Jianhua Liu

List of Publications by Year in descending order

31 papers	442 citations	840776 11 h-index	752698 20 g-index
31 all docs	31 docs citations	31 times ranked	310 citing authors

#	Article	IF	Citations
1	Corrosion resistance mechanism of a novel porous Ti/Sn-Sb-RuOx/Î²-PbO2 anode for zinc electrowinning. Corrosion Science, 2018, 144, 136-144.	6.6	54
2	Study on the oxidative stabilization of polyacrylonitrile fibers by microwave heating. Polymer Degradation and Stability, 2018, 150, 86-91.	5.8	51
3	Effect of CeO2 and graphite powder on the electrochemical performance of Ti/PbO2 anode for zinc electrowinning. Ceramics International, 2018, 44, 19735-19742.	4.8	51
4	Comparison of microwave and conventional heating methods for oxidative stabilization of polyacrylonitrile fibers at different holding time and heating rate. Ceramics International, 2018, 44, 14377-14385.	4.8	35
5	Efficient method of recycling carbon fiber from the waste of carbon fiber reinforced polymer composites. Polymer Degradation and Stability, 2020, 182, 109419.	5.8	28
6	Defluorination study of spent carbon cathode by microwave high-temperature roasting. Journal of Environmental Management, 2022, 302, 114028.	7.8	22
7	Pressureless sintered magnesium aluminate spinel with enhanced mechanical properties obtained by the two-step sintering method. Journal of Alloys and Compounds, 2016, 680, 133-138.	5.5	21
8	Microwave treatment of pre-oxidized fibers for improving their structure and mechanical properties. Ceramics International, 2019, 45, 1379-1384.	4.8	21
9	Hydrogen peroxide modified polyacrylonitrile-based fibers and oxidative stabilization under microwave and conventional heating â€“ The 1st comparative study. Ceramics International, 2019, 45, 13385-13392.	4.8	20
10	Effect of Ce(NO3)4 on the electrochemical properties of Ti/PbO2â€“TiO2â€“Ce(NO3)4 electrode for zinc electrowinning. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	18
11	Effect of the microstructure and properties of graphite/copper composites fabricated by microwave sintering. Journal of Materials Science, 2021, 56, 9183-9195.	3.7	12
12	Effect of KMnO4 on chemical, crystal and microscopic structure of polyacrylonitrile fibers. Ceramics International, 2019, 45, 17669-17674.	4.8	11
13	Efficient Preparation of Si3N4 by Microwave Treatment of Solar-Grade Waste Silicon Powder. ACS Omega, 2020, 5, 5834-5843.	3.5	11
14	Fabrication of SiC reinforced aluminium metal matrix composites through microwave sintering. Materials Research Express, 2020, 7, 125101.	1.6	10
15	Elastic, electronic structure, and optical properties of orthorhombic Na3AlF6: a first-principles study. Ionics, 2018, 24, 1377-1383.	2.4	9
16	Microwave idrothermal synthesis of magnesium-aluminium spinel. Ceramics International, 2020, 46, 29207-29211.	4.8	8
17	Study on Structure Evolution and Reaction Mechanism in Microwave Pre-oxidation. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 3562-3571.	3.7	8
18	Preparation and properties of Pb/Sn/Al laminated composite anode for zinc electrowinning. RSC Advances, 2018, 8, 29147-29154.	3.6	6

#	Article	IF	Citations
19	Effects of oxidation treatment by KClO₃/H₂SO₄ systems on the chemical, crystal and microscopic structures of polyacrylonitrile fibers. New Journal of Chemistry, 2020, 44, 7876-7883.	2.8	6
20	Effect of B-site deficiency on the (In, Fe) co-doped SrTiO3. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	5
21	Preparation and electrochemical properties of a novel porous Ti/Snâ€“Sb-RuO_x/Î²-PbO₂/MnO₂ anode for zinc electrowinning. RSC Advances, 2021, 11, 19136-19146.	3.6	5
22	Comparative study of conventional and microwave heating of polyacrylonitrile-based fibres. Journal of Polymer Engineering, 2021, 41, 175-183.	1.4	5
23	Preparation and Electrochemical Performance of the Stainless Steel/Î±-PbO₂-ZrO₂/Î²-PbO₂-ZrO₂-CNT Composite Anode. ECS Journal of Solid State Science and Technology, 2020, 9, 121011.	1.8	5
24	Effect of Microwave-Activated Sintering on Microstructure and Properties of Graphite/Copper Composites. ACS Applied Electronic Materials, 2021, 3, 2268-2276.	4.3	4
25	Effect of Pb(NO3)2 on Preparation and Properties of CF/Î²-PbO2 Electrodes for Zinc Electrowinning. ECS Journal of Solid State Science and Technology, 2020, 9, 101003.	1.8	3
26	Influence of parameters of high-energy ball milling on the synthesis and densification of magnesium aluminate spinel. Science of Sintering, 2016, 48, 353-362.	1.4	3
27	Effect of Y2O3 on the corrosion resistance of two-step sintered Al5Y3O12-MgAl2O4 sidewalls in the aluminum electrolyte. Journal of the European Ceramic Society, 2022, 42, 1815-1821.	5.7	3
28	Effect of Reaction Time on the Synthesis and Sintering of Magnesium-Aluminium Spinel by Microwave Hydrothermal Synthesis. Transactions of the Indian Ceramic Society, 2021, 80, 265-269.	1.0	2
29	Preparation of the micro-size flake silver powders by using a micro-jet reactor. Green Processing and Synthesis, 2022, 11, 385-395.	3.4	2
30	Preparation of micron-sized plate-like silver powders used in silver paste by wet-chemical reduction method. Journal of Materials Science: Materials in Electronics, 2022, 33, 14021-14031.	2.2	2
31	Comparative study on coprecipitation and microwave hydrothermal synthesis of magnesium aluminum spinel. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	1