

# Vilma Ducman

## List of Publications by Year in descending order

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52  
papers

1,617  
citations

394421

19  
h-index

289244

40  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1469  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of façade panels based on alkali-activated waste mineral wool, their characterization, and durability aspects. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 1227-1234.	2.1	4
2	Report of RILEM TC 281-CCC: outcomes of a round robin on the resistance to accelerated carbonation of Portland, Portland-fly ash and blast-furnace blended cements. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, 99.	3.1	10
3	Microstructural Characterization of Alkali-Activated Composites of Lightweight Aggregates (LWAs) Embedded in Alkali-Activated Foam (AAF) Matrices. <i>Polymers</i> , 2022, 14, 1729.	4.5	5
4	Evaluation of Sediments from the River Drava and Their Potential for Further Use in the Building Sector. <i>Materials</i> , 2022, 15, 4303.	2.9	5
5	Evaluation of locally available amorphous waste materials as a source for alternative alkali activators. <i>Ceramics International</i> , 2021, 47, 4864-4873.	4.8	16
6	Alkali Activation of Metallurgical Slags: Reactivity, Chemical Behavior, and Environmental Assessment. <i>Materials</i> , 2021, 14, 639.	2.9	19
7	The Effect of Crystalline Waterproofing Admixtures on the Self-Healing and Permeability of Concrete. <i>Materials</i> , 2021, 14, 1860.	2.9	11
8	Mechanical, microstructural and mineralogical evaluation of alkali-activated waste glass and stone wool. <i>Ceramics International</i> , 2021, 47, 15102-15113.	4.8	19
9	High temperature resistant fly-ash and metakaolin-based alkali-activated foams. <i>Ceramics International</i> , 2021, 47, 25105-25120.	4.8	31
10	Life Cycle Assessment of Prefabricated Geopolymeric Façade Cladding Panels Made from Large Fractions of Recycled Construction and Demolition Waste. <i>Materials</i> , 2020, 13, 3931.	2.9	28
11	Up-scaling and performance assessment of façade panels produced from construction and demolition waste using alkali activation technology. <i>Construction and Building Materials</i> , 2020, 262, 120475.	7.2	9
12	Optimization and mechanical-physical characterization of geopolymers with Construction and Demolition Waste (CDW) aggregates for construction products. <i>Construction and Building Materials</i> , 2020, 264, 120158.	7.2	26
13	Influence of the Size and Type of Pores on Brick Resistance to Freeze-Thaw Cycles. <i>Materials</i> , 2020, 13, 3717.	2.9	14
14	Influence of Particle Size on Compressive Strength of Alkali Activated Refractory Materials. <i>Materials</i> , 2020, 13, 2227.	2.9	11
15	Particle size manipulation as an influential parameter in the development of mechanical properties in electric arc furnace slag-based AAM. <i>Ceramics International</i> , 2019, 45, 22632-22641.	4.8	25
16	Potential of Green Ceramics Waste for Alkali Activated Foams. <i>Materials</i> , 2019, 12, 3563.	2.9	9
17	Production of Lightweight Alkali Activated Mortars Using Mineral Wools. <i>Materials</i> , 2019, 12, 1695.	2.9	26
18	The Potential of Ladle Slag and Electric Arc Furnace Slag use in Synthesizing Alkali Activated Materials; the Influence of Curing on Mechanical Properties. <i>Materials</i> , 2019, 12, 1173.	2.9	40

#	ARTICLE	IF	CITATIONS
19	Aggregates Obtained by Alkali Activation of Fly Ash: The Effect of Granulation, Pelletization Methods and Curing Regimes. <i>Materials</i> , 2019, 12, 776.	2.9	9
20	Impacts of Casting Scales and Harsh Conditions on the Thermal, Acoustic, and Mechanical Properties of Indoor Acoustic Panels Made with Fiber-Reinforced Alkali-Activated Slag Foam Concretes. <i>Materials</i> , 2019, 12, 825.	2.9	19
21	Efficiency of Novel Photocatalytic Coating and Consolidants for Protection of Valuable Mineral Substrates. <i>Materials</i> , 2019, 12, 521.	2.9	4
22	Use of fly ash and phosphogypsum for the synthesis of belite-sulfoaluminate clinker. <i>Materiales De Construccion</i> , 2019, 69, 176.	0.7	15
23	Draining capability of single-sized pervious concrete. <i>Construction and Building Materials</i> , 2018, 169, 252-260.	7.2	74
24	The use of different by-products in the production of lightweight alkali activated building materials. <i>Construction and Building Materials</i> , 2017, 135, 315-322.	7.2	51
25	The influence of the stabilizing agent SDS on porosity development in alkali-activated fly-ash based foams. <i>Cement and Concrete Composites</i> , 2017, 80, 168-174.	10.7	71
26	Lightweight aggregates made from fly ash using the cold-bond process and their use in lightweight concrete. <i>Materiali in Tehnologije</i> , 2017, 51, 267-274.	0.5	15
27	Assessment of alkali activated mortars based on different precursors with regard to their suitability for concrete repair. <i>Construction and Building Materials</i> , 2016, 124, 937-944.	7.2	53
28	Characterization of geopolymer fly-ash based foams obtained with the addition of Al powder or H <sub>2</sub> O <sub>2</sub> as foaming agents. <i>Materials Characterization</i> , 2016, 113, 207-213.	4.4	192
29	Mechanical and microstructural characterization of geopolymer synthesized from low calcium fly ash. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2015, 21, 13-22.	0.7	19
30	Influence of aggregate type and size on properties of pervious concrete. <i>Construction and Building Materials</i> , 2015, 78, 69-76.	7.2	216
31	Recycled granulate obtained from waste alumina-rich refractory powder by the cold bonding process. <i>Ceramics International</i> , 2015, 41, 8996-9002.	4.8	7
32	Water vapour permeability of lightweight concrete prepared with different types of lightweight aggregates. <i>Construction and Building Materials</i> , 2014, 68, 314-319.	7.2	14
33	Photo-catalytic efficiency of laboratory made and commercially available ceramic building products. <i>Ceramics International</i> , 2013, 39, 2981-2987.	4.8	17
34	X-ray micro-tomography investigation of the foaming process in the system of waste glass-silica mud-MnO <sub>2</sub> . <i>Materials Characterization</i> , 2013, 86, 316-321.	4.4	16
35	Characterisation of the pore-forming process in lightweight aggregate based on silica sludge by means of X-ray micro-tomography (micro-CT) and mercury intrusion porosimetry (MIP). <i>Ceramics International</i> , 2013, 39, 6997-7005.	4.8	77
36	Pozzolanic mortars for the conservation of old masonry structures. <i>Gradevinar</i> , 2013, 65, 721-729.	0.2	0

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37	Frost Action Mechanisms of Clay Roofing Tiles: Case Study. Journal of Materials in Civil Engineering, 2012, 24, 1254-1260.	2.9	6
38	Determination of the photocatalytic efficiency of TiO <sub>2</sub> coatings on ceramic tiles by monitoring the photodegradation of organic dyes. Ceramics International, 2012, 38, 1611-1616.	4.8	29
39	The potential use of steel slag in refractory concrete. Materials Characterization, 2011, 62, 716-723.	4.4	52
40	Frost resistance of clay roofing tiles: Case study. Ceramics International, 2011, 37, 85-91.	4.8	28
41	The applicability of different waste materials for the production of lightweight aggregates. Waste Management, 2009, 29, 2361-2368.	7.4	57
42	Microbial Deterioration of Clay Roofing Tiles as a Function of the Firing Temperature. Journal of the American Ceramic Society, 2008, 91, 3762-3767.	3.8	13
43	Low-vacuum SEM analyses of ceramic tiles with emphasis on glaze defects characterisation. Materials Characterization, 2007, 58, 1133-1137.	4.4	13
44	Alkali-silica reactivity of some frequently used lightweight aggregates. Cement and Concrete Research, 2004, 34, 1809-1816.	11.0	85
45	Lightweight aggregate based on waste glass and its alkali-silica reactivity. Cement and Concrete Research, 2002, 32, 223-226.	11.0	154
46	Evaluation of Fly Ash-based Alkali Activated Foams at Room and Elevated Temperatures. , 0, , .		1
47	Foundry Wastes as a Potential Precursor in Alkali Activation Technology. , 0, , .		1
48	The Deformation of Alkali-activated Materials at Different Curing Temperatures. , 0, , .		0
49	Fibre Reinforced Alkali-Activated Rock Wool. , 0, , .		0
50	The Influence of Different Fibres Quantity on Mechanical and Microstructural Properties of Alkali-activated Foams. , 0, , .		0
51	The Development and Assessment of Alkali Activated Paving Blocks. , 0, , .		0
52	Influence of Homogenization of Alkali-Activated Slurry on Mechanical Strength. , 0, , .		1