Tao Luo

List of Publications by Year in descending order

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	Iron and 1,3,5-Benzenetricarboxylic Metalâ€“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
2	Adsorption of Lead(II) on O₂-Plasma-Oxidized Multiwalled Carbon Nanotubes: Thermodynamics, Kinetics, and Desorption. ACS Applied Materials & Interfaces, 2011, 3, 2585-2593.	8.0	220
3	Facile Synthesis of Urchin-like NiCo₂O₄ Hollow Microspheres with Enhanced Electrochemical Properties in Energy and Environmentally Related Applications. ACS Applied Materials & Interfaces, 2014, 6, 3689-3695.	8.0	204
4	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
5	Three-dimensional hierarchical flower-like Mgâ€“Al-layered double hydroxides: highly efficient adsorbents for As(v) and Cr(vi) removal. Nanoscale, 2012, 4, 3466.	5.6	175
6	Enhanced adsorption of cadmium ions by 3D sulfonated reduced graphene oxide. Chemical Engineering Journal, 2015, 262, 1292-1302.	12.7	150
7	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
8	Novel porous single-crystalline ZnO nanosheets fabricated by annealing ZnS(en)_{0.5}(en =) Tj ETQq0 0 0 rgBT /Overlock 10 T Nanotechnology, 2009, 20, 125501.	2.6	137
9	A novel coral-like porous SnO₂hollow architecture: biomimetic swallowing growth mechanism and enhanced photovoltaic property for dye-sensitized solar cell application. Chemical Communications, 2010, 46, 472-474.	4.1	120
10	Porous Hierarchical In₂O₃ 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
11	Facet-dependent electrochemical properties of Co3O4 nanocrystals toward heavy metal ions. Scientific Reports, 2013, 3, 2886.	3.3	105
12	Al-1,3,5-benzenetricarboxylic metalâ€“organic frameworks: A promising adsorbent for defluoridation of water with pH insensitivity and low aluminum residual. Chemical Engineering Journal, 2014, 252, 220-229.	12.7	103
13	Millimeter-sized Mgâ€“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
14	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
15	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
16	Shape- and phase-controlled synthesis of In2O3 with various morphologies and their gas-sensing properties. Sensors and Actuators B: Chemical, 2009, 137, 103-110.	7.8	94
17	Preparation of Porous Tin Oxide Nanotubes Using Carbon Nanotubes as Templates and Their Gas-Sensing Properties. Journal of Physical Chemistry C, 2009, 113, 9581-9587.	3.1	91
18	Ultra high adsorption capacity of fried egg jellyfish-like Î³-AlOOH(Boehmite)@SiO2/Fe3O4 porous magnetic microspheres for aqueous Pb(II) removal. Journal of Materials Chemistry, 2011, 21, 16550.	6.7	91

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19	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
20	Self-assembled, monodispersed, flower-like Î³-AlOOH hierarchical superstructures for efficient and fast removal of heavy metal ions from water. CrystEngComm, 2012, 14, 3005.	2.6	80
21	p-Hexafluoroisopropanol phenyl covalently functionalized single-walled carbon nanotubes for detection of nerve agents. Carbon, 2010, 48, 1262-1270.	10.3	68
22	Novel Single-Crystalline Hierarchical Structured ZnO Nanorods Fabricated via a Wet-Chemical Route: Combined High Gas Sensing Performance with Enhanced Optical Properties. Crystal Growth and Design, 2009, 9, 1716-1722.	3.0	67
23	Î³-Fe₂O₃ 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
24	Wide pH range for fluoride removal from water by MHS-MgO/MgCO3 adsorbent: Kinetic, thermodynamic and mechanism studies. Journal of Colloid and Interface Science, 2015, 446, 194-202.	9.4	62
25	Porous 2-line ferrihydrite/bayerite composites (LFBC): Fluoride removal performance and mechanism. Chemical Engineering Journal, 2015, 268, 325-336.	12.7	62
26	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
27	Efficient removal of fluoride by hierarchical MgO microspheres: Performance and mechanism study. Applied Surface Science, 2015, 357, 1080-1088.	6.1	60
28	An easy method to synthesize graphene oxideâ€“FeOOH composites and their potential application in water purification. Materials Research Bulletin, 2013, 48, 2180-2185.	5.2	51
29	Fluoride removal mechanism of bayerite/boehmite nanocomposites: Roles of the surface hydroxyl groups and the nitrate anions. Journal of Colloid and Interface Science, 2015, 440, 60-67.	9.4	46
30	Nanomaterial-Assisted Signal Enhancement of Hybridization for DNA Biosensors: A Review. Sensors, 2009, 9, 7343-7364.	3.8	43
31	Facile one-pot synthesis of lepidocrocite (Î³-FeOOH) nanoflakes for water treatment. New Journal of Chemistry, 2013, 37, 2551.	2.8	42
32	Controlled synthesis of natroalunite microtubes and spheres with excellent fluoride removal performance. Chemical Engineering Journal, 2015, 271, 240-251.	12.7	42
33	A new adsorbent of a Ce ion-implanted metalâ€“organic framework (MIL-96) with high-efficiency Ce utilization for removing fluoride from water. Dalton Transactions, 2017, 46, 1996-2006.	3.3	38
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	Sub-20 nm-Fe₃O₄square and circular nanoplates: synthesis and facet-dependent magnetic and electrochemical properties. Chemical Communications, 2014, 50, 15952-15955.	4.1	36
36	A facile precipitation synthesis of mesoporous 2-line ferrihydrite with good fluoride removal properties. RSC Advances, 2015, 5, 84389-84397.	3.6	36

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37	Synthesis of close-packed multi-walled carbon nanotube bundles using Mo as catalyst. Carbon, 2009, 47, 1652-1658.	10.3	31
38	Zr-Based MOFs as new photocatalysts for the rapid reduction of Cr(<scp>vi</scp>) in water. New Journal of Chemistry, 2020, 44, 7218-7225.	2.8	31
39	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
40	A simple method to synthesize graphene at 633 K by dechlorination of hexachlorobenzene on Cu foils. Carbon, 2012, 50, 306-310.	10.3	29
41	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
42	Controllable synthesis of Mgâ€“Fe layered double hydroxide nanoplates with specific Mg/Fe ratios and their effect on adsorption of As(<scp>v</scp>) from water. New Journal of Chemistry, 2014, 38, 4427.	2.8	28
43	The detection of ethylene using porous ZnO nanosheets: utility in the determination of fruit ripeness. New Journal of Chemistry, 2019, 43, 3619-3624.	2.8	28
44	Necklace-like mesoporous MgO/TiO₂heterojunction structures with excellent capability for water treatment. Dalton Transactions, 2014, 43, 2348-2351.	3.3	27
45	PEG aggregation templated porous ZnO nanostructure: room temperature solution synthesis, pore formation mechanism, and their photoluminescence properties. CrystEngComm, 2013, 15, 3647.	2.6	25
46	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
47	Synthesis of metalâ€“organic-framework related coreâ€“shell heterostructures and their application to ion enrichment in aqueous conditions. Chemical Communications, 2014, 50, 7686.	4.1	22
48	Triethylenetetramine (TETA)-assisted synthesis, dynamic growth mechanism, and photoluminescence properties of radial single-crystalline ZnS nanowire bundles. Journal of Crystal Growth, 2009, 311, 1423-1429.	1.5	21
49	Shape-controlled synthesis of CdCO3 microcrystals and corresponding nanoporous CdO architectures. RSC Advances, 2012, 2, 10251.	3.6	21
50	Porous TiO2 nanowires derived from nanotubes: Synthesis, characterzation and their enhanced photocatalytic properties. Microporous and Mesoporous Materials, 2013, 181, 146-153.	4.4	19
51	Morphogenesis and Crystallization of ZnS Microspheres by a Soft Templateâ€Assisted Hydrothermal Route: Synthesis, Growth Mechanism, and Oxygen Sensitivity. Chemistry - an Asian Journal, 2009, 4, 174-180.	3.3	17
52	Titanium-oxo-clusters precursors for preparation of In2S3/TiO2 heterostructure and its photocatalytic degradation of tetracycline in water. Journal of Solid State Chemistry, 2021, 293, 121791.	2.9	17
53	Rapid photocatalytic reduction of Cr(VI) with high concentration in wastewater by In2S3-ZnIn2S4 heterostructure hierarchical microtubes under visible light. Journal of Solid State Chemistry, 2022, 306, 122721.	2.9	16
54	NMR studies of the interactions between AMB-1 Mms6 protein and magnetosome Fe3O4 nanoparticles. Journal of Materials Chemistry B, 2017, 5, 2888-2895.	5.8	12

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55	In Situ Growth of Tin Oxide Nanowires, Nanobelts, and Nanodendrites On the Surface of Iron-Doped Tin Oxide/Multiwalled Carbon Nanotube Nanocomposites. Journal of Physical Chemistry C, 2009, 113, 20583-20588.	3.1	9
56	Specific size-matching strategy for electrochemical selective and sensitive detection of mercury(II) based on a three-dimensional-gap-net in a Auâ€“thiol coordination polymer. Electrochemistry Communications, 2014, 42, 26-29.	4.7	8
57	Study on the interfacial structures of Tin oxide/multiwalled carbon nanotube heterojunctions. RSC Advances, 2012, 2, 1942.	3.6	6
58	Novel facile detection of persistent organic pollutants using highly sensitive gas sensor. Talanta, 2010, 82, 409-416.	5.5	5
59	Influence of the crystallinity of the iron catalysts on the formation of carbon nanotubes. Materials Research Bulletin, 2011, 46, 884-887.	5.2	4
60	Pumice as Biological Carriers Improve Impact Load Resistance of UASB Reactors During the Treatment of Raw Incineration Leachates. Polish Journal of Environmental Studies, 2022, 31, 1975-1983.	1.2	1
61	Synthesis of Porous Gold Based on Goldâ€“Thiol Coordination Polymer and Its Application in SERS Detection with High Activity and High Reproducibility. Chemistry Letters, 2013, 42, 407-409.	1.3	0
62	Study on the microheterogeneity of aqueous alcohol solutions: formation mechanism of inner pores of ZnO nanostructures. RSC Advances, 2014, 4, 11124.	3.6	0