

# Milena JiÄiÄkovÄ;

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

1,537  
citations

279701

23  
h-index

345118

36  
g-index

103  
all docs

103  
docs citations

103  
times ranked

842  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-efficient thermal treatment of sewage sludge for its application in blended cements. <i>Journal of Cleaner Production</i> , 2016, 112, 409-419.	4.6	99
2	Structural, mechanical and hygrothermal properties of lightweight concrete based on the application of waste plastics. <i>Construction and Building Materials</i> , 2018, 180, 1-11.	3.2	95
3	Eco-friendly concrete with scrap-tyre-rubber-based aggregate – Properties and thermal stability. <i>Construction and Building Materials</i> , 2019, 225, 709-722.	3.2	81
4	Salt transport and storage parameters of renovation plasters and their possible effects on restored buildings' walls. <i>Construction and Building Materials</i> , 2011, 25, 1205-1212.	3.2	78
5	Valorization of wood chips ash as an eco-friendly mineral admixture in mortar mix design. <i>Waste Management</i> , 2018, 80, 89-100.	3.7	63
6	Complex Characterization and Behavior of Waste Fired Brick Powder-Portland Cement System. <i>Materials</i> , 2019, 12, 1650.	1.3	57
7	Physical and chemical characterization of technogenic pozzolans for the application in blended cements. <i>Construction and Building Materials</i> , 2018, 160, 106-116.	3.2	55
8	Modified lime-cement plasters with enhanced thermal and hygric storage capacity for moderation of interior climate. <i>Energy and Buildings</i> , 2016, 126, 113-127.	3.1	54
9	Experimental Investigation of the Properties of Lime-Based Plaster-Containing PCM for Enhancing the Heat-Storage Capacity of Building Envelopes. <i>International Journal of Thermophysics</i> , 2014, 35, 767-782.	1.0	51
10	Effect of hydrophilic admixtures on moisture and heat transport and storage parameters of mineral wool. <i>Construction and Building Materials</i> , 2006, 20, 425-434.	3.2	48
11	Biomass ash-based mineral admixture prepared from municipal sewage sludge and its application in cement composites. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 159-171.	2.1	47
12	Apparent Thermal Properties of Phase-Change Materials: An Analysis Using Differential Scanning Calorimetry and Impulse Method. <i>International Journal of Thermophysics</i> , 2013, 34, 851-864.	1.0	41
13	Carbon Dioxide Uptake by MOC-Based Materials. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2254.	1.3	40
14	Synthesis, Structure, and Thermal Stability of Magnesium Oxychloride $5\text{Mg}(\text{OH})_2 \cdot \text{MgCl}_2 \cdot 8\text{H}_2\text{O}$ . <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1683.	1.3	40
15	Determination of Moisture Diffusivity using the Time Domain Reflectometry (TDR) Method. <i>Journal of Building Physics</i> , 2006, 30, 59-70.	1.2	37
16	Ternary Blended Binder for Production of a Novel Type of Lightweight Repair Mortar. <i>Materials</i> , 2019, 12, 996.	1.3	34
17	Experimental Analysis of MOC Composite with a Waste-Expanded Polypropylene-Based Aggregate. <i>Materials</i> , 2018, 11, 931.	1.3	33
18	Non-hydrophobized perlite renders for repair and thermal insulation purposes: Influence of different binders on their properties and durability. <i>Construction and Building Materials</i> , 2020, 263, 120617.	3.2	32

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19	Assessment of packing, flowability, hydration kinetics, and strength of blended cements with illitic calcined shale. <i>Construction and Building Materials</i> , 2020, 254, 119042.	3.2	29
20	Thermal Stability and Kinetics of Formation of Magnesium Oxychloride Phase $3\text{Mg}(\text{OH})_2 \cdot \text{MgCl}_2 \cdot 8\text{H}_2\text{O}$ . <i>Materials</i> , 2020, 13, 767.	1.3	28
21	High-performance magnesium oxychloride composites with silica sand and diatomite. <i>Journal of Materials Research and Technology</i> , 2021, 11, 957-969.	2.6	27
22	Chloride Binding in Building Materials. <i>Journal of Building Physics</i> , 2006, 29, 189-200.	1.2	25
23	Service Life Assessment of Historical Building Envelopes Constructed Using Different Types of Sandstone: A Computational Analysis Based on Experimental Input Data. <i>Scientific World Journal</i> , The, 2014, 2014, 1-12.	0.8	25
24	Towards novel building materials: High-strength nanocomposites based on graphene, graphite oxide and magnesium oxychloride. <i>Applied Materials Today</i> , 2020, 20, 100766.	2.3	24
25	Fabrication of Dodecanol/Diatomite Shape-Stabilized PCM and Its Utilization in Interior Plaster. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	23
26	Magnesium oxychloride-graphene composites: Towards high strength and water resistant materials for construction industry. <i>FlatChem</i> , 2021, 29, 100284.	2.8	21
27	Mortars with Crushed Lava Granulate for Repair of Damp Historical Buildings. <i>Materials</i> , 2019, 12, 3557.	1.3	20
28	Influence of Waste Plastic Aggregate and Water-Repellent Additive on the Properties of Lightweight Magnesium Oxychloride Cement Composite. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5463.	1.3	20
29	Influence of Wood-Based Biomass Ash Admixing on the Structural, Mechanical, Hygric, and Thermal Properties of Air Lime Mortars. <i>Materials</i> , 2019, 12, 2227.	1.3	19
30	Low-Carbon Composite Based on MOC, Silica Sand and Ground Porcelain Insulator Waste. <i>Processes</i> , 2020, 8, 829.	1.3	19
31	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
32	MOC Doped with Graphene Nanoplatelets: The Influence of the Mixture Preparation Technology on Its Properties. <i>Materials</i> , 2021, 14, 1450.	1.3	17
33	Magnesium Oxychloride Cement Composites with Silica Filler and Coal Fly Ash Admixture. <i>Materials</i> , 2020, 13, 2537.	1.3	16
34	System for Testing the Hygrothermal Performance of Multi-Layered Building Envelopes. <i>Journal of Thermal Envelope and Building Science</i> , 2002, 25, 239-249.	0.5	14
35	Magnesium Oxychloride Cement Composites Lightened with Granulated Scrap Tires and Expanded Glass. <i>Materials</i> , 2020, 13, 4828.	1.3	13
36	Magnesium Oxychloride Cement Composites with MWCNT for the Construction Applications. <i>Materials</i> , 2021, 14, 484.	1.3	13

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37	Theoretical and Experimental Analysis of Moisture-Dependent Thermal Conductivity of Lightweight Ceramic Bricks. <i>International Journal of Thermophysics</i> , 2014, 35, 1912-1921.	1.0	11
38	Regolith-based magnesium oxychloride composites doped by graphene: Novel high-performance building materials for lunar constructions. <i>FlatChem</i> , 2021, 26, 100234.	2.8	10
39	In-situ analysis of hygric performance of piaristic monastery building. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	8
40	The Impact of Graphene and Diatomite Admixtures on the Performance and Properties of High-Performance Magnesium Oxychloride Cement Composites. <i>Materials</i> , 2020, 13, 5708.	1.3	8
41	Foam Glass Lightened Sorel's Cement Composites Doped with Coal Fly Ash. <i>Materials</i> , 2021, 14, 1103.	1.3	8
42	Zeolite Lightweight Repair Renders: Effect of Binder Type on Properties and Salt Crystallization Resistance. <i>Materials</i> , 2021, 14, 3760.	1.3	8
43	Thermal and Hygric Parameters of Carbon-fiber-reinforced Cement Composites after Thermal and Mechanical Loading. <i>Journal of Building Physics</i> , 2005, 29, 121-143.	1.2	7
44	Lightweight Vapor-Permeable Plasters for Building Repair Detailed Experimental Analysis of the Functional Properties. <i>Materials</i> , 2021, 14, 2613.	1.3	7
45	Effect of Aggregate and Binder Type on the Functional and Durability Parameters of Lightweight Repair Mortars. <i>Sustainability</i> , 2021, 13, 11780.	1.6	7
46	Interior Thermal Insulation System Based on Hydrophilic Mineral Wool. <i>Journal of Building Physics</i> , 2005, 29, 21-35.	1.2	6
47	Coagulated silica - a-SiO <sub>2</sub> admixture in cement paste. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	6
48	Thermal properties of light-weight concrete with waste polypropylene aggregate. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	6
49	Mechanical and thermal properties of light-weight concrete with incorporated waste tire rubber as coarse aggregate. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	6
50	Ultra-high strength multicomponent composites based on reactive magnesia: Tailoring of material properties by addition of 1D and 2D carbon nanoadditives. <i>Journal of Building Engineering</i> , 2022, 50, 104122.	1.6	6
51	Magnesium Potassium Phosphate Cement-Based Derivatives for Construction Use: Experimental Assessment. <i>Materials</i> , 2022, 15, 1896.	1.3	6
52	Properties of lightweight cement-based composites containing waste polypropylene. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	5
53	MOC-Diatomite Composites Filled with Multi-Walled Carbon Nanotubes. <i>Materials</i> , 2021, 14, 4576.	1.3	5
54	Thermophysical properties of hydrophobised lime plaster " Experimental analysis of moisture effect. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	4

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55	Assessment of wood chips ash as efficient admixture in foamed glass-MOC composites. Journal of Materials Research and Technology, 2022, 19, 2287-2300.	2.6	4
56	Applicability of contemporary ceramic bricks for the reconstruction of historical masonry. AIP Conference Proceedings, 2015, , .	0.3	3
57	Parameters describing the coupled water and nitrate transport and storage in materials of historical masonry. AIP Conference Proceedings, 2015, , .	0.3	3
58	UHPFRC at high temperatures â€“ Simultaneous thermal analysis and thermodilatometry. AIP Conference Proceedings, 2016, , .	0.3	3
59	Properties of cement based composites modified using diatomaceous earth. AIP Conference Proceedings, 2017, , .	0.3	3
60	Moisture buffer capacity of cement-lime plasters with enhanced thermal storage capacity. AIP Conference Proceedings, 2017, , .	0.3	3
61	Properties of cement based mortars enriched with diatomaceous earth. AIP Conference Proceedings, 2019, , .	0.3	3
62	Kinetics of formation and thermal stability of Mg <sub>2</sub> (OH) <sub>3</sub> Cl·4H <sub>2</sub> O. AIP Conference Proceedings, 2019, , .	0.3	3
63	Magnesium Oxybromides MOB-318 and MOB-518: Brominated Analogues of Magnesium Oxychlorides. Applied Sciences (Switzerland), 2020, 10, 4032.	1.3	3
64	Characterization of a lime-pozzolan plaster containing phase change material. AIP Conference Proceedings, 2015, , .	0.3	2
65	The use of glass powder as a partial Portland cement replacement. AIP Conference Proceedings, 2017, , .	0.3	2
66	Chemical and thermal analysis of biomass ash from wooden chips and wheat straw combustion. AIP Conference Proceedings, 2017, , .	0.3	2
67	Thermal properties of lightweight concrete with scrap tire rubber-based aggregate. AIP Conference Proceedings, 2018, , .	0.3	2
68	Structural, mechanical and thermal properties of lightweight magnesium oxychloride cement concrete. AIP Conference Proceedings, 2019, , .	0.3	2
69	Is TDR method applicable for moisture content measurement in salt laden materials?. AIP Conference Proceedings, 2020, , .	0.3	2
70	Thermal properties of air lime lightweight mortars. AIP Conference Proceedings, 2020, , .	0.3	2
71	Effect of cation type on chloride binding in building stones. AIP Conference Proceedings, 2015, , .	0.3	1
72	Computational modeling of latent-heat-storage in PCM modified interior plaster. AIP Conference Proceedings, 2016, , .	0.3	1

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73	High-temperature testing of high performance fiber reinforced concrete. AIP Conference Proceedings, 2016, , .	0.3	1
74	Calculation of k factor function for the carbonation process of lime-based plasters. AIP Conference Proceedings, 2017, , .	0.3	1
75	Properties of lightweight composite modified by active siliceous admixture. AIP Conference Proceedings, 2018, , .	0.3	1
76	Chemical composition, thermal analysis and pozzolanic activity of biomass ash from Miscanthus. AIP Conference Proceedings, 2018, , .	0.3	1
77	Thermal properties of lime-based plasters with expanded glass granulate. AIP Conference Proceedings, 2019, , .	0.3	1
78	Properties of alkali-activated composites containing biomass ash. AIP Conference Proceedings, 2019, , .	0.3	1
79	Diatomite powder as pozzolana active mineral admixture in mortar mix composition. AIP Conference Proceedings, 2020, , .	0.3	1
80	The influence of graphene specific surface on material properties of MOC-based composites for construction use. Journal of Building Engineering, 2021, 43, 103193.	1.6	1
81	Influence of Graphite Oxide Addition on the Properties of Magnesium Oxychloride Cement Composites. IOP Conference Series: Materials Science and Engineering, 0, 960, 022080.	0.3	1
82	Moisture diffusivity of natural hydraulic lime-based plasters with incorporated perlite aggregate. AIP Conference Proceedings, 2020, , .	0.3	1
83	Co-Doped Magnesium Oxychloride Composites with Unique Flexural Strength for Construction Use. Materials, 2022, 15, 604.	1.3	1
84	Magnesia-based cement composites with recycled waste tire rubber filler. AIP Conference Proceedings, 2022, , .	0.3	1
85	Liquid moisture diffusivity of environmentally exposed plasters accessed by inverse analysis. AIP Conference Proceedings, 2017, , .	0.3	0
86	Thermophysical properties of hydrophobised lime plasters – The influence of ageing. AIP Conference Proceedings, 2017, , .	0.3	0
87	Thermal, mechanical and structural properties of mortars for rehabilitation of buildings contaminated by chlorides. AIP Conference Proceedings, 2018, , .	0.3	0
88	Moisture diffusivity of hydrophobized lime-based renders. AIP Conference Proceedings, 2018, , .	0.3	0
89	The use of coagulated silica as active mineral admixture in cement-based fine grained mortars. AIP Conference Proceedings, 2018, , .	0.3	0
90	Mechanical parameters of different kinds of renders exposed to sodium sulfate solution. AIP Conference Proceedings, 2019, , .	0.3	0

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91	Hygric parameters of lightweight mortar accessed by combined computational-experimental approach. AIP Conference Proceedings, 2019, , .	0.3	0
92	Hygric and thermal properties of lime plasters modified with wood chips ash-based mineral admixture. AIP Conference Proceedings, 2019, , .	0.3	0
93	Moisture-transport and thermal properties of mortars prepared from blended cement-biomass ash binder. AIP Conference Proceedings, 2020, , .	0.3	0
94	Properties of foamed fine-grained composites containing active mineral admixture. AIP Conference Proceedings, 2020, , .	0.3	0
95	The influence of elevated temperatures on thermal properties of concrete with crumb rubber. AIP Conference Proceedings, 2020, , .	0.3	0
96	Calculation of the development of the Portlandite content based on FT-IR spectroscopy data. AIP Conference Proceedings, 2020, , .	0.3	0
97	High temperature dilatometric measurement of MOC. AIP Conference Proceedings, 2020, , .	0.3	0
98	Thermal stability and kinetics of formation of $Mg_3(OH)_5Cl_4 \cdot 4 H_2O$ . AIP Conference Proceedings, 2020, , .	0.3	0
99	Thermophysical parameters of MOC-based composite with fly ash admixture. AIP Conference Proceedings, 2020, , .	0.3	0
100	Highly-reactive nanoscale MgO precursor for fast synthesis of magnesium oxychlorides. AIP Conference Proceedings, 2022, , .	0.3	0
101	The brucite content calculation in the MOC composites. AIP Conference Proceedings, 2022, , .	0.3	0
102	Thermal properties of mortars with sand/zeolite aggregate. AIP Conference Proceedings, 2022, , .	0.3	0
103	Enhancement of structural and mechanical properties of magnesium oxychloride cement due to graphene addition. AIP Conference Proceedings, 2022, , .	0.3	0