Karel DvoÅÃ¡k

List of Publications by Year
in descending order

57	334	1170033 9	1113639 15
papers	citations	h-index	g-index

58	58	58	381
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A method to prepare a high-strength building material from press-formed phosphogypsum purified with waste zeolite. Journal of Building Engineering, 2021, 34, 101919.	1.6	11
2	Wetting Behavior of Wear-Resistant WC-Co-Cr Cermet Coatings Produced by HVOF: The Role of Chemical Composition and Surface Roughness. Journal of Thermal Spray Technology, 2021, 30, 285-303.	1.6	8
3	Development and Properties of New Mullite Based Refractory Grog. Materials, 2021, 14, 779.	1.3	10
4	Composite Binder Containing Industrial By-Products (FCCCw and PSw) and Nano SiO2. Materials, 2021, 14, 1604.	1.3	5
5	Determining Johnson-Cook Constitutive Equation for Low-Carbon Steel via Taylor Anvil Test. Materials, 2021, 14, 4821.	1.3	1
6	Development of Crystallinity of Triclinic Polymorph of Tricalcium Silicate. Materials, 2020, 13, 3734.	1.3	4
7	Effect of Imposed Shear Strain on Steel Ring Surfaces during Milling in High-Speed Disintegrator. Materials, 2020, 13, 2234.	1.3	4
8	The influence of firing parameters on the crystallinity of ternesite. Journal of Crystal Growth, 2020, 542, 125691.	0.7	4
9	Design of tailored biodegradable implants: The effect of voltage on electrodeposited calcium phosphate coatings on pure magnesium. Journal of the American Ceramic Society, 2019, 102, 123-135.	1.9	23
10	Thermal Behavior of an Intumescent Alkaline Aluminosilicate Composite Material for Fire Protection of Structural Elements. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	13
11	Heat treatment induced phase transformations in zirconia and yttria-stabilized zirconia monolithic aerogels. Journal of Supercritical Fluids, 2019, 149, 54-63.	1.6	24
12	Rotary swaged laminated Cu-Al composites: Effect of structure on residual stress and mechanical and electric properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 742, 743-750.	2.6	45
13	the role of different high energy ball milling conditions of molybdenum powder on the resulting particles size and morphology. , 2019, , .		0
14	Strength and fracture mechanism of iron reinforced tricalcium phosphate cermet fabricated by spark plasma sintering. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 81, 16-25.	1.5	11
15	Characterization of inner structure of limestone by X-ray computed sub-micron tomography. Construction and Building Materials, 2018, 174, 693-700.	3.2	6
16	Effect of the Firing Process to the Lime Crystallinity. Solid State Phenomena, 2018, 276, 89-94.	0.3	0
17	The Effect of the Wear of Rotor Pins on Grinding Efficiency in a High-speed Disintegrator. Medziagotyra, 2018, 24, .	0.1	3
18	Wear of grinding rotors with thermally-sprayed coatings in a high-speed mill. Wear, 2018, 412-413, 49-59.	1.5	5

#	Article	IF	Citations
19	Metal matrix to ceramic matrix transition via feedstock processing of SPS titanium composites alloyed with high silicone content. Journal of Alloys and Compounds, 2018, 764, 776-788.	2.8	20
20	Microwave pyrolysis full-scale application on sewage sludge. , 2018, 112, 161-170.		7
21	Optimization of Molybdenum Powder Milling Parameters. Metal Working and Material Science, 2018, 20, 109-122.	0.0	2
22	The Improvement of the Pozzolanic Properties of Recycled Glass during the Production of Blended Portland Cements. Procedia Engineering, 2017, 180, 1229-1236.	1.2	14
23	Fired Hydraulic Binder Based on Fluidized Combustion Fly Ash. Procedia Engineering, 2017, 172, 319-324.	1.2	3
24	Methodology of Sample Selection for Study of Limestone Decarbonation. Procedia Engineering, 2017, 172, 157-164.	1.2	4
25	Dependence of Residual CO2 of Limestones on Apparent Density. Procedia Engineering, 2017, 172, 232-238.	1.2	0
26	The FBC Ash as a Hydraulic Ingredient of Hydraulic Lime. Procedia Engineering, 2017, 172, 264-269.	1.2	2
27	Isothermal oxidation behavior of experimental Tiâ^'Alâ^'Si alloys at 700ÂÂ°C in air. Journal of Alloys and Compounds, 2017, 694, 1098-1108.	2.8	20
28	Optimizing the reactivity of a raw-material mixture for Portland clinker firing. Materiali in Tehnologije, 2017, 51, 219-223.	0.3	4
29	Thermodynamic Stability of Ettringite Formed by Hydration of Yeâ€™elimite Clinker. Advances in Materials Science and Engineering, 2016, 2016, 1-7.	1.0	19
30	Spark Plasma Sintering of Load-Bearing Ironâ€“Carbon Nanotube-Tricalcium Phosphate CerMets for Orthopaedic Applications. Jom, 2016, 68, 1134-1142.	0.9	8
31	Comparison of Separate and Co-grinding of the Blended Cements with the Pozzolanic Component. Procedia Engineering, 2016, 151, 66-72.	1.2	2
32	Method for the Accelerated Testing of the Durability of a Construction Binder using the Arrhenius Approach. Slovak Journal of Civil Engineering, 2016, 24, 24-33.	0.2	2
33	The effect of high-speed grinding technology on the properties of fly ash. Materiali in Tehnologije, 2016, 50, 683-687.	0.3	7
34	Evaluation of the grindability of recycled glass in the production of blended cements. Materiali in Tehnologije, 2016, 50, 729-734.	0.3	6
35	Influence of Grinding Processes on Gypsum Microstructure. Advanced Materials Research, 2015, 1124, 151-155.	0.3	0
36	Production of Alpha Plaster Modification by Pressureless Method. Advanced Materials Research, 2015, 1100, 64-67.	0.3	0

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37	Proposal and Testing Masonry Cement. Advanced Materials Research, 2014, 897, 13-16.	0.3	0
38	Pozzolanic Aktivity Increase of Recycled Glass. Advanced Materials Research, 2014, 897, 125-128.	0.3	1
39	Influence of Different Grinding Types on Granulometry of Cement Grains. Advanced Materials Research, 2014, 897, 34-38.	0.3	1
40	Efficiency of Sulphate Paste Liquefaction. Advanced Materials Research, 2014, 897, 57-60.	0.3	0
41	Influence of Grinding Î±-Gypsum on its Final Property. Advanced Materials Research, 2014, 897, 61-64.	0.3	1
42	Alternative Preparation of Sulphated Binders from Secondary Raw-Material Resources. Advanced Materials Research, 2013, 838-841, 2338-2341.	0.3	0
43	Possibilities of Alpha Gypsum Preparation in Chloride Salt Solutions. Advanced Materials Research, 2012, 598, 310-313.	0.3	3
44	Commercially Used Sulphate Binders Based on Anhydrite. Advanced Materials Research, 0, 598, 314-317.	0.3	6
45	Gypsum Dehydration to Alpha-Gypsum in Mixed Chloride Solutions. Advanced Materials Research, 0, 457-458, 391-394.	0.3	6
46	Study of Gypsum Dehydration Time in CaCl₂ Solution. Advanced Materials Research, 0, 818, 64-67.	0.3	8
47	Synthetic Preparation of Ettringite. Advanced Materials Research, 0, 1000, 55-58.	0.3	5
48	Monitoring the Influence of Dehydrating Solutions for the Production of Alpha Gypsum. Advanced Materials Research, 0, 1000, 51-54.	0.3	1
49	Utilisation of Fluidised Fly Ash for Reduction of CO₂ Emissions at Portland Cement Production. Advanced Materials Research, 0, 1054, 168-172.	0.3	4
50	Influence of Dehydrating Solution Types on Technological Properties of Alpha-Hemihydrate. Advanced Materials Research, 0, 1065-1069, 1907-1910.	0.3	0
51	Effect of Limestone Origin on the CaCO₃ Decomposition Process and Subsequent Crystallization Process of CaO. Solid State Phenomena, 0, 321, 45-50.	0.3	1
52	Changes in Crystallite Size of Tricalcium Silicate during the Laboratory Grinding. Solid State Phenomena, 0, 321, 23-27.	0.3	0
53	Properties Affecting the Reactivity of Lime. Solid State Phenomena, 0, 325, 92-97.	0.3	0
54	Decomposition of Crystalline Limestones during the Burning Process. Solid State Phenomena, 0, 325, 98-103.	0.3	0

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55	Monitoring of the Effect of Grinding Raw Material Mixture and Soaking on the Formation of Monoclinic Phases of Alite. Solid State Phenomena, 0, 325, 71-76.	0.3	0
56	The influence of milling technology on the crystallite size and granulometry of tricalcium aluminate. , 0, , .		0
57	Microstructure of Mo-La₂O₃ Composite Powder Prepared Using Two Different High Energy Ball Milling Systems. Solid State Phenomena, 0, 334, 109-114.	0.3	0