

# Xinhong Liu

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Dual Evolution in Defect and Morphology of Single-Atom Dispersed Carbon Based Oxygen Electrocatalyst. <i>Advanced Functional Materials</i> , 2021, 31, 2010472.	14.9	78
2	Preparation and thermal shock behavior of nanoscale MgAl <sub>2</sub> O <sub>4</sub> spinel-toughened MgO-based refractory aggregates. <i>Ceramics International</i> , 2019, 45, 12093-12100.	4.8	65
3	Transient liquid phase diffusion process for porous mullite ceramics with excellent mechanical properties. <i>Ceramics International</i> , 2018, 44, 19123-19130.	4.8	45
4	Enhancement of the thermal shock resistance of MgO-C slide plate materials with the addition of nano-ZrO <sub>2</sub> modified magnesia aggregates. <i>Journal of Alloys and Compounds</i> , 2020, 847, 156339.	5.5	37
5	Synthesis of MgO-MgAl <sub>2</sub> O <sub>4</sub> refractory aggregates for application in MgO-C slide plate. <i>Ceramics International</i> , 2019, 45, 24768-24776.	4.8	31
6	Effect of heat treatment conditions on the growth of MgAl <sub>2</sub> O <sub>4</sub> nanoparticles obtained by sol-gel method. <i>Ceramics International</i> , 2017, 43, 15246-15253.	4.8	29
7	Novel synthesis of ultra-long single crystalline $\beta$ -SiC nanofibers with strong blue/green luminescent properties. <i>Ceramics International</i> , 2016, 42, 4600-4606.	4.8	28
8	Large scale synthesis and photoluminescence properties of necklace-like SiC/SiO <sub>x</sub> heterojunctions via a molten salt mediated vapor reaction technique. <i>Ceramics International</i> , 2017, 43, 2950-2955.	4.8	26
9	A novel and green preparation of porous forsterite ceramics with excellent thermal isolation properties. <i>Ceramics International</i> , 2019, 45, 2953-2961.	4.8	24
10	Synthesis of bamboo-like 3C-SiC nanowires with good luminescent property via nano-ZrO <sub>2</sub> catalyzed chemical vapor deposition technique. <i>Ceramics International</i> , 2018, 44, 22890-22896.	4.8	23
11	Formation and growth of in-situ SiC nanowires in Al <sub>2</sub> O <sub>3</sub> -C materials under various atmospheres. <i>Ceramics International</i> , 2020, 46, 27750-27757.	4.8	20
12	Photoluminescence properties of SiC/SiO <sub>2</sub> heterojunctions obtained by TiO <sub>2</sub> -assisted chemical vapor deposition. <i>Ceramics International</i> , 2018, 44, 11204-11210.	4.8	18
13	Synthesis of blue-green photoluminescent $\beta$ -SiC nanowires via a simple catalyst-free CVD technique. <i>Materials Letters</i> , 2019, 234, 187-190.	2.6	18
14	Preparation and application of ZrB <sub>2</sub> -SiCw composite powder for corrosion resistance improvement in Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> -C slide plate materials. <i>Ceramics International</i> , 2020, 46, 9817-9825.	4.8	17
15	A novel method for the fabrication of porous calcium hexaluminate (CA6) ceramics using pre-fired CaO/Al <sub>2</sub> O <sub>3</sub> pellets as calcia source. <i>Ceramics International</i> , 2020, 46, 4762-4770.	4.8	16
16	Oxidation kinetics of bauxite-based $\beta$ -SiAlON with different particle sizes. <i>Corrosion Science</i> , 2020, 166, 108446.	6.6	16
17	Effect of firing atmosphere on the microstructure and properties of Al <sub>2</sub> O <sub>3</sub> -SiC-C castables. <i>Ceramics International</i> , 2021, 47, 14280-14289.	4.8	16
18	Properties and microstructure evolution of unfired Al-Si incorporated Al <sub>2</sub> O <sub>3</sub> -C slide plate materials with trace nano-Al <sub>2</sub> O <sub>3</sub> particles. <i>Ceramics International</i> , 2021, 47, 33641-33650.	4.8	15

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19	Trace nanoscale Al <sub>2</sub> O <sub>3</sub> in Al <sub>2</sub> O <sub>3</sub> -MgAl <sub>2</sub> O <sub>4</sub> castable for improved thermal shock performance. <i>Ceramics International</i> , 2019, 45, 23029-23036.	4.8	14
20	Preparation and properties of mullite-SiC-O <sub>2</sub> -SiAlON composites for application in cement kiln. <i>Ceramics International</i> , 2020, 46, 15456-15463.	4.8	14
21	Synthesis of SiC nanowires by a simple chemical vapour deposition route in the presence of ZrB <sub>2</sub> . <i>Ceramics International</i> , 2020, 46, 12249-12254.	4.8	13
22	Large scale synthesis and photoluminescent property of ultra-long AlN nanowires via a NH <sub>4</sub> Cl assisted chemical vapor reaction method. <i>Ceramics International</i> , 2018, 44, 7267-7272.	4.8	12
23	Synthesis of photoluminescent SiC-SiO <sub>x</sub> nanowires using coal tar pitch as carbon source. <i>Ceramics International</i> , 2020, 46, 27232-27237.	4.8	12
24	Preparation, microstructure and properties of Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> -C slide plate material in presence of nanoscale oxides. <i>Ceramics International</i> , 2022, 48, 10126-10135.	4.8	10
25	Evolution of phase composition and microstructure of commercial Al <sub>2</sub> O <sub>3</sub> gel in different heat treatment condition. <i>Ceramics International</i> , 2018, 44, 7883-7890.	4.8	9
26	Synthesis and growth mechanism of aluminum nitride nanowires via a chloride-assisted chemical vapor reaction method. <i>Ceramics International</i> , 2019, 45, 4520-4525.	4.8	9
27	Tunable Synthesis of SiC/SiO <sub>2</sub> Heterojunctions via Temperature Modulation. <i>Materials</i> , 2018, 11, 766.	2.9	8
28	Microstructure and reactivity evolution of colloidal silica binder in different systems at elevated temperatures. <i>Ceramics International</i> , 2020, 46, 20129-20137.	4.8	8
29	Interfacial spinellisation of MgO-C/Al <sub>2</sub> O <sub>3</sub> -C composite functional refractory component at high temperatures. <i>Ceramics International</i> , 2021, 47, 2705-2714.	4.8	8
30	A novel strategy to fabricate high-strength mullite by the reaction sintering method using Al <sub>3</sub> +/Ce <sup>4+</sup> -doped SiO <sub>2</sub> . <i>Ceramics International</i> , 2021, 47, 13129-13138.	4.8	8
31	Effect of impurities of Fe <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> in bauxite on oxidation kinetics of $\beta$ -SiAlON powders. <i>Corrosion Science</i> , 2022, 203, 110374.	6.6	8
32	Synthesis of photoluminescent polycrystalline SiC nanostructures via a modified molten salt shielded method. <i>Ceramics International</i> , 2022, 48, 12342-12349.	4.8	7
33	Synthesis of ultra-long aluminum nitride nanowires with excellent photoluminescent property by aluminum chloride assisted chemical vapor reaction technique. <i>Ceramics International</i> , 2019, 45, 12387-12392.	4.8	6
34	Role of nano-ZrO <sub>2</sub> powder in in-situ formation of ceramic whiskers in Al <sub>2</sub> O <sub>3</sub> -C slide plate materials. <i>Ceramics International</i> , 2022, 48, 31579-31586.	4.8	5
35	Preparation and application of unfired Al <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -C slide plate materials in the presence of trace Zn. <i>Ceramics International</i> , 2021, 47, 1578-1587.	4.8	3
36	Effect of Al(H <sub>2</sub> PO <sub>4</sub> ) <sub>3</sub> /Zn/B <sub>4</sub> C doped resin on properties and microstructure of unfired Al <sub>2</sub> O <sub>3</sub> -C slide plate materials. <i>Ceramics International</i> , 2022, 48, 472-480.	4.8	3

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37	Fabrication of porous forsterite-spinel-periclase ceramics by transient liquid phase diffusion process for high-temperature thermal isolation. <i>Ceramics International</i> , 2022, 48, 2330-2336.	4.8	3
38	Zifâ€Derived Electrocatalysis: Dual Evolution in Defect and Morphology of Singleâ€Atom Dispersed Carbon Based Oxygen Electrocatalyst ( <i>Adv. Funct. Mater.</i> 19/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170132.	14.9	1
39	Novel synthesis of ZrO <sub>2</sub> -SiCw-C insert ring materials for slide plates. <i>Ceramics International</i> , 2022, 48, 694-701.	4.8	1