Zhong Liu

List of Publications by Year
in descending order

54 papers	1,526 citations	236612 25 h-index	344852 36 g-index
54 all docs	54 docs citations	54 times ranked	1700 citing authors

#	Article	IF	Citations
1	Chemical conversion based on the crystal facet effect of transition metal oxides and construction methods for sharp-faced nanocrystals. Chemical Communications, 2022, 58, 908-924.	2.2	9
2	Synthesis of granulated Li/Al-LDHs adsorbent and application for recovery of Li from synthetic and real salt lake brines. Hydrometallurgy, 2022, 209, 105828.	1.8	18
3	Improve the durability of lithium adsorbent Li/Al-LDHs by Fe3+ substitution and nanocomposite of FeOOH. Minerals Engineering, 2022, 185, 107717.	1.8	11
4	Manganese-based spinel adsorbents for lithium recovery from aqueous solutions by electrochemical technique. Journal of Industrial and Engineering Chemistry, 2022, 114, 142-150.	2.9	11
5	Surface trace doping of Na enhancing structure stability and adsorption properties of Li1.6Mn1.6O4 for Li+ recovery. Separation and Purification Technology, 2021, 256, 117583.	3.9	15
6	The performance and mechanism of recovering lithium on H4Ti5O12 adsorbents influenced by (1 1 0) and (1 1 1) facets exposed. Chemical Engineering Journal, 2021, 414, 128729.	6.6	35
7	Enabling highly structure stability and adsorption performances of Li1.6Mn1.6O4 by Al-gradient surface doping. Separation and Purification Technology, 2021, 264, 118433.	3.9	22
8	Extraction of lithium from salt lake brines by granulated adsorbents. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127256.	2.3	29
9	Al-doped H₂TiO₃ ion sieve with enhanced Li⁺ adsorption performance. RSC Advances, 2021, 11, 34988-34995.	1.7	10
10	A Durable PVDF/PFOTES-SiO2 Superhydrophobic Coating on AZ31B Mg Alloy with Enhanced Abrasion Resistance Performance and Anti-Corrosion Properties. Applied Sciences (Switzerland), 2021, 11, 11172.	1.3	6
11	High Coverage CO Adsorption on Fe6O6 Cluster Using GGAâ€‰+â€‰U. Journal of Cluster Science, 2020, 31, 591-600.	1.7	5
12	Highly efficient oxidative desulfurization of dibenzothiophene using Ni modified MoO3 catalyst. Applied Catalysis A: General, 2020, 589, 117308.	2.2	73
13	Hydrothermal synthesis and adsorption behavior of H₄Ti₅O₁₂ nanorods along [100] as lithium ion-sieves. RSC Advances, 2020, 10, 35153-35163.	1.7	8
14	The adsorption behavior of lithium on spinel titanium oxide nanosheets with exposed (1â”14) high-index facets. Dalton Transactions, 2020, 49, 14180-14190.	1.6	12
15	K-gradient doping to stabilize the spinel structure of Li_{1.6}Mn_{1.6}O₄ for Li⁺ recovery. Dalton Transactions, 2020, 49, 10939-10948.	1.6	27
16	Trace doping by fluoride and sulfur to enhance adsorption capacity of manganese oxides for lithium recovery. Materials and Design, 2020, 194, 108867.	3.3	25
17	Enhancing the Li+ adsorption and anti-dissolution properties of Li1.6Mn1.6O4 with Fe, Co doped. Hydrometallurgy, 2020, 193, 105291.	1.8	43
18	Removal of Fluoride by Graphene Oxide/Alumina Nanocomposite: Adsorbent Preparation, Characterization, Adsorption Performance and Mechanisms. ChemistrySelect, 2020, 5, 1818-1828.	0.7	23

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19	Fe containing MoO₃ nanowires grown along the [110] direction and their fast selective adsorption of quasi-phenothiazine dyes. CrystEngComm, 2019, 21, 5106-5114.	1.3	9
20	Synthesis of H₄Mn₅O₁₂ Nanotubes Lithium Ion Sieve and Its Adsorption Properties for Li⁺ from Aqueous Solution. ChemistrySelect, 2019, 4, 9562-9569.	0.7	11
21	Highly Lithium Adsorption Capacities of H_{1.6}Mn_{1.6}O₄ Ionâ€Sieve by Ordered Array Structure. ChemistrySelect, 2019, 4, 10157-10163.	0.7	26
22	Dendritic fibrous nano-particles (DFNPs): rising stars of mesoporous materials. Journal of Materials Chemistry A, 2019, 7, 5111-5152.	5.2	103
23	Bubble-template synthesis of WO₃Â·0.5H₂O hollow spheres as a high-activity catalyst for catalytic oxidation of benzyl alcohol to benzaldehyde. CrystEngComm, 2019, 21, 1026-1033.	1.3	15
24	(001) plan manipulation of Î±-Fe2O3 nanostructures for enhanced electrochemical Cr(VI) sensing. Journal of Electroanalytical Chemistry, 2019, 841, 142-147.	1.9	56
25	Experimental and theoretical investigations of Cs+ adsorption on crown ethers modified magnetic adsorbent. Journal of Hazardous Materials, 2019, 371, 712-720.	6.5	66
26	Influence of the pH in Reactions of Boric Acid/Borax with Simple Hydroxyl Compounds: Investigation by Raman Spectroscopy and DFT Calculations. ChemistrySelect, 2019, 4, 14132-14139.	0.7	8
27	A solid-state electrochemical sensing platform based on a supramolecular hydrogel. Sensors and Actuators B: Chemical, 2018, 262, 326-333.	4.0	41
28	A novel method for removal of boron from aqueous solution using sodium dodecyl benzene sulfonate and d-mannitol as the collector. Desalination, 2018, 431, 47-55.	4.0	14
29	A rapid electrochemical sensor fabricated using silver ions and graphene oxide. Ionics, 2018, 24, 2821-2827.	1.2	17
30	A glassy carbon electrode modified with N-doped carbon dots for improved detection of hydrogen peroxide and paracetamol. Mikrochimica Acta, 2018, 185, 87.	2.5	80
31	CO adsorption, dissociation and coupling formation mechanisms on Fe2C(001) surface. Applied Surface Science, 2018, 434, 464-472.	3.1	29
32	Synthesis of FeAPO-5 molecular sieves with high iron contents via improved ionothermal method and their catalytic performances in phenol hydroxylation. Journal of Porous Materials, 2018, 25, 1007-1016.	1.3	13
33	Design and facile one-step synthesis of FeWO4/Fe2O3 di-modified WO3 with super high photocatalytic activity toward degradation of quasi-phenothiazine dyes. Applied Catalysis B: Environmental, 2018, 221, 169-178.	10.8	72
34	Corrosion resistance and wetting properties of silica-based superhydrophobic coatings on AZ31B Mg alloy surfaces. Applied Surface Science, 2018, 453, 1-10.	3.1	72
35	The adsorption behavior and mechanism of Cr(VI) on 3D hierarchical Î±-Fe 2 O 3 structures exposed by (0) Tj ETQq1 1 0.784314 rgBT	6.6	61
36	Multi-Walled Carbon Nanotube-Assisted Electrodeposition of Silver Dendrite Coating as a Catalytic Film. Coatings, 2017, 7, 232.	1.2	18

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37	Controllable synthesis of mesoporous alumina with large surface area for high and fast fluoride removal. Ceramics International, 2016, 42, 15253-15260.	2.3	28
38	Preparation of MnO2â€“Al2O3 adsorbent with large specific surface area for fluoride removal. Particuology, 2016, 27, 66-71.	2.0	13
39	RF magnetron sputtering synthesis of carbon fibers/ZnO coaxial nanocable microelectrode for electrochemical sensing of ascorbic acid. Materials Letters, 2016, 181, 265-267.	1.3	13
40	Preparation of Î±-Fe₂O₃ hollow spheres, nanotubes, nanoplates and nanorings as highly efficient Cr(<scp>vi</scp>) adsorbents. RSC Advances, 2016, 6, 82854-82861.	1.7	30
41	Hydrothermal preparation of reduced graphene oxideâ€“silver nanocomposite using Plectranthus amboinicus leaf extract and its electrochemical performance. Enzyme and Microbial Technology, 2016, 95, 112-117.	1.6	32
42	A multifunctional polymeric nanofilm with robust chemical performances for special wettability. Nanoscale, 2016, 8, 5153-5161.	2.8	16
43	The polymeric nanofilm of triazinedithiolsilane capable of resisting corrosion and serving as an activated interface on a copper surface. RSC Advances, 2016, 6, 6811-6822.	1.7	3
44	Template-free synthesis of mesoporous Î³-alumina with tunable structural properties. Ceramics International, 2016, 42, 4072-4079.	2.3	35
45	Facile Synthesis of (110)â€Planeâ€Exposed Au Microflowers as High Sensitive Hydrogen Peroxide Sensors. European Journal of Inorganic Chemistry, 2015, 2015, 2528-2533.	1.0	2
46	The polymeric nanofilm of triazinedithiolsilane fabricated by self-assembled technique on copper surface. Part 1: Design route and corrosion resistance. Corrosion Science, 2015, 98, 382-390.	3.0	37
47	The role of surface hydrolysis of ferricyanide anions in crystal growth of snowflake-shaped Î±-Fe₂O₃. Chemical Communications, 2015, 51, 9350-9353.	2.2	11
48	The polymeric nanofilm of triazinedithiolsilane fabricated by self-assembled technique on copper surface. Part 2: Characterization of composition and morphology. Applied Surface Science, 2015, 356, 191-202.	3.1	54
49	Magnetic and electrochemical behavior of rhombohedral Î±-Fe2O3 nanoparticles with (1 0 4) dominant facets. Particuology, 2013, 11, 327-333.	2.0	32
50	Hexagonal Î±-Fe2O3 nanorods bound by high-index facets as high-performance electrochemical sensor. Journal of Materials Chemistry A, 2013, 1, 3040.	5.2	36
51	Fast production of Î²-Ni(OH)2 nanostructures with (001) and (100) plane exposure and their electrochemical properties. Journal of Materials Chemistry A, 2013, 1, 5695.	5.2	26
52	Precisely tailoring dendritic Î±-Fe2O3 structures along [101Ì„0] directions. CrystEngComm, 2012, 14, 4074.	1.3	16
53	Morphology and magnetic properties of Î±-Fe2O3 particles prepared by octadecylamine-assisted hydrothermal method. Particuology, 2012, 10, 456-461.	2.0	28
54	Preparation and Properties of Octadecahedral Î±â€Fe₂O₃ Nanoparticles Enclosed by {104} and {112} Facets. European Journal of Inorganic Chemistry, 2012, 2012, 4076-4081.	1.0	21