

# Jens Fruhstorfer

## List of Publications by Year in descending order

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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	Graphene-Reinforced Carbon-Bonded Coarse-Grained Refractories. <i>Materials</i> , 2022, 15, 186.	1.3	3
2	Focused Ion Beam Parameters for the Preparation of Oxidic Ceramic Materials. <i>Advanced Engineering Materials</i> , 2021, 23, 2001235.	1.6	1
3	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
4	ParSD " Tool to design and analyze particle size distributions. <i>SoftwareX</i> , 2021, 15, 100753.	1.2	3
5	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
6	Crack propagation behaviour of carbon free and carbon bonded alumina based filter materials. <i>Ceramics International</i> , 2020, 46, 11198-11207.	2.3	4
7	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
8	Continuous gap-graded particle packing designs. <i>Materials Today Communications</i> , 2019, 20, 100550.	0.9	12
9	Particle packings minimizing density gradients of coarse-grained compacts. <i>Journal of the European Ceramic Society</i> , 2019, 39, 3264-3276.	2.8	10
10	Influence of the measurement method and sample dimensions on the Young's modulus of open porous alumina foam structures. <i>Ceramics International</i> , 2019, 45, 5987-5995.	2.3	11
11	Characterization of Nonmetallic Inclusions in 18CrNiMo7-6. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 337-356.	1.0	7
12	On the nonlinear behavior of Young's modulus of carbon-bonded alumina at high temperatures. <i>Journal of the American Ceramic Society</i> , 2018, 101, 4171-4183.	1.9	9
13	Refractory castables for titanium metallurgy based on calcium zirconate. <i>Materials and Design</i> , 2018, 148, 78-86.	3.3	17
14	Activated reaction synthesis of silicon oxynitride from silica and silicon nitride. <i>Ceramics International</i> , 2018, 44, 8467-8475.	2.3	5
15	Carbon-bonded alumina foam filters produced by centrifugation: A route towards improved homogeneity. <i>Ceramics International</i> , 2018, 44, 13832-13840.	2.3	10
16	Cyclic cold isostatic pressing and improved particle packing of coarse grained oxide ceramics for refractory applications. <i>Ceramics International</i> , 2018, 44, 9027-9036.	2.3	16
17	Interface Analyses Between a Case-Hardened Ingot Casting Steel and Carbon-Containing and Carbon-Free Refractories. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 1499-1521.	1.0	11
18	How the coarse fraction influences the microstructure and the effective thermal conductivity of alumina castables " An experimental and numerical study. <i>Journal of the European Ceramic Society</i> , 2018, 38, 303-312.	2.8	11

#	ARTICLE	IF	CITATIONS
19	Refractories containing fused and sintered alumina aggregates: Investigations on processing, particle size distribution and particle morphology. <i>Ceramics International</i> , 2017, 43, 4252-4262.	2.3	25
20	Influence of particle size distributions on the density and density gradients in uniaxial compacts. <i>Ceramics International</i> , 2017, 43, 13175-13184.	2.3	19
21	Influence of in situ phase formation on properties of calcium zirconate refractories. <i>Journal of the European Ceramic Society</i> , 2017, 37, 305-313.	2.8	25
22	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
23	Corrosion of Carbon Free and Bonded Refractories for Application in Steel Ingot Casting. <i>Steel Research International</i> , 2016, 87, 1014-1023.	1.0	17
24	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
25	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
26	Upright die pressing of refractory hollowware for steel ingot casting with reduced clay content. <i>Ceramics International</i> , 2016, 42, 3219-3228.	2.3	9
27	Erosion and corrosion of alumina refractory by ingot casting steels. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1299-1306.	2.8	54
28	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
29	Microstructure and strength of fused high alumina materials with 2.5wt% zirconia and 2.5wt% titania additions for refractory applications. <i>Ceramics International</i> , 2015, 41, 10644-10653.	2.3	18
30	Dry ball mixing and deagglomeration of alumina and zirconia composite fine powders using a bimodal ball size distribution. <i>Ceramics International</i> , 2014, 40, 15293-15302.	2.3	20