

Chang-Zhong Liao

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,538
citations

471509

17
h-index

302126

39
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42
all docs

42
docs citations

42
times ranked

2448
citing authors

#	ARTICLE	IF	CITATIONS
1	Is Excess Pb^{2+} Beneficial for Perovskite Solar Cell Performance?. <i>Advanced Energy Materials</i> , 2016, 6, 1502206.	19.5	322
2	Constructing phase boundary in AgNbO_3 antiferroelectrics: pathway simultaneously achieving high energy density and efficiency. <i>Nature Communications</i> , 2020, 11, 4824.	12.8	298
3	Facile synthesis of highly reactive and stable Fe-doped g-C ₃ N ₄ composites for peroxydisulfate activation: A novel nonradical oxidation process. <i>Journal of Hazardous Materials</i> , 2018, 354, 63-71.	12.4	154
4	Copper-promoted circumneutral activation of H ₂ O ₂ by magnetic CuFe_2O_4 spinel nanoparticles: Mechanism, stoichiometric efficiency, and pathway of degrading sulfanilamide. <i>Chemosphere</i> , 2016, 154, 573-582.	8.2	87
5	Activation of Persulfates Using Siderite as a Source of Ferrous Ions: Sulfate Radical Production, Stoichiometric Efficiency, and Implications. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3624-3631.	6.7	67
6	Double-Barrier mechanism for chromium immobilization: A quantitative study of crystallization and leachability. <i>Journal of Hazardous Materials</i> , 2016, 311, 246-253.	12.4	55
7	Detoxification and immobilization of chromite ore processing residue in spinel-based glass-ceramic. <i>Journal of Hazardous Materials</i> , 2017, 321, 449-455.	12.4	51
8	Quantitative X-ray Diffraction (QXRD) analysis for revealing thermal transformations of red mud. <i>Chemosphere</i> , 2015, 131, 171-177.	8.2	47
9	Cu_2O -promoted degradation of sulfamethoxazole by Fe_2O_3 -catalyzed peroxydisulfate under circumneutral conditions: synergistic effect, Cu/Fe ratios, and mechanisms. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1-11.	2.2	39
10	Cadmium Stabilization Efficiency and Leachability by CdAl_4O_7 Monoclinic Structure. <i>Environmental Science & Technology</i> , 2015, 49, 14452-14459.	10.0	37
11	Hydrothermally synthesized Cu_xO as a catalyst for CO oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3627-3632.	10.3	30
12	Cubic and tetragonal ferrite crystal structures for copper ion immobilization in an iron-rich ceramic matrix. <i>RSC Advances</i> , 2016, 6, 28579-28585.	3.6	23
13	Effects of ionic radius on phase evolution in Ln-Al co-doped $\text{Ca}_{1-x}\text{Ln}_x\text{ZrTi}_{2-x}\text{Al}_x\text{O}_7$ (Ln = La, Nd, Gd, Ho.) <i>Tj ETQq1</i> 10,784314,rgBT /O 4.8 23	4.8	23
14	Controlling the Valence State of Cu Dopant in Fe_2O_3 Anodes: Effects on Crystal Structure and the Conversion Reactions with Alkali Ions. <i>Chemistry of Materials</i> , 2019, 31, 1268-1279.	6.7	23
15	Crystal Structures of Al ³⁺ -Nd Codoped Zirconolite Derived from Glass Matrix and Powder Sintering. <i>Inorganic Chemistry</i> , 2015, 54, 7353-7361.	4.0	20
16	Cadmium stabilization via silicates formation: Efficiency, reaction routes and leaching behavior of products. <i>Environmental Pollution</i> , 2018, 239, 571-578.	7.5	20
17	Unraveling the Structure of the Poly(triazine imide)/LiCl Photocatalyst: Cooperation of Facile Syntheses and a Low-Temperature Synchrotron Approach. <i>Inorganic Chemistry</i> , 2019, 58, 15880-15888.	4.0	19
18	Evaluation on the stabilization of Zn/Ni/Cu in spinel forms: Low-cost red mud as an effective precursor. <i>Environmental Pollution</i> , 2019, 249, 144-151.	7.5	18

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19	Highly-efficient and easy separation of ^{51}Cr -Fe ₂ O ₃ selectively adsorbs U(VI) in waters. Environmental Research, 2022, 210, 112917.	7.5	17
20	Highly crystalline lithium chloride-intercalated graphitic carbon nitride hollow nanotubes for effective lead removal. Environmental Science: Nano, 2019, 6, 3324-3335.	4.3	16
21	Combined Quantitative X-ray Diffraction, Scanning Electron Microscopy, and Transmission Electron Microscopy Investigations of Crystal Evolution in CaO-Al ₂ O ₃ -SiO ₂ -TiO ₂ -ZrO ₂ -Nd ₂ O ₃ System. Crystal Growth and Design, 2017, 17, 1079-1087.	3.0	15
22	An alumina stabilized graphene oxide wrapped SnO ₂ hollow sphere LIB anode with improved lithium storage. RSC Advances, 2015, 5, 100783-100789.	3.6	14
23	Synchrotron X-ray spectroscopy investigation of the Ca _{1-x} Ln _x ZrTi ₂ (Al, Fe) ₇ zirconolite ceramics (Ln=Al, Nd, Gd, Ho, Yb). Journal of the American Ceramic Society, 2020, 103, 1463-1475.	3.8	13
24	Synergistic effects of Ln and Fe Co-Doping on phase evolution of Ca _{1-x} Ln _x ZrTi ₂ -Fe ₇ (Ln= La, Nd, Gd, Ho, Yb). Journal of Applied Physics, 2020, 127, 094101.	2.7	11
25	Evaluation of the effectiveness of Cd stabilization by a low-temperature sintering process with kaolinite/mullite addition. Waste Management, 2019, 87, 814-824.	7.4	11
26	New Barium Vanadate Ba _x V ₂ O ₅ (x=0.16) for Fast Lithium Intercalation: Lower Symmetry for Higher Flexibility and Electrochemical Durability. Small Methods, 2020, 4, 1900585.	8.6	11
27	Supported palladium nanoparticles as highly efficient catalysts for radical production: Support-dependent synergistic effects. Chemosphere, 2018, 207, 27-32.	8.2	9
28	The effect of different dopants on the performance of SnO ₂ -based dye-sensitized solar cells. Physica Status Solidi (B): Basic Research, 2015, 252, 553-557.	1.5	8
29	Surface localization of the Er-related optical active centers in Er doped zinc oxide films. Journal of Applied Physics, 2017, 121, .	2.5	8
30	Combined Fe ₂ O ₃ and CaCO ₃ Additives To Enhance the Immobilization of Pb in Cathode Ray Tube Funnel Glass. ACS Sustainable Chemistry and Engineering, 2018, 6, 3669-3675.	6.7	7
31	Pb Stabilization by a New Chemically Durable Orthophosphate Phase: Insights into the Molecular Mechanism with X-ray Structural Analysis. Environmental Science & Technology, 2020, 54, 6937-6946.	10.0	7
32	Immobilization of Lead in Cathode Ray Tube Funnel Glass with Beneficial Use of Red Mud for Potential Application in Ceramic Industry. ACS Sustainable Chemistry and Engineering, 2018, 6, 14213-14220.	6.7	6
33	Ultra-low remanence and weak magnetic agglomeration of superparamagnetic magnetite nanoparticles caused by high magnetic moment Tb ³⁺ doping. Journal of Materials Science: Materials in Electronics, 2019, 30, 20970-20978.	2.2	3
34	Optimization of Pore Walls Microstructure in Open Cell Aluminum Foams Utilizing Self-Propagating Reaction. Materials Transactions, 2019, 60, 2292-2297.	1.2	2
35	Uranium(IV) incorporation into inverse spinel magnetite (Fe_2O_3): A charge-balanced substitution case analysis. Pramana - Journal of Physics, 2019, 93, 1.	1.8	1
36	STRENGTHENING THE PORE WALLS OF Al FOAMS WITH SURFACE-ALLOYING TECHNIQUE. Surface Review and Letters, 2020, 27, 1950212.	1.1	1

#	ARTICLE	IF	CITATIONS
37	Higher valency ion substitution causing different fluorite-derived structures in CaZr _{1-x} Nd _x Ti ₂ Nb _{0.7} O ₇ (0.05 ≤ x ≤ 1) solid solution. <i>Ceramics International</i> , 2021, 47, 2694-2704.	4.8	1
38	Phase relationships of the Co-Mn-In system at 673 K and the crystal structure and magnetic properties of the novel Co ₄₂ Mn ₃₄ In ₂₄ compound. <i>Journal of Materials Science</i> , 2021, 56, 10074-10091.	3.7	1
39	Effects of CuSn ₃₃ content on the microstructure and mechanical properties of Al/Cu bimetallic foams. <i>Materials Research Express</i> , 2021, 8, 016504.	1.6	1
40	Mechanical behavior of open-cell aluminium foams filled with tin-bronze foams. <i>Materials Research Express</i> , 2021, 8, 096505.	1.6	0
41	Low charge compensator (Mg ²⁺) causing a new REE-end 3O structure (REE=Rare Earth Element) and a different phase transformation in Nd ³⁺ Co-doped zirconolite: Investigation by X-ray structural analysis. <i>Ceramics International</i> , 2022, , .	4.8	0