

# Ali Allahverdi

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

2,747  
citations

218381

26  
h-index

182168

51  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2677  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-supercritical drying synthesis and characterization of monolithic alumina aerogel from secondary aluminum dross. <i>Ceramics International</i> , 2022, 48, 13154-13162.	2.3	7
2	Liquid cell transmission electron microscopy reveals C-S-H growth mechanism during Portland cement hydration. <i>Materialia</i> , 2022, 22, 101387.	1.3	4
3	Preparation of monolithic amorphous silica aerogel through promising valorization of silicomanganese slag. <i>Journal of Non-Crystalline Solids</i> , 2022, 586, 121561.	1.5	4
4	Advanced characterisation of 3D structure and porosity of ordinary portland cement (OPC) mortar using plasma focused ion beam tomography and X-ray computed tomography. <i>Journal of Microscopy</i> , 2022, 287, 19-31.	0.8	1
5	Effect of preparation parameters on properties of metakaolin-based geopolymer activated by silica fume- sodium hydroxide alkaline blend. <i>Journal of Building Engineering</i> , 2022, 60, 104984.	1.6	11
6	Highly efficient green synthesis of highly pure microporous nanosilica from silicomanganese slag. <i>Ceramics International</i> , 2021, 47, 2222-2229.	2.3	6
7	Resistance of red clay brick waste/phosphorus slag-based geopolymer mortar to acid solutions of mild concentration. <i>Journal of Building Engineering</i> , 2021, 34, 102066.	1.6	27
8	Effect of organoclay reinforced acrylate latex particles on the cement paste performance. <i>Journal of Dispersion Science and Technology</i> , 2021, 42, 416-431.	1.3	11
9	Properties of Green, Lightweight, and High-Strength Reactive Powder Concrete Incorporating Modified Expanded Polystyrene Beads. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	3.0	14
10	Using PC clinker as aggregate-enhancing concrete properties by improving ITZ microstructure. <i>Magazine of Concrete Research</i> , 2020, 72, 173-181.	0.9	7
11	Production of High Purity $\alpha$ - and $\beta$ -Alumina From Aluminum Dross. , 2020, , 473-482.		2
12	Recycling Aluminosilicate Industrial Wastes Into Geopolymer: A Review. , 2020, , 490-507.		2
13	Chemical doping of TiO <sub>2</sub> Nano-tube array for enhancing hydrogen production through photoelectrochemical water splitting. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	1
14	Investigating photocatalytic property of TiO <sub>2</sub> nanorods fabricated hydrothermally at equal molar ratio of KOH and Na OH. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 682-692.	1.1	1
15	Using Plasma Focused Ion Beam Microscopy to Characterize 3D Structure and Porosity of OPC Mortar. <i>Microscopy and Microanalysis</i> , 2019, 25, 926-927.	0.2	0
16	Enhancing Concrete Properties by Using Silica Fume as Reactive Powder and Portland Cement-Clinker as Reactive Aggregate. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	1.3	6
17	Methylene blue adsorption by TiO <sub>2</sub> -based nano-adsorbents: performance evaluation and kinetic study. <i>Research on Chemical Intermediates</i> , 2019, 45, 4863-4883.	1.3	7

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19	Durability performance of geopolymers based on fly ash and calcium aluminate cement in mild concentration acid solutions. <i>Journal of Sustainable Cement-Based Materials</i> , 2019, 8, 290-308.	1.7	26
20	Strength development and acid resistance of geopolymer based on waste clay brick powder and phosphorous slag. <i>Structural Concrete</i> , 2019, 20, 1596-1606.	1.5	27
21	Green template-free synthesis and characterization of mesoporous alumina as a high value-added product in aluminum black dross recycling strategy. <i>Journal of Alloys and Compounds</i> , 2019, 792, 161-169.	2.8	27
22	Sulfate resistance of RFCC spent catalyst-blended Portland cement. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2019, 58, 103-114.	0.9	13
23	A Scoping Review on Integrating Inorganic Nanomaterials into Cement Composites. <i>Advances in Civil Engineering Materials</i> , 2019, 8, 526-553.	0.2	4
24	Enhanced alumina recovery from secondary aluminum dross for high purity nanostructured $\gamma$ -alumina powder production: Kinetic study. <i>Journal of Environmental Management</i> , 2018, 212, 278-291.	3.8	75
25	Development of multi-strength grade green lightweight reactive powder concrete using expanded polystyrene beads. <i>Construction and Building Materials</i> , 2018, 172, 457-467.	3.2	32
26	A promising green process for synthesis of high purity activated-alumina nanopowder from secondary aluminum dross. <i>Journal of Cleaner Production</i> , 2018, 179, 93-102.	4.6	94
27	Chemical activation of slag-blended Portland cement. <i>Journal of Building Engineering</i> , 2018, 18, 76-83.	1.6	46
28	Hydrogels as intelligent materials: A brief review of synthesis, properties and applications. <i>Materials Today Chemistry</i> , 2018, 8, 42-55.	1.7	356
29	Alkali-Activated Phosphorous Slag Performance under Different Curing Conditions: Compressive Strength, Hydration Products, and Microstructure. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	24
30	Acid attack on geopolymer cement mortar based on waste-glass powder and calcium aluminate cement at mild concentration. <i>Construction and Building Materials</i> , 2018, 193, 363-372.	3.2	77
31	Enhancement of hydraulic activity of slag-blended Portland cement. <i>Asian Journal of Civil Engineering</i> , 2018, 19, 1009-1020.	0.8	5
32	Production of nanostructured $\gamma$ -alumina from aluminum foundry tailing for catalytic applications. <i>International Nano Letters</i> , 2018, 8, 255-261.	2.3	16
33	Application of Liquid Cell-TEM in Hydration Reactions of Nano Portland Cement. <i>Microscopy and Microanalysis</i> , 2018, 24, 294-295.	0.2	2
34	Hazardous aluminum dross characterization and recycling strategies: A critical review. <i>Journal of Environmental Management</i> , 2018, 223, 452-468.	3.8	182
35	Acid-Resistant Geopolymer Based on Fly Ash-Calcium Aluminate Cement. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, 04018143.	1.3	11
36	A composite cement of high magnesium sulphate resistance. <i>Materiales De Construcción</i> , 2018, 68, 154.	0.2	3

#	ARTICLE	IF	CITATIONS
37	Developing Low-Cost Activators for Alkali-Activated Phosphorus Slag-Based Binders. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	16
38	Carbonation Versus Efflorescence in Alkali-Activated Blast-Furnace Slag in Relation with Chemical Composition of Activator. International Journal of Civil Engineering, 2017, 15, 565-573.	0.9	29
39	A Temperature-“Age Model For Prediction of Compressive Strength of Chemically Activated High Phosphorus Slag Content Cement. International Journal of Civil Engineering, 2017, 15, 839-847.	0.9	7
40	Durability of Geopolymer Mortar Based on Waste-Glass Powder and Calcium Aluminate Cement in Acid Solutions. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	44
41	Performance evaluation of foaming agents in cellular concrete based on foamed alkali-activated slag. Canadian Journal of Civil Engineering, 2017, 44, 893-898.	0.7	16
42	High strength geopolymer binder based on waste-glass powder. Advanced Powder Technology, 2017, 28, 215-222.	2.0	152
43	Calorimetric study of geopolymer binders based on natural pozzolan. Journal of Thermal Analysis and Calorimetry, 2017, 127, 2181-2190.	2.0	37
44	Superior Sodium Sulfate Resistance of a Chemically Activated Phosphorus Slag-“Based Composite Cement. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	12
45	Calorimetric study of geopolymer binders based on natural pozzolan. , 2017, 127, 2181.		1
46	Quality control and assessment of geopolymer cements based on reacted and free alkalis. Construction and Building Materials, 2017, 153, 274-283.	3.2	10
47	Influence of calcium aluminate cement on geopolymerization of natural pozzolan. Construction and Building Materials, 2016, 114, 290-296.	3.2	87
48	Efflorescence Formation and Control in Alkali-Activated Phosphorus Slag Cement. International Journal of Civil Engineering, 2016, 14, 425-438.	0.9	33
49	Photocatalytic effect of nano-TiO <sub>2</sub> loaded cement on dye decolorization and Escherichia coli inactivation under UV irradiation. Research on Chemical Intermediates, 2016, 42, 5395-5412.	1.3	17
50	Influence of curing conditions on the mechanical and physical properties of chemically-activated phosphorous slag cement. Powder Technology, 2016, 288, 132-139.	2.1	55
51	STOCHASTIC MODELING OF COMPRESSIVE STRENGTH OF PHOSPHORUS SLAG CONTENT CEMENT. Ceramics - Silikaty, 2016, , 169-178.	0.2	1
52	Methods to control efflorescence in alkali-activated cement-based materials. , 2015, , 463-483.		22
53	Accelerated biodegradation of cured cement paste by Thiobacillus species under simulation condition. International Biodeterioration and Biodegradation, 2014, 86, 317-326.	1.9	36
54	Mechanical activation of silicomanganese slag and its influence on the properties of Portland slag cement. Powder Technology, 2014, 251, 41-51.	2.1	45

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55	Resistance of chemically activated high phosphorous slag content cement against frost-salt attack. Cold Regions Science and Technology, 2014, 98, 18-25.	1.6	13
56	Resistance of chemically-activated high phosphorous slag content cement against freeze-thaw cycles. Cold Regions Science and Technology, 2014, 103, 107-114.	1.6	48
57	Ultrasound-assisted synthesis of colloidal nanosilica from silica fume: Effect of sonication time on the properties of product. Advanced Powder Technology, 2014, 25, 1571-1577.	2.0	54
58	Effective dispersion of nano-TiO <sub>2</sub> powder for enhancement of photocatalytic properties in cement mixes. Construction and Building Materials, 2013, 41, 224-230.	3.2	120
59	Mechanical activation of chemically activated high phosphorous slag content cement. Powder Technology, 2013, 245, 182-188.	2.1	69
60	Use of construction and demolition waste (CDW) for alkali-activated or geopolymer cements. , 2013, , 439-475.		26
61	$\text{CoAl}_2\text{O}_4$ Nano Pigment Obtained by Combustion Synthesis. International Journal of Applied Ceramic Technology, 2012, 9, 968-978.	1.1	33
62	The effect of nanosilica on mechanical, thermal and morphological properties of epoxy coating. Progress in Organic Coatings, 2012, 75, 543-548.	1.9	113
63	Exergetic and environmental performance improvement in cement production process by driving force distribution. Korean Journal of Chemical Engineering, 2012, 29, 606-613.	1.2	5
64	Efflorescence control in geopolymer binders based on natural pozzolan. Cement and Concrete Composites, 2012, 34, 25-33.	4.6	334
65	Self-compacting concrete containing different powders at elevated temperatures – Mechanical properties and changes in the phase composition of the paste. Thermochimica Acta, 2011, 514, 74-81.	1.2	47
66	Characterizing thermal behavior of ceramic glaze containing nano-sized cobalt-aluminate pigment by hot stage microscopy. Thermochimica Acta, 2011, 521, 191-196.	1.2	24
67	Effect of pH, Molar Ratio of Fuel to Nitrates and Calcination Temperature on the Glycine-Nitrate Synthesis of Nano $\text{CoAl}_2\text{O}_4$ . Advances in Science and Technology, 2010, 68, 176-181.	0.2	3
68	Effects of curing time and temperature on strength development of inorganic polymeric binder based on natural pozzolan. Journal of Materials Science, 2009, 44, 3088-3097.	1.7	104