

Danuta Barnat-Hunek

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

1,352
citations

361296

20
h-index

377752

34
g-index

80
all docs

80
docs citations

80
times ranked

1228
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of bacteria on strength, permeation characteristics and micro-structure of silica fume concrete. <i>Construction and Building Materials</i> , 2017, 142, 92-100.	3.2	97
2	Composite Materials Based on Hemp and Flax for Low-Energy Buildings. <i>Materials</i> , 2017, 10, 510.	1.3	70
3	Utilization of sewage sludge in the manufacture of lightweight aggregate. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 10.	1.3	66
4	Influence of various parameters on strength and absorption properties of fly ash based geopolymer concrete designed by Taguchi method. <i>Construction and Building Materials</i> , 2017, 150, 817-824.	3.2	61
5	Property Assessment of Hybrid Fiber-Reinforced Ultra-High-Performance Concrete. <i>International Journal of Civil Engineering</i> , 2018, 16, 593-606.	0.9	60
6	Effect of cellulose nanofibrils and nanocrystals on physical properties of concrete. <i>Construction and Building Materials</i> , 2019, 223, 1-11.	3.2	57
7	Mechanical and durability related properties of high performance concrete made with coal cinder and waste foundry sand. <i>Construction and Building Materials</i> , 2016, 121, 9-17.	3.2	55
8	Effect of Fiber Hybridization on Durability Related Properties of Ultra-High Performance Concrete. <i>International Journal of Concrete Structures and Materials</i> , 2017, 11, 315-325.	1.4	48
9	Mechanical and Physical Properties of Hydrophobized Lightweight Aggregate Concrete with Sewage Sludge. <i>Materials</i> , 2016, 9, 317.	1.3	47
10	Properties of hydrophobised lightweight mortars with expanded cork. <i>Construction and Building Materials</i> , 2017, 155, 15-25.	3.2	46
11	Influence of hydrophobisation on surface free energy of hybrid fiber reinforced ultra-high performance concrete. <i>Construction and Building Materials</i> , 2016, 102, 367-377.	3.2	44
12	The use of zeolite, lightweight aggregate and boiler slag in restoration renders. <i>Construction and Building Materials</i> , 2017, 142, 162-174.	3.2	40
13	Impact of Different Binders on the Roughness, Adhesion Strength, and Other Properties of Mortars with Expanded Cork. <i>Materials</i> , 2018, 11, 364.	1.3	34
14	Properties of Fibrous Concrete Made with Plastic Optical Fibers from E-Waste. <i>Materials</i> , 2020, 13, 2414.	1.3	31
15	Effect of Eco-Friendly Cellulose Nanocrystals on Physical Properties of Cement Mortars. <i>Polymers</i> , 2019, 11, 2088.	2.0	30
16	A Noninvasive TDR Sensor to Measure the Moisture Content of Rigid Porous Materials. <i>Sensors</i> , 2018, 18, 3935.	2.1	28
17	Effect of Polysiloxanes on Roughness and Durability of Basalt Fibresâ€“Reinforced Cement Mortar. <i>Polymers</i> , 2018, 10, 420.	2.0	24
18	An integrated texture analysis and machine learning approach for durability assessment of lightweight cement composites with hydrophobic coatings modified by nanocellulose. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 179, 109538.	2.5	23

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19	Flexural and Free Vibration Analysis of CNT-Reinforced Functionally Graded Plate. <i>Materials</i> , 2018, 11, 2387.	1.3	22
20	Utilization of Recycled Liquid Crystal Display (LCD) Panel Waste in Concrete. <i>Materials</i> , 2019, 12, 2941.	1.3	22
21	Effect of hydrophobisation on durability related properties of ceramic brick. <i>Construction and Building Materials</i> , 2016, 111, 275-285.	3.2	21
22	Properties of Hemp-Flax Composites for Use in the Building Industry. <i>Journal of Natural Fibers</i> , 2017, 14, 410-425.	1.7	21
23	Application of Recycled Ceramic Aggregates for the Production of Mineral-Asphalt Mixtures. <i>Materials</i> , 2018, 11, 658.	1.3	20
24	The Microstructure-Mechanical Properties of Hybrid Fibres-Reinforced Self-Compacting Lightweight Concrete with Perlite Aggregate. <i>Materials</i> , 2018, 11, 1093.	1.3	19
25	Properties of multi-layer renders with fly ash and boiler slag admixtures for salt-laden masonry. <i>Construction and Building Materials</i> , 2021, 278, 122366.	3.2	19
26	Increased water repellence of ceramic buildings by hydrophobisation using high concentration of organic solvents. <i>Energy and Buildings</i> , 2015, 103, 249-260.	3.1	18
27	Dynamic Response of Angle Ply Laminates with Uncertainties Using MARS, ANN-PSO, GPR and ANFIS. <i>Materials</i> , 2021, 14, 395.	1.3	18
28	Bi-Axial Buckling of Laminated Composite Plates Including Cutout and Additional Mass. <i>Materials</i> , 2019, 12, 1750.	1.3	16
29	The microstructural and physical properties of renovation renders with clinoptilolite, Na-P1 and Na-X zeolites. <i>Construction and Building Materials</i> , 2020, 261, 120016.	3.2	16
30	Free of Volatile Organic Compounds Protection against Moisture in Building Materials/Zabezpieczenia Przegród Budowlanych Przed Wilgocią... Wolne Od Lotnych Związków Organicznych. <i>Ecological Chemistry and Engineering S</i> , 2014, 21, 401-411.	0.3	15
31	Hydrophobization of Lime Composites with Lignocellulosic Raw Materials from Flax. <i>Journal of Natural Fibers</i> , 2017, 14, 609-620.	1.7	15
32	Durability of Hydrophobic/Icephobic Coatings in Protection of Lightweight Concrete with Waste Aggregate. <i>Materials</i> , 2021, 14, 101.	1.3	15
33	Processes of Fatigue Destruction in Nanopolymer-Hydrophobised Ceramic Bricks. <i>Materials</i> , 2017, 10, 44.	1.3	14
34	The Influence of the Natural Aggregate Roughness on the ITZ Adhesion in Concrete. <i>Materials Science Forum</i> , 0, 931, 564-567.	0.3	14
35	Influence of Recycled High-Performance Aggregate on Deformation and Load-Carrying Capacity of Reinforced Concrete Beams. <i>Materials</i> , 2020, 13, 186.	1.3	13
36	Fracture properties of plain and steel-polypropylene-fiber-reinforced high-performance concrete. <i>Materiali in Tehnologije</i> , 2015, 49, 563-571.	0.3	13

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37	Dynamic response with mass variation of laminated composite twisted plates. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 4145-4152.	0.7	12
38	Physical Properties of Mineral and Recycled Aggregates Used to Mineral-Asphalt Mixtures. <i>Materials</i> , 2019, 12, 3437.	1.3	12
39	Surface Modification of Lightweight Mortars by Nanopolymers to Improve Their Water-Repellency and Durability. <i>Materials</i> , 2020, 13, 1350.	1.3	12
40	Static and Dynamic Response of FG-CNT-Reinforced Rhombic Laminates. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 834.	1.3	11
41	Evaluation of the Contact Angle of Hydrophobised Lightweight-Aggregate Concrete with Sewage Sludge. <i>Ecological Chemistry and Engineering S</i> , 2015, 22, 625-635.	0.3	10
42	Cement kiln dust. , 2018, , 149-180.		10
43	Surface hydrophobisation of mortars with waste aggregate by nanopolymer triethoxy-isobutyl-silane and methyl silicon resin. <i>Construction and Building Materials</i> , 2020, 264, 120175.	3.2	9
44	Flexural Behavior of Composite Concrete Slabs Made with Steel and Polypropylene Fibers Reinforced Concrete in the Compression Zone. <i>Materials</i> , 2020, 13, 3616.	1.3	9
45	Hydrophobisation of mortars containing waste polyurethane foam. <i>MATEC Web of Conferences</i> , 2018, 163, 04006.	0.1	8
46	Hygrothermal Analysis of Laminated Composite Skew Conoids. <i>Materials</i> , 2019, 12, 225.	1.3	8
47	Physical Properties and Durability of Lime-Cement Mortars Prepared with Water Containing Micro-Nano Bubbles of Various Gases. <i>Materials</i> , 2021, 14, 1902.	1.3	7
48	Effect of Mass Variation on Vibration of a Functionally Graded Material Plate. <i>AIAA Journal</i> , 2018, 56, 4626-4631.	1.5	6
49	Wettability and Surface Free Energy of Mineral-Asphalt Mixtures with Dolomite and Recycled Aggregate. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 471, 032011.	0.3	5
50	The Effectiveness of Hydrophobisation of Porous Building Materials by Using the Polymers and Nanopolymers Solutions. <i>International Journal of Materials Science and Engineering</i> , 0, , .	0.1	5
51	The Possibility of Using Boiler Slag as Coarse Aggregate in High Strength Concrete. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 1816-1826.	0.9	4
52	Investigation of porosity effect on flexural analysis of doubly curved FGM conoids. <i>Science and Engineering of Composite Materials</i> , 2019, 26, 435-448.	0.6	4
53	Influence of temperature difference on thermal conductivity of lightweight mortars with waste aggregate. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	4
54	Influence of Biodegradable Release Oils on the Physical and Mechanical Properties of Light-Colored Architectural Concrete. <i>Materials</i> , 2021, 14, 4630.	1.3	4

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55	Surface free energy of hydrophobic coatings of hybrid-fiber-reinforced high-performance concrete. <i>Materiali in Tehnologije</i> , 2015, 49, 895-902.	0.3	4
56	Axial and Shear Buckling Analysis of Multiscale FGM Carbon Nanotube Plates Using the MTSDT Model: A Numerical Approach. <i>Materials</i> , 2022, 15, 2401.	1.3	4
57	Methodology of Moisture Measurement in Porous Materials Using Time Domain Reflectometry / Metodyka Prowadzenia Badań, Wilgotności W Ośrodkach Porowatych Za Pomocą... Reflektometrii W Domenie Czasu. <i>Chemistry, Didactics, Ecology, Metrology</i> , 2014, 19, 97-107.	0.1	3
58	Evaluation of the contact angle and frost resistance of hydrophobised heat-insulating mortars with polystyrene. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	3
59	Rhombic Laminates with Mass Variations under Dual-Axis Compression. <i>Journal of Aerospace Engineering</i> , 2020, 33, 04020013.	0.8	3
60	Evaluation of the contact angle and wettability of hydrophobised lightweight concrete with sawdust. <i>Budownictwo I Architektura</i> , 2020, 19, 019-032.	0.1	3
61	Changes of wetting properties and surface free energy at the time of hydrophobized concretes with boiler slag and coal combustion dust. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	3
62	Impact of roughness on the wettability of mortars with basalt fibres hydrophobised by nanopolymers solution. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
63	The hydrophobization of high strength concretes with plastic waste. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
64	Is TDR method applicable for moisture content measurement in salt laden materials?. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
65	Influence of aggregate type and chemical admixtures on frost resistance of lightweight mortars. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
66	Effect of surface moisture on the effectiveness of the hydrophobisation of mortars with pumice aggregate. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
67	The analysis of influence of polymer admixtures on properties of lightweight concrete. <i>MATEC Web of Conferences</i> , 2019, 252, 08007.	0.1	1
68	The Possibility of Utilization of Sewage Sludge as a Filler in Production of the Lightweight Aggregate Concrete. <i>Ecological Chemistry and Engineering S</i> , 2019, 26, 559-570.	0.3	1
69	Hydrofobizowane tynki z zeolitem. <i>Materiały Budowlane</i> , 2016, 1, 16-18.	0.0	1
70	Magnesia-based cement composites with recycled waste tire rubber filler. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	1
71	Static Analysis of Skew Functionally Graded Plate Using Novel Shear Deformation Theory. <i>Materials</i> , 2022, 15, 4633.	1.3	1
72	Comparison of invasive and non-invasive TDR sensors features for moisture evaluation of the building materials. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0

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73	Thermal and moisture concentration effects on laminated composite hypars. AIP Conference Proceedings, 2019, , .	0.3	0
74	Behavior of laminated composite skew plates under different temperature variations. AIP Conference Proceedings, 2019, , .	0.3	0
75	Moisture measurements of the chalk rock walls from Kazimierz Dolny with the application of TDR method. Budownictwo I Architektura, 2020, 2, 125-140.	0.1	0
76	The analysis of heat conductivity coefficient of the aerated concrete building barriers depending on moisture changes. Budownictwo I Architektura, 2020, 8, 107-116.	0.1	0
77	Valuation of possibility of the silicon based preparations application for strengthening Lublin-type mouldings. Budownictwo I Architektura, 2020, 12, 071-080.	0.1	0
78	Valuation of the capillary uptake phenomenon in the wall of the historic building using the surface TDR probe. Budownictwo I Architektura, 2020, 12, 083-093.	0.1	0
79	Effect of natural release oils on concrete wettability. AIP Conference Proceedings, 2021, , .	0.3	0