

# Xinhong Liu

## List of Publications by Year in descending order

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| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | 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         |
| 2  | 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         |
| 3  | 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         |
| 4  | Synthesis of photoluminescent polycrystalline SiC nanostructures via a modified molten salt shielded method. <i>Ceramics International</i> , 2022, 48, 12342-12349.   | 4.8  | 7         |
| 5  | 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        |
| 6  | Effect of impurities of Fe <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> in bauxite on oxidation kinetics of $\hat{\Gamma}^2$ -SiAlON powders. <i>Corrosion Science</i> , 2022, 203, 110374.   | 6.6  | 8         |
| 7  | 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         |
| 8  | 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         |
| 9  | Preparation and application of unfired Al <sub>2</sub> O <sub>3</sub> -Al-C slide plate materials in the presence of trace Zn. <i>Ceramics International</i> , 2021, 47, 1578-1587.   | 4.8  | 3         |
| 10 | 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        |
| 11 | 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        |
| 12 | Zif-8 Derived Electrocatalysis: Dual Evolution in Defect and Morphology of Single-Atom Dispersed Carbon Based Oxygen Electrocatalyst ( <i>Adv. Funct. Mater.</i> 19/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170132.                | 14.9 | 1         |
| 13 | 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         |
| 14 | 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        |
| 15 | A novel method for the fabrication of porous calcium hexaluminate (CA <sub>6</sub> ) 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 | 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        |
| 17 | Oxidation kinetics of bauxite-based $\hat{\Gamma}^2$ -SiAlON with different particle sizes. <i>Corrosion Science</i> , 2020, 166, 108446.   | 6.6  | 16        |
| 18 | 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        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | Preparation and properties of mullite-SiC-O <sup>2</sup> -SiAlON composites for application in cement kiln. <i>Ceramics International</i> , 2020, 46, 15456-15463.   | 4.8 | 14        |
| 22 | 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         |
| 23 | 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        |
| 24 | 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        |
| 25 | 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        |
| 26 | 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        |
| 27 | 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         |
| 28 | 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         |
| 29 | 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        |
| 30 | 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        |
| 31 | 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         |
| 32 | 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        |
| 33 | 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        |
| 34 | 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        |
| 35 | Tunable Synthesis of SiC/SiO <sub>2</sub> Heterojunctions via Temperature Modulation. <i>Materials</i> , 2018, 11, 766.  | 2.9 | 8         |
| 36 | Transient liquid phase diffusion process for porous mullite ceramics with excellent mechanical properties. <i>Ceramics International</i> , 2018, 44, 19123-19130.  | 4.8 | 45        |

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|----|--|-----|-----------|
| 37 | Large scale synthesis and photoluminescence properties of necklace-like SiC/SiO <sub>x</sub> heterojunctions via a molten salt mediated vapor reaction technique. Ceramics International, 2017, 43, 2950-2955. | 4.8 | 26        |
| 38 | Effect of heat treatment conditions on the growth of MgAl <sub>2</sub> O <sub>4</sub> nanoparticles obtained by sol-gel method. Ceramics International, 2017, 43, 15246-15253.                                 | 4.8 | 29        |
| 39 | Novel synthesis of ultra-long single crystalline $\beta$ -SiC nanofibers with strong blue/green luminescent properties. Ceramics International, 2016, 42, 4600-4606.   | 4.8 | 28        |