

# Zhiwei Luo

## List of Publications by Citations

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51  
papers

499  
citations

12  
h-index

20  
g-index

51  
ext. papers

715  
ext. citations

4  
avg, IF

4.11  
L-index

#	Paper	IF	Citations
51	Glass forming, crystallization, and physical properties of MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> glass-ceramics modified by ZnO replacing MgO. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 1397-1410	6	59
50	Crystallization, structure and characterization of MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> transparent glass-ceramics with high crystallinity. <i>Journal of Non-Crystalline Solids</i> , <b>2018</b> , 481, 123-131	3.9	48
49	Crystallization, structure and properties of MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> highly crystalline transparent glass-ceramics nucleated by multiple nucleating agents. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 4533-4542	6	37
48	Preparation and characterization of glass-ceramic foams with waste quartz sand and coal gangue in different proportions. <i>Journal of Porous Materials</i> , <b>2016</b> , 23, 231-238	2.4	33
47	Preparation and properties of transparent cordierite-based glass-ceramics with high crystallinity. <i>Ceramics International</i> , <b>2015</b> , 41, 14130-14136	5.1	27
46	Sr <sup>2+</sup> /Y <sup>3+</sup> co-doped MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -based glasses and transparent glass-ceramics: Crystallization, structure and properties. <i>Ceramics International</i> , <b>2019</b> , 45, 2036-2043	5.1	21
45	Characterization of structure and properties of MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -Cr <sub>2</sub> O <sub>3</sub> glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , <b>2020</b> , 543, 120154	3.9	17
44	MgO-doping in the Li <sub>2</sub> O-Na <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glass-ceramics for better sealing with steel. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 405, 170-175	3.9	17
43	Effects of nitrogen and lanthanum on the preparation and properties of La-Ca-Bi-Al-O-N oxynitride glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 361, 17-25	3.9	17
42	Transparent oxynitride glasses: Synthesis, microstructure, optical transmittance and ballistic resistance. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 378, 45-49	3.9	15
41	Synthesis, crystallization behavior, microstructure and mechanical properties of oxynitride glass-ceramics with fluorine addition. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 362, 207-215	3.9	13
40	La <sub>2</sub> O <sub>3</sub> substitution in Li-Al-P-O-N glasses for potential solid electrolytes applications. <i>Solid State Ionics</i> , <b>2016</b> , 295, 104-110	3.3	12
39	The preparation and properties of zirconia-doped Y-Bi-Al-O-N oxynitride glasses and glass-ceramics. <i>Ceramics International</i> , <b>2013</b> , 39, 8885-8892	5.1	12
38	Preparation and properties of Li <sub>2</sub> O-La <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> glass ceramics for potential solid electrolyte applications. <i>Solid State Ionics</i> , <b>2019</b> , 332, 77-85	3.3	10
37	Effects of nitrogen on phase formation, microstructure and mechanical properties of Y-Ca-Bi-Al-O-N oxynitride glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 368, 79-85	3.9	10
36	Zn-Br mixing in the Y-sialon glass: Formation, properties and ballistic resistance. <i>Journal of Non-Crystalline Solids</i> , <b>2015</b> , 421, 41-47	3.9	9
35	Sintering behavior, microstructure and mechanical properties of various fluorine-containing Y-SiAlON glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 388, 62-67	3.9	9

34	Thermal, structural and electrical properties of fluorine-doped $\text{Li}_{3.6}\text{Al}_{0.8}\text{Ti}_{4.0}\text{P}_{7.6}\text{O}_{30}/2\text{F}$ ( $x=0, 0.5, 1, 2$ ) glass-ceramic electrolytes. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 853, 157191	5.7	9
33	Improving sealing properties of $\text{CaO-SrO-Al}_2\text{O}_3\text{-SiO}_2$ glass and glass-ceramics for solid oxide fuel cells: Effect of $\text{La}_2\text{O}_3$ addition. <i>Ceramics International</i> , <b>2020</b> , 46, 17698-17706	5.1	8
32	Effect of F/O ratio on up-conversion and down-conversion luminescence properties of $\text{Er}^{3+}/\text{Yb}^{3+}$ co-doped $\text{SiO}_2\text{-Al}_2\text{O}_3\text{-AlF}_3\text{-Gd}_2\text{O}_3\text{-Na}_2\text{O}$ glass. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 827, 154274	5.7	8
31	Microstructures and energy storage properties of BSN ceramics with crystallizable glass addition. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 5934-5943	2.1	8
30	Structure and properties of $\text{Fe}_2\text{O}_3$ -doped $50\text{Li}_2\text{O-10B}_2\text{O}_3\text{-40P}_2\text{O}_5$ glass and glass-ceramic electrolytes. <i>Solid State Ionics</i> , <b>2020</b> , 345, 115177	3.3	8
29	Effects of a dual doping strategy on the structure and ionic conductivity of garnet-type electrolyte. <i>Solid State Ionics</i> , <b>2020</b> , 356, 115427	3.3	8
28	$\text{Er}^{3+}/\text{Yb}^{3+}$ co-doped $\text{SiO}_2\text{-Al}_2\text{O}_3\text{-CaO-CaF}_2$ glass: Structure, J-O analysis and fluorescent properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2021</b> , 264, 114919	3.1	8
27	Crystal structure refinement, microstructure and ionic conductivity of $\text{ATi}_2(\text{PO}_4)_3$ (A=Li, Na, K) solid electrolytes. <i>Ceramics International</i> , <b>2020</b> , 46, 15613-15620	5.1	7
26	Sintering behavior, microstructures and mechanical properties of porous $\text{CaO-Al}_2\text{O}_3\text{-SiO}_2\text{-Si}_3\text{N}_4$ glass-ceramics. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 773, 71-77	5.7	7
25	Preparation and broadband white emission of $\text{Ce}^{3+}$ -doped transparent glass-ceramics containing $\text{ZnO}$ nanocrystals for WLEDs applications. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 875, 159979	5.7	7
24	$\text{La}_2\text{O}_3$ -added lithium-ion conducting silicate oxynitride glasses. <i>Solid State Ionics</i> , <b>2018</b> , 317, 76-82	3.3	6
23	Controllable preparation and high ionic conductivity of $\text{Fe}_2\text{O}_3$ -doped $46\text{Li}_2\text{O-4Al}_2\text{O}_3\text{-50P}_2\text{O}_5$ glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , <b>2018</b> , 500, 401-409	3.9	6
22	Effect of $\text{Fe}_2\text{O}_3$ substitution for $\text{Al}_2\text{O}_3$ on the structure and properties of $\text{Na-Fe-Al-P-O-N}$ oxynitride glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 512, 132-139	3.9	5
21	Effects of MO (M = Mg, Ca, Ba) on crystallization and flexural strength of semi-transparent lithium disilicate glass-ceramics. <i>Bulletin of Materials Science</i> , <b>2011</b> , 34, 1511-1516	1.7	5
20	The role and stabilization behavior of heavy metal ions in eco-friendly porous semi-vitrified ceramics for construction application. <i>Journal of Cleaner Production</i> , <b>2021</b> , 292, 125855	10.3	5
19	Use of steel slag and quartz sand-tailing for the preparation of an eco-friendly permeable brick. <i>International Journal of Applied Ceramic Technology</i> , <b>2020</b> , 17, 94-104	2	5
18	$\text{CoO}$ -doped $\text{MgO-Al}_2\text{O}_3\text{-SiO}_2$ -colored transparent glass-ceramics with high crystallinity. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	4
17	Synthesis and properties of $\text{AlN/MAS/Si}_3\text{N}_4$ ternary glass-ceramic composites with in-situ grown rod-like $\text{Si}_3\text{N}_4$ crystals. <i>Ceramics International</i> , <b>2018</b> , 44, 1875-1880	5.1	4

16	ZrO <sub>2</sub> -doped transparent glass-ceramics embedding ZnO nano-crystalline with enhanced defect emission for potential yellow-light emitter applications. <i>Ceramics International</i> , <b>2021</b> ,	5.1	4
15	Crystallization kinetics and phase formation of Li <sub>2</sub> O-SiO <sub>2</sub> -Si <sub>3</sub> N <sub>4</sub> glass-ceramics with P <sub>2</sub> O <sub>5</sub> nucleating agent. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 786, 688-697	5.7	2
14	Crystallization kinetics and the dielectric properties of SrO-BaO-Nb <sub>2</sub> O <sub>5</sub> -B <sub>2</sub> O <sub>3</sub> glass-ceramics. <i>Journal of Electroceramics</i> , <b>2019</b> , 43, 10-19	1.5	2
13	Effect of Y/Al ratio on crystallization, microstructures and mechanical properties of Y-Si-Al-O-N-F glass-ceramics. <i>Ceramics International</i> , <b>2018</b> , 44, 8242-8248	5.1	1
12	In situ synthesis and properties of self-reinforced (hbox {Si}_{3} hbox {N}_{4}textendash hbox {SiO}_{2}textendash hbox {Al}_{2} hbox {O}_{3}textendash hbox {Y}_{2} hbox {O}_{3} (hbox {La}_{2} hbox {O}_{3})) glass ceramic composites. <i>Bulletin of Materials Science</i> , <b>2017</b> , 40, 683-690	1.7	1
11	Crystallization kinetics and optical properties of transparent glass-ceramics embedding ZnGa <sub>2</sub> O <sub>4</sub> nanocrystals with enhanced defect luminescence. <i>Journal of Non-Crystalline Solids</i> , <b>2022</b> , 576, 121255	3.9	1
10	Preparation, crystallization kinetics, and optical temperature sensing properties of Er <sup>3+</sup> -Yb <sup>3+</sup> co-doped fluorosilicate glass-ceramics containing ZnAl <sub>2</sub> O <sub>4</sub> crystals. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 895, 162673	5.7	1
9	Enhanced defect emission of TiO <sub>2</sub> -doped transparent glass-ceramics embedding ZnO quantum dots with optimized heat-treatment schedule. <i>Ceramics International</i> , <b>2021</b> , 48, 5609-5609	5.1	1
8	The Effects of Co <sub>2</sub> O <sub>3</sub> Addition on Crystallization, Microstructure and Properties of Cordierite-Based Glass-Ceramics. <i>Silicon</i> , <b>2018</b> , 10, 2123-2128	2.4	1
7	Effect of Tb <sup>3+</sup> ion concentration on the up-conversion and down-conversion luminescence properties of the Yb <sup>3+</sup> /Ho <sup>3+</sup> /Tb <sup>3+</sup> tri-doped SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> /NaF/CaF <sub>2</sub> glasses. <i>Optical Materials</i> , <b>2021</b> , 121, 111567	3.3	1
6	Effects of Ce <sup>3+</sup> Ions on Physicochemical and Optical Properties of Gd <sub>2</sub> O <sub>3</sub> -Ga <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -Na <sub>2</sub> O Glass. <i>Silicon</i> , 1	2.4	0
5	Color tunable up-conversion luminescence characteristics of Yb <sup>3+</sup> -Er <sup>3+</sup> -Tm <sup>3+</sup> tri-doped fluorosilicate glass potentially used in WLED field. <i>Optical Materials</i> , <b>2021</b> , 119, 111320	3.3	0
4	Effect of sintering temperature and holding time on the crystal phase, microstructure, and ionic conductivity of NASICON-type 33Na <sub>2</sub> O-40ZrO <sub>2</sub> -40SiO <sub>2</sub> -10P <sub>2</sub> O <sub>5</sub> solid electrolytes. <i>Applied Physics A: Materials Science and Processing</i> , <b>2022</b> , 128, 1	2.6	0
3	Crystallization kinetics and blue-light fluorescence characteristics of transparent ZnO-Ga <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> glass-ceramics containing ZnGa <sub>2</sub> O <sub>4</sub> nanocrystals. <i>Optical Materials</i> , <b>2022</b> , 128, 112382	3.3	0
2	Synthesis and characterizations of ultra-low sintering temperature BaTiO <sub>3</sub> /BaO/ZnO/Bi <sub>2</sub> O <sub>3</sub> /B <sub>2</sub> O <sub>3</sub> glass ceramic composite. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 16062-16070	2.1	
1	Preparation and photocatalytic properties of dual-crystalline glass-ceramics containing NASICON-type KTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> and anatase-type TiO <sub>2</sub> . <i>Journal of Non-Crystalline Solids</i> , <b>2022</b> , 589, 121661	3.9	