

Petr Louda

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

509
citations

687363

13
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752698

20
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38
all docs

38
docs citations

38
times ranked

345
citing authors

#	ARTICLE	IF	CITATIONS
1	Elevated temperature properties of basalt microfibril filled geopolymer composites. <i>Construction and Building Materials</i> , 2018, 163, 850-860.	7.2	70
2	Study on Temperature-Dependent Properties and Fire Resistance of Metakaolin-Based Geopolymer Foams. <i>Polymers</i> , 2020, 12, 2994.	4.5	31
3	Mechanical properties of geopolymer foam at high temperature. <i>Science and Engineering of Composite Materials</i> , 2020, 27, 129-138.	1.4	26
4	The Influence of the Material Structure on the Mechanical Properties of Geopolymer Composites Reinforced with Short Fibers Obtained with Additive Technologies. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2023.	4.1	26
5	Fire-Resistant Sandwich-Structured Composite Material Based on Alternative Materials and Its Physical and Mechanical Properties. <i>Materials</i> , 2019, 12, 1432.	2.9	23
6	Thermophysiological comfort of zinc oxide nanoparticles coated woven fabrics. <i>Scientific Reports</i> , 2020, 10, 21080.	3.3	23
7	Low-Density Geopolymer Composites for the Construction Industry. <i>Polymers</i> , 2022, 14, 304.	4.5	21
8	Flexural Behavior of Carbon Textile-Reinforced Geopolymer Composite Thin Plate. <i>Fibers</i> , 2018, 6, 87.	4.0	20
9	Investigation on Flexural Behavior of Geopolymer-Based Carbon Textile/Basalt Fiber Hybrid Composite. <i>Polymers</i> , 2021, 13, 751.	4.5	20
10	The Fabrication of Geopolymer Foam Composites Incorporating Coke Dust Waste. <i>Processes</i> , 2020, 8, 1052.	2.8	18
11	Impact of Flax and Basalt Fibre Reinforcement on Selected Properties of Geopolymer Composites. <i>Sustainability</i> , 2020, 12, 118.	3.2	17
12	The application potential of SiO ₂ , TiO ₂ or Ag nanoparticles as fillers in machining process fluids. <i>Journal of Cleaner Production</i> , 2017, 142, 2237-2243.	9.3	16
13	Mechanical and Thermal Properties of Geopolymer Foams (GFs) Doped with By-Products of the Secondary Aluminum Industry. <i>Polymers</i> , 2022, 14, 703.	4.5	15
14	Composites Base on Geopolymer Matrices: Preliminary Fabrication, Mechanical Properties and Future Applications. <i>Advanced Materials Research</i> , 0, 55-57, 477-480.	0.3	14
15	Mechanical Properties of Basalt Fiber Reinforced Fly Ash-Based Geopolymer Composites. <i>KnE Engineering</i> , 0, , .	0.1	14
16	Woven Textiles Coated with Zinc Oxide Nanoparticles and Their Thermophysiological Comfort Properties. <i>Journal of Natural Fibers</i> , 2022, 19, 4718-4730.	3.1	13
17	Study of surface morphology, structure, mechanical and tribological properties of an AlSiN coating obtained by the cathodic arc deposition method. <i>Superlattices and Microstructures</i> , 2017, 109, 402-413.	3.1	12
18	Composite Performance Evaluation of Basalt Textile-Reinforced Geopolymer Mortar. <i>Fibers</i> , 2019, 7, 63.	4.0	11

#	ARTICLE	IF	CITATIONS
19	An Acoustic Emission Method for Assessing the Degree of Degradation of Mechanical Properties and Residual Life of Metal Structures under Complex Dynamic Deformation Stresses. <i>Materials</i> , 2021, 14, 2090.	2.9	11
20	Research of Curing Time and Temperature-Dependent Strengths and Fire Resistance of Geopolymer Foam Coated on an Aluminum Plate. <i>Coatings</i> , 2021, 11, 87.	2.6	11
21	Nanoadditives SiO ₂ and TiO ₂ in Process Fluids. <i>Manufacturing Technology</i> , 2015, 15, 502-508.	1.4	11
22	A Kalman Filter-Based Algorithm for Measuring the Parameters of Moving Objects. <i>Measurement Science Review</i> , 2015, 15, 19-26.	1.0	10
23	Active Carbon-Based Nanomaterials in Food Packaging. <i>Coatings</i> , 2021, 11, 161.	2.6	10
24	Permeable Water-Resistant Heat Insulation Panel Based on Recycled Materials and Its Physical and Mechanical Properties. <i>Molecules</i> , 2019, 24, 3300.	3.8	9
25	Thermophysical properties of woven fabrics reinforced geopolymer composites. <i>World Journal of Engineering</i> , 2013, 10, 139-144.	1.6	8
26	Water Absorption Properties of Geopolymer Foam after Being Impregnated with Hydrophobic Agents. <i>Materials</i> , 2019, 12, 4162.	2.9	7
27	Fire Resistance of Geopolymer Foams Layered on Polystyrene Boards. <i>Polymers</i> , 2022, 14, 1945.	4.5	7
28	Theoretical and experimental modal analysis of the cylinder unit filled with PUR foam. <i>Eksploatacja i Niezawodnosc</i> , 2016, 18, 428-435.	2.0	6
29	CREATION OF A 3D STRUCTURE BASED ON THE HIGH STRENGTH METALLURGICAL GRAPHENE [®] . <i>Surface Review and Letters</i> , 2019, 26, 1850206.	1.1	5
30	Experimental Investigation of Four-Point Flexural Behavior of Textile Reinforcement in Geopolymer Mortar. <i>International Journal of Engineering and Technology</i> , 0, , 10-15.	0.2	5
31	The Theory of Similarity and Analysis of Dimensions for Determining the State of Operation of Structures under Difficult Loading Conditions. <i>Materials</i> , 2022, 15, 1191.	2.9	5
32	The Influence of Suspension Containing Nanodiamonds on the Morphology of the Tooth Tissue Surface in Atomic Force Microscope Observations. <i>BioMed Research International</i> , 2018, 2018, 1-9.	1.9	4
33	Evaluation of Mechanical Properties of Composite Geopolymer Blocks Reinforced with Basalt Fibres. <i>Manufacturing Technology</i> , 2018, 18, 861-865.	1.4	4
34	Improving the Tribological and Mechanical Properties of an Aluminium Alloy by Deposition of AlSiN and AlCrSiN Coatings. <i>Manufacturing Technology</i> , 2017, 17, 824-830.	1.4	3
35	Experimental and Theoretical Study of Plastic Deformation of Epoxy Coatings on Metal Substrates Using the Acoustic Emission Method. <i>Materials</i> , 2022, 15, 3791.	2.9	3
36	Analysis of the Generation of Vibration Signals under Uniaxial Loading of Materials Using the Coherent Properties of Laser Radiation. <i>Materials</i> , 2020, 13, 2046.	2.9	0