

Barbara Kucharczyková

List of Publications by Year in descending order

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papers

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citations

933447

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74
all docs

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docs citations

74
times ranked

244
citing authors

#	ARTICLE	IF	CITATIONS
1	The porous aggregate pre-soaking in relation to the freeze-thaw resistance of lightweight aggregate concrete. <i>Construction and Building Materials</i> , 2012, 30, 761-766.	7.2	28
2	Freeze-thaw resistance of concrete with porous aggregate. <i>Procedia Engineering</i> , 2010, 2, 521-529.	1.2	24
3	Determination and evaluation of the air permeability coefficient using Torrent Permeability Tester. <i>Russian Journal of Nondestructive Testing</i> , 2010, 46, 226-233.	0.9	23
4	Using Acoustic Emission Methods to Monitor Cement Composites during Setting and Hardening. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 451.	2.5	20
5	Influence of freeze-thaw cycles on fracture parameters values of lightweight concrete. <i>Procedia Engineering</i> , 2010, 2, 959-966.	1.2	17
6	The analysis of acoustic emission signals detected during the loading of cement-based materials. <i>Engineering Failure Analysis</i> , 2019, 99, 18-25.	4.0	16
7	Development of the Elastic Modulus of Concrete under Different Curing Conditions. <i>Procedia Engineering</i> , 2017, 195, 96-101.	1.2	14
8	Experimental Analysis on Shrinkage and Swelling in Ordinary Concrete. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-11.	1.8	12
9	Experimental analysis of the influence of concrete curing on the development of its elastic modulus over time. <i>Materiali in Tehnologije</i> , 2017, 51, 657-665.	0.5	11
10	Crack initiation of selected geopolymer mortars with hemp fibers. <i>Procedia Structural Integrity</i> , 2018, 13, 578-583.	0.8	10
11	Experimental-computational determination of mechanical fracture. <i>Life-cycle of Civil Engineering Systems</i> , 2014, , 801-807.	0.1	10
12	Complex Evaluation of Fatigue Tests Results of Plain C30/37 and C45/55 Class Concrete Specimens. <i>Key Engineering Materials</i> , 0, 592-593, 801-804.	0.4	8
13	Destructive and non-destructive assessment of the frost resistance of concrete with different aggregate. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 379, 012022.	0.6	8
14	Evaluation of Shrinkage, Mass Changes and Fracture Properties of Fine-aggregate Cement-based Composites during Ageing. <i>Procedia Engineering</i> , 2017, 190, 357-364.	1.2	7
15	Mechanical Fracture and Fatigue Characteristics of Fine-Grained Composite Based on Sodium Hydroxide-Activated Slag Cured under High Relative Humidity. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 259.	2.5	7
16	Comprehensive Testing Techniques for the Measurement of Shrinkage and Structural Changes of Fine-Grained Cement-Based Composites during Ageing. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-10.	1.8	6
17	Monitoring of the Setting and early Hardening with Ultrasonic Waves. <i>Key Engineering Materials</i> , 2018, 776, 51-54.	0.4	6
18	The Acoustic Emission Parameters Obtained during Three-point Bending Test on Thermal-stressed Concrete Specimens. <i>Procedia Engineering</i> , 2017, 190, 111-117.	1.2	4

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19	Comparison of Measurements Methods Intended to Determination of the Shrinkage Development in Polymer Cement Mortars. <i>Procedia Engineering</i> , 2017, 195, 17-23.	1.2	4
20	Mechanical Fracture Parameters of Extruded Polystyrene. <i>Key Engineering Materials</i> , 2018, 776, 160-163.	0.4	4
21	Shrinkage of Fine-Grained Composites Based on Alkali-Activated Slag. <i>Key Engineering Materials</i> , 2018, 761, 7-10.	0.4	4
22	Influence of Interfacial Transition Zone on Local and Overall Fracture Response of Cementitious Composites. <i>Key Engineering Materials</i> , 0, 784, 97-102.	0.4	4
23	Fracture Response of Fine-Grained Cement-Based Composite Specimens with Special Inclusions. <i>Solid State Phenomena</i> , 0, 292, 63-68.	0.3	4
24	Ultrasonic NDT determination of initial and final setting time of cement paste. <i>MATEC Web of Conferences</i> , 2020, 310, 00027.	0.2	4
25	Williams expansion utilized for assessment of crack behaviour under mixed-mode loading in alkali-activated fine-grained composite. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1151-1161.	3.4	4
26	Measurement and evaluation proposal of early age shrinkage of cement composites using shrinkage-cone. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 379, 012038.	0.6	3
27	Modelling of interfacial transition zone effect on resistance to crack propagation in fine-grained cement-based composites. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 211-219.	0.9	3
28	Advanced Evaluation of the Freeze-Thaw Damage of Concrete Based on the Fracture Tests. <i>Materials</i> , 2021, 14, 6378.	2.9	3
29	Fracture properties of concrete specimens made from alkali activated binders. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 236, 012068.	0.6	2
30	Early-age behaviour of cement-based self-leveling flooring compounds. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 385, 012032.	0.6	2
31	Influence of Coarse Aggregate Grain Size on Frost Resistance of Concrete. <i>Key Engineering Materials</i> , 2018, 776, 37-40.	0.4	2
32	Cost-Effective High-Performance Concrete: Experimental Analysis on Shrinkage. <i>Materials</i> , 2019, 12, 2730.	2.9	2
33	Influence of curing conditions on mechanical and fracture properties of alkali activated slag concrete. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 660, 012004.	0.6	2
34	Shrinkage of the alkali-activated slag mortars containing alternative activator. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 660, 012001.	0.6	2
35	Influence of the Poisson's Ratio on the Value of the Dynamic Modulus of Elasticity of Cement Materials in the Early Stage of Ageing. <i>Solid State Phenomena</i> , 0, 292, 50-55.	0.3	2
36	Comprehensive fracture tests of concrete for the determination of mechanical fracture parameters. <i>Structural Concrete</i> , 2022, 23, 505-520.	3.1	2

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37	The influence of fibre pre-treatment on the mechanical properties of the geopolymer composites. MATEC Web of Conferences, 2020, 322, 01012.	0.2	2
38	Effect of petrographic composition and chemistry of aggregate on the local and general fracture response of cementitious composites. Frattura Ed Integrita Strutturale, 2022, 16, 13-29.	0.9	2
39	Effect of Cement Dosage on Selected Mechanical Fracture Parameters of Concretes. Applied Mechanics and Materials, 0, 617, 239-242.	0.2	1
40	Alkali Activated Binders Based Concrete Specimens: Length Change and Fracture Tests. Solid State Phenomena, 0, 258, 623-626.	0.3	1
41	Development of shrinkage and fracture parameters in selected fine-grained cement-based composites. MATEC Web of Conferences, 2017, 107, 00036.	0.2	1
42	Experimental assessment of the influence of multiple cyclic loading on the dynamic modulus of elasticity of concrete. MATEC Web of Conferences, 2017, 107, 00038.	0.2	1
43	Observation of the Development of the Elastic Modulus and Strength in a Polymer-Cement Mortar Using the Acoustic Emission Method. Solid State Phenomena, 2018, 272, 76-81.	0.3	1
44	Fracture parameters of fine-grained composites based on the alkali-activated slag. IOP Conference Series: Materials Science and Engineering, 2018, 379, 012018.	0.6	1
45	The Application of Acoustic Emission Technique to Monitor the Early Setting Process of Cement Pastes. MATEC Web of Conferences, 2019, 303, 04002.	0.2	1
46	Experimental Determination of Early Shrinkage of Alkali-Activated Slag. Solid State Phenomena, 0, 292, 114-119.	0.3	1
47	Determination of the static modulus of elasticity of cement mortars in the early stage of ageing. MATEC Web of Conferences, 2020, 310, 00029.	0.2	1
48	The Measurement of Shrinkage: Influence of Specimen Size. Key Engineering Materials, 0, 846, 197-201.	0.4	1
49	Multi-parameter fracture mechanics. Frattura Ed Integrita Strutturale, 2019, 13, 65-73.	0.9	1
50	THE INFLUENCE OF A SHRINKAGE REDUCING ADMIXTURE ON THE LONG-TERM DEVELOPMENT OF DYNAMIC PROPERTIES IN ALKALI-ACTIVATED SLAG. Acta Polytechnica CTU Proceedings, 0, 22, 1-6.	0.3	1
51	Numerical Analysis of Shrinkage Process Based on Experimental Data. ACI Materials Journal, 2020, 117, .	0.2	1
52	Response of conservation measures from small cultivated watersheds, concerning runoff and erosion, under the impact of extreme rainfall events. IOP Conference Series: Earth and Environmental Science, 2008, 4, 012041.	0.3	0
53	Mechanical Fracture Parameters of Mortars Modified by Burnt Clays. Advanced Materials Research, 0, 969, 241-244.	0.3	0
54	Pilot Study of the Effect of Admixtures in Fine-Grained Cement-Based Composites on Volume Changes and Fracture Parameters. Advanced Materials Research, 0, 969, 294-297.	0.3	0

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55	Nonlinear Elastic Wave Spectroscopy with MLS Perturbation Signal. <i>Procedia Engineering</i> , 2016, 151, 306-312.	1.2	0
56	The use of the acoustic emission method for the monitoring of changes in the internal structure of polymer-cement mortars when testing the static compressive modulus of elasticity. <i>MATEC Web of Conferences</i> , 2017, 107, 00037.	0.2	0
57	<i>In Situ</i> Determination of the Elastic Modulus of Concrete by Means of Ultrasonic Pulse Method. <i>Solid State Phenomena</i> , 2018, 272, 70-75.	0.3	0
58	Possibilities of Experimental Determinations of the Modulus of Elasticity in the early Stage of Ageing of Cement Composites. <i>Solid State Phenomena</i> , 2018, 276, 35-40.	0.3	0
59	Experimental Analysis of the Development of Compressive Strength, Modulus of Elasticity and Acoustic Emission Parameters of Alkali-Activated Composites. <i>Key Engineering Materials</i> , 0, 760, 266-271.	0.4	0
60	Repeatability and Reproducibility of Results of Fresh Concrete Testing. <i>Solid State Phenomena</i> , 2018, 272, 15-20.	0.3	0
61	Influence of a Shrinkage-Reducing Admixture on the Damage to the Internal Structure of Alkali-Activated Composites during Testing of the Modulus of Elasticity. <i>Solid State Phenomena</i> , 2018, 272, 28-33.	0.3	0
62	The experimental comparison of parameters signals of acoustic emission during destructive test on composites based on cement. <i>MATEC Web of Conferences</i> , 2018, 219, 03005.	0.2	0
63	Repeatability and Reproducibility of the Static Elastic Modulus of Concrete Measurement. <i>Solid State Phenomena</i> , 2018, 272, 214-219.	0.3	0
64	Experimental Determination of how the Static Modulus of Elasticity is Influenced by the Value of the Upper Loading Stress. <i>Solid State Phenomena</i> , 2018, 272, 64-69.	0.3	0
65	Shrinkage in Cementitious Self-Levelling Floor Compounds. <i>Solid State Phenomena</i> , 0, 292, 23-28.	0.3	0
66	Experimental determination of the influence of additives on shrinkage in self-compacting concrete. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 549, 012009.	0.6	0
67	EXPERIMENTAL ANALYSIS FOCUSED ON THE MATERIAL CHARACTERISTICS OF THE CEMENT-BASED POLYMER-MODIFIED MORTARS. <i>Acta Polytechnica CTU Proceedings</i> , 2019, 22, 52-56.	0.3	0
68	Experimental Assessment of the Influence of Multiple Cyclic Loading on Selected Properties of Lightweight Concrete. <i>Solid State Phenomena</i> , 0, 292, 45-49.	0.3	0
69	Non-traditional Approach to the Evaluation of the Freeze-thaw Resistance of Concrete based on the Fracture Tests. <i>MATEC Web of Conferences</i> , 2020, 322, 01015.	0.2	0
70	Mechanical fracture characterization of alkali-activated slag mortars with standardized and natural sand. <i>MATEC Web of Conferences</i> , 2020, 310, 00021.	0.2	0
71	Development of the modulus of elasticity of cement materials in the early stage of ageing. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
72	Pilot Study of Mechanical Waves Passing through Fine-Grained Cement Composite during the Early Hydration Process. <i>Key Engineering Materials</i> , 0, 846, 243-247.	0.4	0

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73	Crack initiation in concrete specimens based on alkali-activated binders. , 2016, , .		0
74	Crack Deflection Under Mixed-Mode Loading Conditions in Fine-Grained Composites Based on Water Glass-Activated Slag. Journal of Multiscale Modeling, 2022, 13, .	1.1	0