

Ruoyu Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3962529/publications.pdf>

Version: 2024-02-01

45
papers

896
citations

430874

18
h-index

501196

28
g-index

45
all docs

45
docs citations

45
times ranked

558
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Preparation of castable foam with regular micro-spherical pore structure as a substitute for diatomite brick. <i>Ceramics International</i> , 2022, 48, 21589-21599. | 4.8 | 2 |
| 2 | Additive manufacturing of complexly shaped SiC with high density via extrusion-based technique “ Effects of slurry thixotropic behavior and 3D printing parameters. <i>Ceramics International</i> , 2022, 48, 28444-28454. | 4.8 | 14 |
| 3 | Effects of mechanically alloying Al ₂ O ₃ and Y ₂ O ₃ additives on the liquid phase sintering behavior and properties of SiC. <i>Ceramics International</i> , 2022, 48, 31679-31685. | 4.8 | 7 |
| 4 | Preparation of novel reticulated prickly porous ceramics with mullite whiskers. <i>Journal of the European Ceramic Society</i> , 2021, 41, 864-870. | 5.7 | 21 |
| 5 | Synthesizing low-cost, high-corrosion-resistant refractory kiln furniture for the calcination of Li-ion battery cathode materials. <i>Ceramics International</i> , 2021, 47, 4049-4054. | 4.8 | 17 |
| 6 | A novel approach to prepare high strength and high porosity reticulated porous ceramics by in-situ synthesis of mullite whiskers. <i>Ceramics International</i> , 2021, 47, 14561-14568. | 4.8 | 12 |
| 7 | Dual-functional application of Al ₂ O ₃ –B ₂ O ₃ composite bubble in Al ₂ O ₃ –SiC–C castables as antioxidant and mechanical reinforcement agents. <i>Ceramics International</i> , 2021, 47, 23686-23690. | 4.8 | 3 |
| 8 | Enhanced mechanical strength of SiC reticulated porous ceramics via addition of in-situ chopped carbon fibers. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161638. | 5.5 | 6 |
| 9 | Recycling of municipal solid waste incineration fly ash in foam ceramic materials for exterior building walls. <i>Journal of Building Engineering</i> , 2021, 44, 103427. | 3.4 | 10 |
| 10 | Effect of recoating slurry with different particle size on the properties of reticulated porous mullite ceramics. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 619-629. | 1.9 | 7 |
| 11 | Novel aluminum borate foams with controllable structures as exquisite high-temperature thermal insulators. <i>Journal of the European Ceramic Society</i> , 2020, 40, 173-180. | 5.7 | 30 |
| 12 | Fabrication and characterization of a mullite-foamed ceramic reinforced by in-situ SiC whiskers. <i>Ceramics International</i> , 2020, 46, 3132-3138. | 4.8 | 25 |
| 13 | Environment-oriented low-cost Al ₂ O ₃ ceramics with hierarchical pore structure fabricated from SiC solid waste. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 184-189. | 2.1 | 7 |
| 14 | Microstructures and Properties of Carbon Fibers and in-situ Whiskers Reinforced Mullite-Based Castable Composites. <i>Transactions of the Indian Ceramic Society</i> , 2020, 79, 182-187. | 1.0 | 2 |
| 15 | A novel design of neutron shielding composite materials with three-dimensionally interwoven structure and excellent properties. <i>Journal of Alloys and Compounds</i> , 2020, 845, 156328. | 5.5 | 13 |
| 16 | Low thermal expansion coefficient and high thermal conductivity epoxy/Al ₂ O ₃ /T-ZnOw composites with dual-scale interpenetrating network structure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 137, 105993. | 7.6 | 40 |
| 17 | Preparation of high-strength lightweight alumina with plant-derived pore using corn stalk as pore-forming agent. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 2465-2472. | 2.1 | 3 |
| 18 | Fabrication, characterization and thermal-insulation modeling of foamed mullite-SiC ceramics. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154523. | 5.5 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Preparation of novel reticulated porous ceramics with hierarchical pore structures. <i>Journal of Alloys and Compounds</i> , 2019, 806, 596-602. | 5.5 | 10 |
| 20 | Effect of residual compressive stress on thermal shock resistance and microstructure of Al ₂ O ₃ -ZrO ₂ reticulated porous ceramics. <i>Materials Research Express</i> , 2019, 6, 105209. | 1.6 | 7 |
| 21 | A novel approach to process high-performance lightweight reticulated porous materials. <i>Construction and Building Materials</i> , 2019, 227, 116653. | 7.2 | 7 |
| 22 | Fabrication of mullite-corundum foamed ceramics for thermal insulation and effect of micro-pore-foaming agent on their properties. <i>Journal of Alloys and Compounds</i> , 2019, 785, 1030-1037. | 5.5 | 57 |
| 23 | Effect of the amount of andalusite addition on the properties of lightweight porous reticulated materials. <i>Construction and Building Materials</i> , 2019, 213, 257-264. | 7.2 | 10 |
| 24 | Preparation and characterization of eco-friendly and low-cost mullite-corundum foamed ceramics with low thermal conductivity. <i>Ceramics International</i> , 2019, 45, 13203-13209. | 4.8 | 20 |
| 25 | Micro-Porosity and Properties of Light-Weight Insulation Refractories Based on Calcined Flint Clay. <i>Transactions of the Indian Ceramic Society</i> , 2019, 78, 7-12. | 1.0 | 7 |
| 26 | Novel method of fabricating ultra-light aluminum borate foams with hierarchical pore structure. <i>Materials Letters</i> , 2019, 243, 92-95. | 2.6 | 11 |
| 27 | Optimization of the microstructure and properties of Al ₂ O ₃ -ZrO ₂ reticulated porous ceramics via in-situ synthesis of mullite whiskers and flowing-liquid phase. <i>Materials Letters</i> , 2019, 243, 66-68. | 2.6 | 22 |
| 28 | Effects of different kinds of sillimanite minerals on the properties of mullite ceramic foams. <i>Materials Research Express</i> , 2019, 6, 125203. | 1.6 | 2 |
| 29 | Optimization of the corrosion behavior of mullite-SiC castable against alkali vapor via coating high temperature glaze. <i>Journal of Alloys and Compounds</i> , 2019, 770, 945-951. | 5.5 | 6 |
| 30 | Improvement of the alkali corrosion resistance and mechanical properties of corundum castables by coating of Li ₂ O-Al ₂ O ₃ -SiO ₂ glaze. <i>Journal of the Australian Ceramic Society</i> , 2019, 55, 703-710. | 1.9 | 1 |
| 31 | A novel design of Al ₂ O ₃ -ZrO ₂ reticulated porous ceramics with hierarchical pore structures and excellent properties. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1877-1886. | 5.7 | 39 |
| 32 | The impact of alumina bubble particle size on the microstructure and physical properties of mullite castables. <i>Ceramics International</i> , 2019, 45, 1928-1939. | 4.8 | 9 |
| 33 | Effects of alumina bubble addition on the properties of mullite castables. <i>Journal of Alloys and Compounds</i> , 2018, 735, 327-337. | 5.5 | 26 |
| 34 | Toward excellent performance of Al ₂ O ₃ -ZrO ₂ reticulated porous ceramics: New insights based on residual stress. <i>Ceramics International</i> , 2018, 44, 21478-21485. | 4.8 | 33 |
| 35 | Porous alumina ceramics with enhanced mechanical and thermal insulation properties based on sol-treated rice husk. <i>Ceramics International</i> , 2018, 44, 22616-22621. | 4.8 | 25 |
| 36 | Novel applications of waste ceramics on the fabrication of foamed materials for exterior building walls insulation. <i>Construction and Building Materials</i> , 2018, 180, 291-297. | 7.2 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Effect of inorganic acid on the phase transformation of alumina. <i>Journal of Alloys and Compounds</i> , 2017, 699, 170-175. | 5.5 | 19 |
| 38 | Preparation of aggregates based on waste foundry sand: Reuse of calcined clay. <i>Applied Clay Science</i> , 2017, 143, 101-106. | 5.2 | 6 |
| 39 | Effects of nano-alumina content on the formation of interconnected pores in porous purging plug materials. <i>Ceramics International</i> , 2017, 43, 16722-16726. | 4.8 | 21 |
| 40 | Effect of particle size of fly ash on the properties of lightweight insulation materials. <i>Construction and Building Materials</i> , 2016, 123, 120-126. | 7.2 | 82 |
| 41 | Effects of microsilica addition on the microstructure and properties of alumina foams. <i>Ceramics International</i> , 2016, 42, 16401-16404. | 4.8 | 19 |
| 42 | Effects of pore structure on thermal conductivity and strength of alumina porous ceramics using carbon black as pore-forming agent. <i>Ceramics International</i> , 2016, 42, 8221-8228. | 4.8 | 151 |
| 43 | Effects of foaming temperature on the preparation and microstructure of alumina foams. <i>Materials Letters</i> , 2016, 165, 19-21. | 2.6 | 14 |
| 44 | Preparation and properties of porous ceramic aggregates using electrical insulators waste. <i>Ceramics International</i> , 2015, 41, 5807-5811. | 4.8 | 29 |
| 45 | Improved additive manufacturing of silicon carbide parts via pressureless electric field-assisted sintering. <i>International Journal of Applied Ceramic Technology</i> , 0, , . | 2.1 | 1 |