

Jens Fruhstorfer

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

342
citations

840585

11
h-index

839398

18
g-index

30
all docs

30
docs citations

30
times ranked

249
citing authors

#	ARTICLE	IF	CITATIONS
1	Erosion and corrosion of alumina refractory by ingot casting steels. Journal of the European Ceramic Society, 2016, 36, 1299-1306.	2.8	54
2	Refractories containing fused and sintered alumina aggregates: Investigations on processing, particle size distribution and particle morphology. Ceramics International, 2017, 43, 4252-4262.	2.3	25
3	Influence of in situ phase formation on properties of calcium zirconate refractories. Journal of the European Ceramic Society, 2017, 37, 305-313.	2.8	25
4	Dry ball mixing and deagglomeration of alumina and zirconia composite fine powders using a bimodal ball size distribution. Ceramics International, 2014, 40, 15293-15302.	2.3	20
5	Influence of particle size distributions on the density and density gradients in uniaxial compacts. Ceramics International, 2017, 43, 13175-13184.	2.3	19
6	Microstructure and strength of fused high alumina materials with 2.5wt% zirconia and 2.5wt% titania additions for refractory applications. Ceramics International, 2015, 41, 10644-10653.	2.3	18
7	Corrosion of Carbon Free and Bonded Refractories for Application in Steel Ingot Casting. Steel Research International, 2016, 87, 1014-1023.	1.0	17
8	Refractory castables for titanium metallurgy based on calcium zirconate. Materials and Design, 2018, 148, 78-86.	3.3	17
9	Cyclic cold isostatic pressing and improved particle packing of coarse grained oxide ceramics for refractory applications. Ceramics International, 2018, 44, 9027-9036.	2.3	16
10	Continuous gap-graded particle packing designs. Materials Today Communications, 2019, 20, 100550.	0.9	12
11	Interface Analyses Between a Case-Hardened Ingot Casting Steel and Carbon-Containing and Carbon-Free Refractories. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1499-1521.	1.0	11
12	How the coarse fraction influences the microstructure and the effective thermal conductivity of alumina castables – An experimental and numerical study. Journal of the European Ceramic Society, 2018, 38, 303-312.	2.8	11
13	Influence of the measurement method and sample dimensions on the Young's modulus of open porous alumina foam structures. Ceramics International, 2019, 45, 5987-5995.	2.3	11
14	Carbon-bonded alumina foam filters produced by centrifugation: A route towards improved homogeneity. Ceramics International, 2018, 44, 13832-13840.	2.3	10
15	Particle packings minimizing density gradients of coarse-grained compacts. Journal of the European Ceramic Society, 2019, 39, 3264-3276.	2.8	10
16	Upright die pressing of refractory hollowware for steel ingot casting with reduced clay content. Ceramics International, 2016, 42, 3219-3228.	2.3	9
17	On the nonlinear behavior of Young's modulus of carbon-bonded alumina at high temperatures. Journal of the American Ceramic Society, 2018, 101, 4171-4183.	1.9	9
18	Characterization of Nonmetallic Inclusions in 18CrNiMo7-6. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 337-356.	1.0	7

#	ARTICLE	IF	CITATIONS
19	Microstructure and transmittance of silica gels for application as transparent heat insulation materials. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 602-616.	1.1	5
20	Activated reaction synthesis of silicon oxynitride from silica and silicon nitride. <i>Ceramics International</i> , 2018, 44, 8467-8475.	2.3	5
21	Influence of the particle size distribution of coarse-grained refractories on the thermal shock performance. <i>Journal of the Australian Ceramic Society</i> , 2021, 57, 899-909.	1.1	5
22	Investigation of transmittance and thermal conductivity properties of silica gels for application as transparent heat insulation materials. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 77, 315-324.	1.1	4
23	The influence of nano scaled additions on the Young's modulus of carbon-bonded alumina at temperatures up to 1450 Å°C. <i>Ceramics International</i> , 2016, 42, 15718-15724.	2.3	4
24	Interactions between Carbon-Bonded Alumina Filters and Molten Steel: Impact of a Titania-Doped Filter Coating. <i>Advanced Engineering Materials</i> , 2020, 22, 1900647.	1.6	4
25	Crack propagation behaviour of carbon free and carbon bonded alumina based filter materials. <i>Ceramics International</i> , 2020, 46, 11198-11207.	2.3	4
26	ParSD - Tool to design and analyze particle size distributions. <i>SoftwareX</i> , 2021, 15, 100753.	1.2	3
27	Graphene-Reinforced Carbon-Bonded Coarse-Grained Refractories. <i>Materials</i> , 2022, 15, 186.	1.3	3
28	Corrosion of Carbon Free and Bonded Refractories for Application in Steel Ingot Casting: An Approach for Improving Steel Quality. <i>Materials Science Forum</i> , 2019, 959, 166-176.	0.3	2
29	Influence of Particle Size Distributions with Maximum Grain Size of 1 mm on the Density, Density Gradients and Strength of Uniaxially Die-pressed Refractories. <i>InterCeram: International Ceramic Review</i> , 2017, 66, 41-46.	0.2	1
30	Focused Ion Beam Parameters for the Preparation of Oxidic Ceramic Materials. <i>Advanced Engineering Materials</i> , 2021, 23, 2001235.	1.6	1