextrin as promoters. <i>Dalton Transactions</i> , 2016, 45, 4712-4715.	3.3	7
34	Solvent polarity resulted in different structures and photocatalytic abilities of Ag/ZnO composites. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 93, 695-702.	2.4	6
35	In situ synthesis of CdS/ZnS composite nanoparticles from ZIF-8 for visible light disposal of Cr(VI). <i>Journal of Sol-Gel Science and Technology</i> , 2021, 99, 211-219.	2.4	4
36	Tunable synthesis of cage-like Co <sub>3</sub> O <sub>4</sub> /N $^{\text{C}}$ composite and nest-like Co <sub>3</sub> O <sub>4</sub> for oxidative degradation of Bisphenol A. <i>Journal of Solid State Chemistry</i> , 2021, 304, 122550.	2.9	4

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37	Spectral Differences of the Molecule-ion Adducts of $\beta$ -Cyclodextrin and Lithium Carbonate. Chinese Journal of Chemical Physics, 2010, 23, 117-124.	1.3	3
38	Application of Molecule-Ion Interactions Between Cyclodextrins and Ions in Inorganic Nanochemistry. Current Organic Chemistry, 2011, 15, 862-868.	1.6	3
39	Green synthesis of Ag/ZnO microplates by doping Ag ions on basic zinc carbonate for fast photocatalytic degradation of dyes. Environmental Technology (United Kingdom), 2020, 41, 3584-3590.	2.2	3
40	Engineering a Novel AgMn <sub>2</sub> O <sub>4</sub> @Na <sub>0.55</sub> Mn <sub>2</sub> O <sub>4</sub> Nanosheet toward High-Performance Electrochemical Capacitors. Nanomaterials, 2022, 12, 1538.	4.1	3
41	Transformation of Co(OH) <sub>2</sub> /ZnO to Co <sub>3</sub> O <sub>4</sub> @ZnO/N-C composite via MOFs for enhanced Bisphenol A degradation. Journal of Sol-Gel Science and Technology, 2022, 103, 258-266.	2.4	2
42	Co/ZnO/N-C composites obtained by ZIF derived from Co-Zn oxides as highly efficient catalyst for reduction of p-nitrophenol. Journal of Sol-Gel Science and Technology, 2021, 99, 101-108.	2.4	1
43	Facile synthesis of porous PtRu colloid for enhanced methanol and ethanol electrooxidation. Journal of Sol-Gel Science and Technology, 2022, 103, 118-124.	2.4	1
44	Effect of ionic radius on doped style of silver and copper/zinc oxide nanorods for photodegradation of methylene blue. Environmental Technology (United Kingdom), 2021, , 1-9.	2.2	0
45	From atacamite to Cu(II)-benzenedicarboxylate for enhanced adsorption of methyl blue. Micro and Nano Letters, 2019, 14, 556-559.	1.3	0