

# Tao Luo

## List of Publications by Year in descending order

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62  
papers

3,944  
citations

109321

35  
h-index

128289

60  
g-index

62  
all docs

62  
docs citations

62  
times ranked

5869  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid photocatalytic reduction of Cr(VI) with high concentration in wastewater by In <sub>2</sub> S <sub>3</sub> -ZnIn <sub>2</sub> S <sub>4</sub> heterostructure hierarchical microtubes under visible light. <i>Journal of Solid State Chemistry</i> , 2022, 306, 122721.	2.9	16
2	Pumice as Biological Carriers Improve Impact Load Resistance of UASB Reactors During the Treatment of Raw Incineration Leachates. <i>Polish Journal of Environmental Studies</i> , 2022, 31, 1975-1983.	1.2	1
3	Titanium-oxo-clusters precursors for preparation of In <sub>2</sub> S <sub>3</sub> /TiO <sub>2</sub> heterostructure and its photocatalytic degradation of tetracycline in water. <i>Journal of Solid State Chemistry</i> , 2021, 293, 121791.	2.9	17
4	Zr-Based MOFs as new photocatalysts for the rapid reduction of Cr(VI) in water. <i>New Journal of Chemistry</i> , 2020, 44, 7218-7225.	2.8	31
5	The detection of ethylene using porous ZnO nanosheets: utility in the determination of fruit ripeness. <i>New Journal of Chemistry</i> , 2019, 43, 3619-3624.	2.8	28
6	A new adsorbent of a Ce ion-implanted metal-organic framework (MIL-96) with high-efficiency Ce utilization for removing fluoride from water. <i>Dalton Transactions</i> , 2017, 46, 1996-2006.	3.3	38
7	NMR studies of the interactions between AMB-1 Mms6 protein and magnetosome Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2888-2895.	5.8	12
8	Wide pH range for fluoride removal from water by MHS-MgO/MgCO <sub>3</sub> adsorbent: Kinetic, thermodynamic and mechanism studies. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 194-202.	9.4	62
9	Porous 2-line ferrihydrite/bayerite composites (LFBC): Fluoride removal performance and mechanism. <i>Chemical Engineering Journal</i> , 2015, 268, 325-336.	12.7	62
10	Controlled synthesis of natroalunite microtubes and spheres with excellent fluoride removal performance. <i>Chemical Engineering Journal</i> , 2015, 271, 240-251.	12.7	42
11	Efficient removal of fluoride by hierarchical MgO microspheres: Performance and mechanism study. <i>Applied Surface Science</i> , 2015, 357, 1080-1088.	6.1	60
12	A facile precipitation synthesis of mesoporous 2-line ferrihydrite with good fluoride removal properties. <i>RSC Advances</i> , 2015, 5, 84389-84397.	3.6	36
13	Enhanced adsorption of cadmium ions by 3D sulfonated reduced graphene oxide. <i>Chemical Engineering Journal</i> , 2015, 262, 1292-1302.	12.7	150
14	Fluoride removal mechanism of bayerite/boehmite nanocomposites: Roles of the surface hydroxyl groups and the nitrate anions. <i>Journal of Colloid and Interface Science</i> , 2015, 440, 60-67.	9.4	46
15	Specific size-matching strategy for electrochemical selective and sensitive detection of mercury(II) based on a three-dimensional-gap-net in a Au-thiol coordination polymer. <i>Electrochemistry Communications</i> , 2014, 42, 26-29.	4.7	8
16	Facile Synthesis of Urchin-like NiCo <sub>2</sub> O <sub>4</sub> Hollow Microspheres with Enhanced Electrochemical Properties in Energy and Environmentally Related Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 3689-3695.	8.0	204
17	Al-1,3,5-benzenetricarboxylic metal-organic frameworks: A promising adsorbent for defluoridation of water with pH insensitivity and low aluminum residual. <i>Chemical Engineering Journal</i> , 2014, 252, 220-229.	12.7	103
18	Sub-20 nm-Fe <sub>3</sub> O <sub>4</sub> square and circular nanoplates: synthesis and facet-dependent magnetic and electrochemical properties. <i>Chemical Communications</i> , 2014, 50, 15952-15955.	4.1	36

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19	Necklace-like mesoporous MgO/TiO <sub>2</sub> heterojunction structures with excellent capability for water treatment. Dalton Transactions, 2014, 43, 2348-2351.	3.3	27
20	Study on the microheterogeneity of aqueous alcohol solutions: formation mechanism of inner pores of ZnO nanostructures. RSC Advances, 2014, 4, 11124.	3.6	0
21	Controllable synthesis of Mg-Fe layered double hydroxide nanoplates with specific Mg/Fe ratios and their effect on adsorption of As(V) from water. New Journal of Chemistry, 2014, 38, 4427.	2.8	28
22	Synthesis of metal-organic-framework related core-shell heterostructures and their application to ion enrichment in aqueous conditions. Chemical Communications, 2014, 50, 7686.	4.1	22
23	Millimeter-sized Mg-Al-LDH nanoflake impregnated magnetic alginate beads (LDH-n-MABs): a novel bio-based sorbent for the removal of fluoride in water. Journal of Materials Chemistry A, 2014, 2, 2119-2128.	10.3	102
24	Facile synthesis of porous single crystalline ZnO nanoplates and their application in photocatalytic reduction of Cr(VI) in the presence of phenol. Journal of Hazardous Materials, 2014, 276, 400-407.	12.4	96
25	An easy method to synthesize graphene oxide-FeOOH composites and their potential application in water purification. Materials Research Bulletin, 2013, 48, 2180-2185.	5.2	51
26	Î <sup>3</sup> -Fe <sub>2</sub> O <sub>3</sub> Nanoparticles Encapsulated Millimeter-Sized Magnetic Chitosan Beads for Removal of Cr(VI) from Water: Thermodynamics, Kinetics, Regeneration, and Uptake Mechanisms. Journal of Chemical & Engineering Data, 2013, 58, 3142-3149.	1.9	64
27	Facet-dependent electrochemical properties of Co <sub>3</sub> O <sub>4</sub> nanocrystals toward heavy metal ions. Scientific Reports, 2013, 3, 2886.	3.3	105
28	Porous TiO <sub>2</sub> nanowires derived from nanotubes: Synthesis, characterization and their enhanced photocatalytic properties. Microporous and Mesoporous Materials, 2013, 181, 146-153.	4.4	19
29	Synthesis of monodispersed Î±-FeOOH nanorods with a high content of surface hydroxyl groups and enhanced ion-exchange properties towards As(V). RSC Advances, 2013, 3, 15805.	3.6	29
30	Surfactant-free preparation of nickel carbonate hydroxide in aqueous solution and its toxic ion-exchange properties. New Journal of Chemistry, 2013, 37, 534-539.	2.8	30
31	Facile one-pot synthesis of lepidocrocite (Î±-FeOOH) nanoflakes for water treatment. New Journal of Chemistry, 2013, 37, 2551.	2.8	42
32	PEG aggregation templated porous ZnO nanostructure: room temperature solution synthesis, pore formation mechanism, and their photoluminescence properties. CrystEngComm, 2013, 15, 3647.	2.6	25
33	Two-step self-assembly of iron oxide into three-dimensional hollow magnetic porous microspheres and their toxic ion adsorption mechanism. Dalton Transactions, 2013, 42, 1921-1928.	3.3	61
34	A facile template free solution approach for the synthesis of dypingite nanowires and subsequent decomposition to nanoporous MgO nanowires with excellent arsenate adsorption properties. RSC Advances, 2013, 3, 5430.	3.6	36
35	Synthesis of Porous Gold Based on Gold-Thiol Coordination Polymer and Its Application in SERS Detection with High Activity and High Reproducibility. Chemistry Letters, 2013, 42, 407-409.	1.3	0
36	Iron and 1,3,5-Benzenetricarboxylic Metal-Organic Coordination Polymers Prepared by Solvothermal Method and Their Application in Efficient As(V) Removal from Aqueous Solutions. Journal of Physical Chemistry C, 2012, 116, 8601-8607.	3.1	287

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37	Novel 3D Hierarchical Cotton-Candy-Like CuO: Surfactant-Free Solvothermal Synthesis and Application in As(III) Removal. ACS Applied Materials & Interfaces, 2012, 4, 1954-1962.	8.0	184
38	Three-dimensional hierarchical flower-like Mg-Al-layered double hydroxides: highly efficient adsorbents for As(v) and Cr(vi) removal. Nanoscale, 2012, 4, 3466.	5.6	175
39	Shape-controlled synthesis of CdCO <sub>3</sub> microcrystals and corresponding nanoporous CdO architectures. RSC Advances, 2012, 2, 10251.	3.6	21
40	Self-assembled, monodispersed, flower-like $\gamma$ -AlOOH hierarchical superstructures for efficient and fast removal of heavy metal ions from water. CrystEngComm, 2012, 14, 3005.	2.6	80
41	Study on the interfacial structures of Tin oxide/multiwalled carbon nanotube heterojunctions. RSC Advances, 2012, 2, 1942.	3.6	6
42	A simple method to synthesize graphene at 633 K by dechlorination of hexachlorobenzene on Cu foils. Carbon, 2012, 50, 306-310.	10.3	29
43	Ultra high adsorption capacity of fried egg jellyfish-like $\gamma$ -AlOOH(Boehmite)@SiO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> porous magnetic microspheres for aqueous Pb(II) removal. Journal of Materials Chemistry, 2011, 21, 16550.	6.7	91
44	Porous Hierarchically Micro-/Nanostructured MgO: Morphology Control and Their Excellent Performance in As(III) and As(V) Removal. Journal of Physical Chemistry C, 2011, 115, 22242-22250.	3.1	142
45	Adsorption of Lead(II) on O <sub>2</sub> -Plasma-Oxidized Multiwalled Carbon Nanotubes: Thermodynamics, Kinetics, and Desorption. ACS Applied Materials & Interfaces, 2011, 3, 2585-2593.	8.0	220
46	Influence of the crystallinity of the iron catalysts on the formation of carbon nanotubes. Materials Research Bulletin, 2011, 46, 884-887.	5.2	4
47	Electronic chip based on self-oriented carbon nanotube microelectrode array to enhance the sensitivity of indoor air pollutants capacitive detection. Sensors and Actuators B: Chemical, 2011, 153, 103-109.	7.8	24
48	p-Hexafluoroisopropanol phenyl covalently functionalized single-walled carbon nanotubes for detection of nerve agents. Carbon, 2010, 48, 1262-1270.	10.3	68
49	A novel coral-like porous SnO <sub>2</sub> hollow architecture: biomimetic swallowing growth mechanism and enhanced photovoltaic property for dye-sensitized solar cell application. Chemical Communications, 2010, 46, 472-474.	4.1	120
50	Novel facile detection of persistent organic pollutants using highly sensitive gas sensor. Talanta, 2010, 82, 409-416.	5.5	5
51	Novel pyrenehexafluoroisopropanol derivative-decorated single-walled carbon nanotubes for detection of nerve agents by strong hydrogen-bonding interaction. Analyst, The, 2010, 135, 368-374.	3.5	98
52	Porous Hierarchical In <sub>2</sub> O <sub>3</sub> Micro-/Nanostructures: Preparation, Formation Mechanism, and Their Application in Gas Sensors for Noxious Volatile Organic Compound Detection. Journal of Physical Chemistry C, 2010, 114, 4887-4894.	3.1	111
53	A novel ammonia sensor based on high density, small diameter polypyrrole nanowire arrays. Sensors and Actuators B: Chemical, 2009, 142, 204-209.	7.8	80
54	Shape- and phase-controlled synthesis of In <sub>2</sub> O <sub>3</sub> with various morphologies and their gas-sensing properties. Sensors and Actuators B: Chemical, 2009, 137, 103-110.	7.8	94

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55	Triethylenetetramine (TETA)-assisted synthesis, dynamic growth mechanism, and photoluminescence properties of radial single-crystalline ZnS nanowire bundles. <i>Journal of Crystal Growth</i> , 2009, 311, 1423-1429.	1.5	21
56	Synthesis of close-packed multi-walled carbon nanotube bundles using Mo as catalyst. <i>Carbon</i> , 2009, 47, 1652-1658.	10.3	31
57	Morphogenesis and Crystallization of ZnS Microspheres by a Soft Template-Assisted Hydrothermal Route: Synthesis, Growth Mechanism, and Oxygen Sensitivity. <i>Chemistry - an Asian Journal</i> , 2009, 4, 174-180.	3.3	17
58	In Situ Growth of Tin Oxide Nanowires, Nanobelts, and Nanodendrites On the Surface of Iron-Doped Tin Oxide/Multiwalled Carbon Nanotube Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20583-20588.	3.1	9
59	Nanomaterial-Assisted Signal Enhancement of Hybridization for DNA Biosensors: A Review. <i>Sensors</i> , 2009, 9, 7343-7364.	3.8	43
60	Novel porous single-crystalline ZnO nanosheets fabricated by annealing ZnS(en) <sub>0.5</sub> (en) Tj ETQq0 0 0 rgBT /Overlock 10 T Nanotechnology, 2009, 20, 125501.	2.6	137
61	Preparation of Porous Tin Oxide Nanotubes Using Carbon Nanotubes as Templates and Their Gas-Sensing Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9581-9587.	3.1	91
62	Novel Single-Crystalline Hierarchical Structured ZnO Nanorods Fabricated via a Wet-Chemical Route: Combined High Gas Sensing Performance with Enhanced Optical Properties. <i>Crystal Growth and Design</i> , 2009, 9, 1716-1722.	3.0	67