Zhiwei Luo

List of Publications by Year
in descending order

51 papers	934 citations	516710 16 h-index	501196 28 g-index
51 all docs	51 docs citations	51 times ranked	568 citing authors

#	Article	IF	Citations
1	Crystallization kinetics and optical properties of transparent glass-ceramics embedding ZnGa2O4 nanocrystals with enhanced defect luminescence. Journal of Non-Crystalline Solids, 2022, 576, 121255.	3.1	10
2	Preparation, crystallization kinetics, and optical temperature sensing properties of Er3+-Yb3+ co-doped fluorosilicate glass-ceramics containing ZnAl2O4 crystals. Journal of Alloys and Compounds, 2022, 895, 162673.	5.5	15
3	Enhanced defect emission of TiO2-doped transparent glass-ceramics embedding ZnO quantum dots with optimized heat-treatment schedule. Ceramics International, 2022, 48, 5609-5616.	4.8	4
4	Effects of Ce3+ Ions on Physicochemical and Optical Properties of Gd2O3-Ga2O3-Al2O3-SiO2-Na2O Glass. Silicon, 2022, 14, 7971-7982.	3.3	7
5	Effect of sintering temperature and holding time on the crystal phase, microstructure, and ionic conductivity of NASICON-type 33Na2O-40ZrO2-40SiO2-10P2O5 solid electrolytes. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	4
6	Crystallization kinetics and blue-light fluorescence characteristics of transparent ZnO-Ga2O3â€“SiO2 glass-ceramics containing ZnGa2O4 nanocrystals. Optical Materials, 2022, 128, 112382.	3.6	5
7	Preparation and photocatalytic properties of dual-crystalline glass-ceramics containing NASICON-type KTi2(PO4)3 and anatase-type TiO2. Journal of Non-Crystalline Solids, 2022, 589, 121661.	3.1	3
8	Er3+/Yb3+ co-doped SiO2-Al2O3-CaO-CaF2 glass: Structure, J-O analysis and fluorescent properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114919.	3.5	18
9	Thermal, structural and electrical properties of fluorine-doped Li3.6Al0.8Ti4.0P7.6O30-/2F (xÂ= 0, 0.5, 1,) Tj ETQq1 1 0.784314 rgBT /Ov	5.5	17
10	The role and stabilization behavior of heavy metal ions in eco-friendly porous semi-vitrified ceramics for construction application. Journal of Cleaner Production, 2021, 292, 125855.	9.3	16
11	Preparation and broadband white emission of Ce3+-doped transparent glass-ceramics containing ZnO nanocrystals for WLEDs applications. Journal of Alloys and Compounds, 2021, 875, 159979.	5.5	26
12	Color tunable up-conversion luminescence characteristics of Yb3+-Er3+-Tm3+ tri-doped fluorosilicate glass potentially used in WLED field. Optical Materials, 2021, 119, 111320.	3.6	5
13	ZrO2-doped transparent glass-ceramics embedding ZnO nano-crystalline with enhanced defect emission for potential yellow-light emitter applications. Ceramics International, 2021, 47, 35073-35080.	4.8	12
14	Effect of Tb3+ ion concentration on the up-conversion and down-conversion luminescence properties of the Yb3+/Ho3+/Tb3+ tri-doped SiO2â€“Al2O3â€“Y2O3â€“NaFâ€“CaF2 glasses. Optical Materials, 2021, 121, 111567.	3.6	12
15	Use of steel slag and quartz sandâ€tailing for the preparation of an ecoâ€friendly permeable brick. International Journal of Applied Ceramic Technology, 2020, 17, 94-104.	2.1	15
16	Structure and properties of Fe2O3-doped 50Li2O-10B2O3-40P2O5 glass and glass-ceramic electrolytes. Solid State Ionics, 2020, 345, 115177.	2.7	22
17	Effects of a dual doping strategy on the structure and ionic conductivity of garnet-type electrolyte. Solid State Ionics, 2020, 356, 115427.	2.7	18
18	Characterization of structure and properties of MgO-Al2O3-SiO2-B2O3-Cr2O3 glass-ceramics. Journal of Non-Crystalline Solids, 2020, 543, 120154.	3.1	34

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19	Improving sealing properties of CaO-SrO-Al2O3-SiO2 glass and glass-ceramics for solid oxide fuel cells: Effect of La2O3 addition. Ceramics International, 2020, 46, 17698-17706.	4.8	25
20	Crystal structure refinement, microstructure and ionic conductivity of ATi2(PO4)3 (A=Li, Na, K) solid electrolytes. Ceramics International, 2020, 46, 15613-15620.	4.8	12
21	Effect of F/O ratio on up-conversion and down-conversion luminescence properties of Er3+/Yb3+ co-doped SiO2â€“Al2O3â€“AlF3-Gd2O3â€“Na2O glass. Journal of Alloys and Compounds, 2020, 827, 154274.	5.5	19
22	Preparation and properties of Li2O-La2O3-ZrO2-P2O5 glass ceramics for potential solid electrolyte applications. Solid State Ionics, 2019, 332, 77-85.	2.7	15
23	Effect of Fe2O3 substitution for Al2O3 on the structure and properties of Na-Fe-Al-P-O-N oxynitride glasses. Journal of Non-Crystalline Solids, 2019, 512, 132-139.	3.1	7
24	Crystallization kinetics and phase formation of Li2O-SiO2-Si3N4 glass-ceramics with P2O5 nucleating agent. Journal of Alloys and Compounds, 2019, 786, 688-697.	5.5	10
25	Crystallization kinetics and the dielectric properties of SrO-BaO-Nb2O5-B2O3 glass-ceramics. Journal of Electroceramics, 2019, 43, 10-19.	2.0	3
26	Sr2+/Y3+ co-doped MgO-Al2O3-SiO2-based glasses and transparent glass-ceramics: Crystallization, structure and properties. Ceramics International, 2019, 45, 2036-2043.	4.8	34
27	Sintering behavior, microstructures and mechanical properties of porous CaO-Al2O3-SiO2-Si3N4 glass-ceramics. Journal of Alloys and Compounds, 2019, 773, 71-77.	5.5	14
28	Glass forming, crystallization, and physical properties of MgO-Al2O3-SiO2-B2O3 glass-ceramics modified by ZnO replacing MgO. Journal of the European Ceramic Society, 2019, 39, 1397-1410.	5.7	121
29	La2O3-added lithium-ion conducting silicate oxynitride glasses. Solid State Ionics, 2018, 317, 76-82.	2.7	6
30	Effect of Y/Al ratio on crystallization, microstructures and mechanical properties of Y-Si-Al-O-N-F glass-ceramics. Ceramics International, 2018, 44, 8242-8248.	4.8	1
31	CoO-doped MgOâ€“Al2O3â€“SiO2-colored transparent glassâ€“ceramics with high crystallinity. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	7
32	Microstructures and energy storage properties of BSN ceramics with crystallizable glass addition. Journal of Materials Science: Materials in Electronics, 2018, 29, 5934-5943.	2.2	13
33	Crystallization, structure and characterization of MgO-Al2O3-SiO2-P2O5 transparent glass-ceramics with high crystallinity. Journal of Non-Crystalline Solids, 2018, 481, 123-131.	3.1	79
34	Synthesis and properties of AlN/MAS/Si3N4 ternary glass-ceramic composites with in-situ grown rod-like Î²-Si3N4 crystals. Ceramics International, 2018, 44, 1875-1880.	4.8	9
35	Controllable preparation and high ionic conductivity of Fe2O3-doped 46Li2O-4Al2O3-50P2O5 glass-ceramics. Journal of Non-Crystalline Solids, 2018, 500, 401-409.	3.1	6
36	Crystallization, structure and properties of MgO-Al2O3-SiO2 highly crystalline transparent glass-ceramics nucleated by multiple nucleating agents. Journal of the European Ceramic Society, 2018, 38, 4533-4542.	5.7	74

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37	The Effects of Co2O3 Addition on Crystallization, Microstructure and Properties of Cordierite-Based Glass-Ceramics. Silicon, 2018, 10, 2123-2128.	3.3	4
38	Synthesis and characterizations of ultra-low sintering temperature BaTiO3/BaOâ€“ZnOâ€“Bi2O3â€“B2O3 glass ceramic composite. Journal of Materials Science: Materials in Electronics, 2017, 28, 16062-16070.	2.2	0
39	In situ synthesis and properties of self-reinforced $$hbox {Si}_{3} hbox {N}_{4}extendash hbox		