Junfeng Chen

List of Publications by Year
in descending order

30 papers	495 citations	687363 13 h-index	713466 21 g-index
30 all docs	30 docs citations	30 times ranked	191 citing authors

#	Article	IF	Citations
1	Influence of magnesium-aluminum hydrotalcite on the microstructure and mechanical properties of magnesia castables. Ceramics International, 2022, 48, 3923-3932.	4.8	8
2	Corrosion mechanism of cement-bonded Al2O3â€“MgAl2O4 pre-cast castables in contact with molten steel and slag. Ceramics International, 2022, 48, 5168-5173.	4.8	12
3	Influence of tricalcium aluminate on the microstructure evolution of CaO specimen during hydration. Journal of the European Ceramic Society, 2022, 42, 1796-1803.	5.7	5
4	In-situ synthesis of magnesium aluminate spinel â€“ Zirconium diboride composite powder in magnesium chloride melt. Ceramics International, 2022, 48, 11869-11871.	4.8	2
5	Chemical attack of Al2O3-MgAl2O4 refractory castables in the non-slag-tapping side of refining ladle. Ceramics International, 2022, 48, 16832-16838.	4.8	5
6	Reconstruction and hydration of hydrotalcite response to thermal activation temperature: Enhancement of properties for magnesia castables. Ceramics International, 2022, 48, 31245-31254.	4.8	2
7	High-temperature microstructural evolution of Ti3AlC2 ceramics in a graphite bed. Ceramics International, 2022, 48, 31406-31417.	4.8	2
8	Formation of liquidâ€phase isolation layer on the corroded interface of MgO/Al₂O₃â€SiCâ€ refractory and molten steel: Role of SiC. Journal of the American Ceramic Society, 2021, 104, 2366-2377.	3.8	20
9	Improved hydration resistance of CaO granules via solâ€processed metal oxide protective layers. Journal of the American Ceramic Society, 2021, 104, 4878-4890.	3.8	10
10	Microstructural and hydration resistance study of CaO with powder surface modification by Al coupling agents: Alkoxy type and phosphate type. Ceramics International, 2021, 47, 18699-18707.	4.8	14
11	Formation of ferrospinel layer at the corroded interface between Al₂O₃â€spinel refractory and molten steel in RH refining ladle. Journal of the American Ceramic Society, 2021, 104, 6044-6053.	3.8	15
12	One-Pot Synthesis of Alumina-Titanium Diboride Composite Powder at Low Temperature. Materials, 2021, 14, 4742.	2.9	2
13	Degradation behaviors of cement-free corundum-spinel castables in Ruhrstahl Heraeus refining ladle: Role of infiltrated steel. Ceramics International, 2021, 47, 32008-32014.	4.8	10
14	Corrosion mechanism of Cr2O3-Al2O3-ZrO2 refractories in a coal-water slurry gasifier: A post-mortem analysis. Corrosion Science, 2020, 163, 108250.	6.6	30
15	Preparation of CaO-MgO-ZrO2 refractory and its desulfurization effect on Ni-based alloy in vacuum induction melting (VIM). Journal of the Australian Ceramic Society, 2020, 56, 885-894.	1.9	8
16	Effect of titanium chelating compound on hydration resistance of CaO material. Journal of the American Ceramic Society, 2020, 103, 5302-5311.	3.8	5
17	Improvement in hydration resistance of CaO granules based on CaOâ€“TiO2, CaOâ€“ZrO2 and CaOâ€“V2O5 systems. Materials Chemistry and Physics, 2020, 254, 123413.	4.0	13
18	Degradation mechanism of Cr₂O₃â€Al₂O₃â€ZrO₂ refractories in a coalâ€water slurry gasifier: Role of stress cracks. Journal of the American Ceramic Society, 2020, 103, 3299-3310.	3.8	26

#	Article	IF	Citations
19	Oxidation behaviors of MgO-C refractories with different Si/SiC ratio in the 1100â€“1500â€Â°C range. Ceramics International, 2019, 45, 21099-21107.	4.8	38
20	Hydration Resistance of CaO Material Prepared by Ca(OH)2 Calcination with Chelating Compound. Materials, 2019, 12, 2325.	2.9	14
21	A low-cost approach to fabricate SiC nanosheets by reactive sintering from Si powders and graphite. Journal of Alloys and Compounds, 2019, 788, 345-351.	5.5	14
22	Elucidating the role of Ti3AlC2 in low carbon MgO-C refractories: Antioxidant or alternative carbon source?. Journal of the European Ceramic Society, 2018, 38, 3387-3394.	5.7	52
23	The microstructure evolution and mechanical properties of MgO-C refractories with recycling Si/SiC solid waste from photovoltaic industry. Ceramics International, 2018, 44, 16435-16442.	4.8	21
24	Corrosion and penetration behaviors of slag/steel on the corroded interfaces of Al2O3-C refractories: Role of Ti3AlC2. Corrosion Science, 2018, 143, 166-176.	6.6	61
25	Influence of carbon sources on nitriding process, microstructures and mechanical properties of Si3N4 bonded SiC refractories. Journal of the European Ceramic Society, 2017, 37, 1821-1829.	5.7	12
26	Synthesis of Si3N4/SiC reaction-bonded SiC refractories: The effects of Si/C molar ratio on microstructure and properties. Ceramics International, 2017, 43, 16518-16524.	4.8	13
27	Influence of Ti3AlC2 on microstructure and thermal mechanical properties of Al2O3-Ti3AlC2-C refractories. Ceramics International, 2016, 42, 14126-14134.	4.8	29
28	Effect of ferrosilicon additive and sintering condition on microstructural evolution and mechanical properties of reaction-bonded SiC refractories. Ceramics International, 2016, 42, 17650-17658.	4.8	15
29	Influence of Ti 3 AlC 2 on corrosion resistance and microstructure of Al 2 O 3 â€“Ti 3 AlC 2 â€“C refractories in contact with ladle slag. Journal of the European Ceramic Society, 2016, 36, 1505-1511.	5.7	37
30	Characteristics of CaZrO ₃ material prepared by in situ decomposition pore forming technology. International Journal of Applied Ceramic Technology, 0, , .	2.1	0