

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

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302126

39
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docs citations

42
times ranked

2448
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly-efficient and easy separation of $\hat{\Gamma}^3$ -Fe ₂ O ₃ selectively adsorbs U($\hat{\Gamma}$...) in waters. Environmental Research, 2022, 210, 112917.	7.5	17
2	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. Ceramics International, 2022, , .	4.8	0
3	Higher valency ion substitution causing different fluorite-derived structures in CaZr ₁ -Nd Ti ₂ -Nb O ₇ (0.05 $\hat{\Gamma}$ % x $\hat{\Gamma}$ % 1) solid solution. Ceramics International, 2021, 47, 2694-2704.	4.8	1
4	Phase relationships of the Co $\hat{\Gamma}$ "Mn $\hat{\Gamma}$ "In system at 673 $\hat{\Gamma}$ K and the crystal structure and magnetic properties of the novel Co ₄₂ Mn ₃₄ In ₂₄ compound. Journal of Materials Science, 2021, 56, 10074-10091.	3.7	1
5	Mechanical behavior of open-cell aluminium foams filled with tin-bronze foams. Materials Research Express, 2021, 8, 096505.	1.6	0
6	Effects of CuSn ₃₃ content on the microstructure and mechanical properties of Al/Cu bimetallic foams. Materials Research Express, 2021, 8, 016504.	1.6	1
7	Synchrotron x $\hat{\Gamma}$ ray spectroscopy investigation of the Ca 1 $\hat{\Gamma}$ x Ln x ZrTi 2 $\hat{\Gamma}$ x (Al, Fe) x O 7 zirconolite ceramics (Ln $\hat{\Gamma}$ La, Nd, Gd, Ho, Yb). Journal of the American Ceramic Society, 2020, 103, 1463-1475.	3.8	13
8	New Barium Vanadate Ba _x V ₂ O ₅ ($\hat{\Gamma}$ 0.16) for Fast Lithium Intercalation: Lower Symmetry for Higher Flexibility and Electrochemical Durability. Small Methods, 2020, 4, 1900585.	8.6	11
9	Constructing phase boundary in AgNbO ₃ antiferroelectrics: pathway simultaneously achieving high energy density and efficiency. Nature Communications, 2020, 11, 4824.	12.8	298
10	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
11	STRENGTHENING THE PORE WALLS OF Al FOAMS WITH SURFACE-ALLOYING TECHNIQUE. Surface Review and Letters, 2020, 27, 1950212.	1.1	1
12	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
13	Unraveling the Structure of the Poly(triazine imide)/LiCl Photocatalyst: Cooperation of Facile Syntheses and a Low-Temperature Synchrotron Approach. Inorganic Chemistry, 2019, 58, 15880-15888.	4.0	19
14	Controlling the Valence State of Cu Dopant in $\hat{\Gamma}$ -Fe ₂ O ₃ Anodes: Effects on Crystal Structure and the Conversion Reactions with Alkali Ions. Chemistry of Materials, 2019, 31, 1268-1279.	6.7	23
15	Uranium(IV) incorporation into inverse spinel magnetite ($\hat{\Gamma}$ {FeFe} ₂ {O} ₄): A charge-balanced substitution case analysis. Pramana - Journal of Physics, 2019, 93, 1.	1.8	1
16	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
17	Evaluation on the stabilization of Zn/Ni/Cu in spinel forms: Low-cost red mud as an effective precursor. Environmental Pollution, 2019, 249, 144-151.	7.5	18
18	Highly crystalline lithium chloride-intercalated graphitic carbon nitride hollow nanotubes for effective lead removal. Environmental Science: Nano, 2019, 6, 3324-3335.	4.3	16

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19	Optimization of Pore Walls Microstructure in Open Cell Aluminum Foams Utilizing Self-Propagating Reaction. <i>Materials Transactions</i> , 2019, 60, 2292-2297.	1.2	2
20	Cadmium stabilization via silicates formation: Efficiency, reaction routes and leaching behavior of products. <i>Environmental Pollution</i> , 2018, 239, 571-578.	7.5	20
21	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
22	Combined Fe ₂ O ₃ and CaCO ₃ Additives To Enhance the Immobilization of Pb in Cathode Ray Tube Funnel Glass. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3669-3675.	6.7	7
23	Facile synthesis of highly reactive and stable Fe-doped g-C ₃ N ₄ composites for peroxymonosulfate activation: A novel nonradical oxidation process. <i>Journal of Hazardous Materials</i> , 2018, 354, 63-71.	12.4	154
24	Cu ₂ O-promoted degradation of sulfamethoxazole by Cu ₂ O-Fe ₂ O ₃ -catalyzed peroxymonosulfate under circumneutral conditions: synergistic effect, Cu/Fe ratios, and mechanisms. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1-11.	2.2	39
25	Immobilization of Lead in Cathode Ray Tube Funnel Glass with Beneficial Use of Red Mud for Potential Application in Ceramic Industry. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14213-14220.	6.7	6
26	Synergistic effects of Ln and Fe Co-Doping on phase evolution of Ca _{1-x} Ln _x ZrTi ₂ -Fe _{0.7} (Ln = La, Nd, Gd, Ho, Y). <i>Journal of Hazardous Materials</i> , 2017, 321, 449-455.	2.7	11
27	Effects of ionic radius on phase evolution in Ln-Al co-doped Ca _{1-x} Ln _x ZrTi ₂ -xAl _x O ₇ (Ln = La, Nd, Gd, Ho, Y). <i>Journal of Hazardous Materials</i> , 2017, 321, 449-455.	4.8	23
28	Supported palladium nanoparticles as highly efficient catalysts for radical production: Support-dependent synergistic effects. <i>Chemosphere</i> , 2018, 207, 27-32.	8.2	9
29	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. <i>Crystal Growth and Design</i> , 2017, 17, 1079-1087.	3.0	15
30	Surface localization of the Er-related optical active centers in Er doped zinc oxide films. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	8
31	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
32	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
33	Copper-promoted circumneutral activation of H ₂ O ₂ by magnetic CuFe ₂ O ₄ spinel nanoparticles: Mechanism, stoichiometric efficiency, and pathway of degrading sulfanilamide. <i>Chemosphere</i> , 2016, 154, 573-582.	8.2	87
34	Is Excess Pb ₂ Beneficial for Perovskite Solar Cell Performance?. <i>Advanced Energy Materials</i> , 2016, 6, 1502206.	19.5	322
35	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
36	An alumina stabilized graphene oxide wrapped SnO ₂ hollow sphere LIB anode with improved lithium storage. <i>RSC Advances</i> , 2015, 5, 100783-100789.	3.6	14

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37	Hydrothermally synthesized Cu ₂ O as a catalyst for CO oxidation. Journal of Materials Chemistry A, 2015, 3, 3627-3632.	10.3	30
38	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
39	Crystal Structures of Al ³⁺ -Nd Codoped Zirconolite Derived from Glass Matrix and Powder Sintering. Inorganic Chemistry, 2015, 54, 7353-7361.	4.0	20
40	Quantitative X-ray Diffraction (QXRD) analysis for revealing thermal transformations of red mud. Chemosphere, 2015, 131, 171-177.	8.2	47
41	Cadmium Stabilization Efficiency and Leachability by CdAl ₄ O ₇ Monoclinic Structure. Environmental Science & Technology, 2015, 49, 14452-14459.	10.0	37