

Martin Cyr

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

3,593
citations

35
h-index

58
g-index

100
ext. papers

4,243
ext. citations

6.5
avg, IF

5.8
L-index

#	Paper	IF	Citations
96	Mineral admixtures in mortars. <i>Cement and Concrete Research</i> , 2003 , 33, 1939-1947	10.3	258
95	Efficiency of mineral admixtures in mortars: Quantification of the physical and chemical effects of fine admixtures in relation with compressive strength. <i>Cement and Concrete Research</i> , 2006 , 36, 264-277	10.3	201
94	Technological and environmental behavior of sewage sludge ash (SSA) in cement-based materials. <i>Cement and Concrete Research</i> , 2007 , 37, 1278-1289	10.3	185
93	Use of fine glass as ASR inhibitor in glass aggregate mortars. <i>Construction and Building Materials</i> , 2010 , 24, 1309-1312	6.7	174
92	Study of the shear thickening effect of superplasticizers on the rheological behaviour of cement pastes containing or not mineral additives. <i>Cement and Concrete Research</i> , 2000 , 30, 1477-1483	10.3	171
91	Pozzolanic properties of fine and coarse color-mixed glass cullet. <i>Cement and Concrete Composites</i> , 2011 , 33, 19-29	8.6	135
90	Mineral admixtures in mortars effect of type, amount and fineness of fine constituents on compressive strength. <i>Cement and Concrete Research</i> , 2005 , 35, 1092-1105	10.3	119
89	Properties of inorganic polymer (geopolymer) mortars made of glass cullet. <i>Journal of Materials Science</i> , 2012 , 47, 2782-2797	4.3	107
88	Mineral admixtures in mortars. <i>Cement and Concrete Research</i> , 2005 , 35, 719-730	10.3	103
87	Chemo-mechanical modeling for prediction of alkali silica reaction (ASR) expansion. <i>Cement and Concrete Research</i> , 2009 , 39, 490-500	10.3	98
86	Characteristics and applications of flash metakaolins. <i>Applied Clay Science</i> , 2013 , 83-84, 253-262	5.2	90
85	Use of metakaolin to stabilize sewage sludge ash and municipal solid waste incineration fly ash in cement-based materials. <i>Journal of Hazardous Materials</i> , 2012 , 243, 193-203	12.8	86
84	Effect of the rate of calcination of kaolin on the properties of metakaolin-based geopolymersPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <i>Journal of Asian Ceramic Societies</i> , 2015 , 3, 130-138	2.4	84
83	Carbonation in the pore solution of metakaolin-based geopolymer. <i>Cement and Concrete Research</i> , 2016 , 88, 227-235	10.3	78
82	Effects of metakaolin on autogenous shrinkage of cement pastes. <i>Cement and Concrete Composites</i> , 2007 , 29, 80-87	8.6	78
81	Durability of concrete containing a natural pozzolan as defined by a performance-based approach. <i>Construction and Building Materials</i> , 2009 , 23, 3457-3467	6.7	74
80	Reactivity tests for supplementary cementitious materials: RILEM TC 267-TRM phase 1. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018 , 51, 1	3.4	74

79	Characteristics of industrial and laboratory meat and bone meal ashes and their potential applications. <i>Journal of Hazardous Materials</i> , 2008 , 150, 522-32	12.8	69
78	Effects of aggregate size and alkali content on ASR expansion. <i>Cement and Concrete Research</i> , 2010 , 40, 508-516	10.3	64
77	Quantitative mineralogical composition of complex mineral wastes--contribution of the Rietveld method. <i>Waste Management</i> , 2010 , 30, 378-88	8.6	60
76	Formulation and performance of flash metakaolin geopolymer concretes. <i>Construction and Building Materials</i> , 2016 , 120, 150-160	6.7	58
75	Effect of cement type on metakaolin efficiency. <i>Cement and Concrete Research</i> , 2014 , 64, 63-72	10.3	52
74	Alkali-silica reaction in metakaolin-based geopolymer mortar. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015 , 48, 571-583	3.4	50
73	Service life of metakaolin-based concrete exposed to carbonation. <i>Cement and Concrete Research</i> , 2017 , 99, 18-29	10.3	48
72	Performance-based approach to durability of concrete containing flash-calcined metakaolin as cement replacement. <i>Construction and Building Materials</i> , 2014 , 55, 313-322	6.7	48
71	Coupled effects of aggregate size and alkali content on ASR expansion. <i>Cement and Concrete Research</i> , 2008 , 38, 350-359	10.3	47
70	Properties of low temperature belite cements made from aluminosilicate wastes by hydrothermal method. <i>Cement and Concrete Composites</i> , 2014 , 53, 170-177	8.6	46
69	Formulation and characterization of blended alkali-activated materials based on flash-calcined metakaolin, fly ash and GGBS. <i>Construction and Building Materials</i> , 2017 , 144, 50-64	6.7	45
68	Synthesis of alpha'L-C2S cement from fly-ash using the hydrothermal method at low temperature and atmospheric pressure. <i>Journal of Hazardous Materials</i> , 2010 , 181, 593-601	12.8	42
67	High-Pressure Device for Fluid Extraction from Porous Materials: Application to Cement-Based Materials. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2653-2658	3.8	41
66	Thermomechanical performance of blended metakaolin-GGBS alkali-activated foam concrete. <i>Construction and Building Materials</i> , 2017 , 157, 982-993	6.7	39
65	Rational utilization of volcanic ashes based on factors affecting their alkaline activation. <i>Journal of Non-Crystalline Solids</i> , 2017 , 463, 31-39	3.9	38
64	Evaluation and improvement of pozzolanic activity of andesite for its use in eco-efficient cement. <i>Construction and Building Materials</i> , 2013 , 47, 1268-1277	6.7	38
63	Alkali-silica reaction (ASR) expansion: Pessimum effect versus scale effect. <i>Cement and Concrete Research</i> , 2013 , 44, 25-33	10.3	38
62	Influence of the initial water content in flash calcined metakaolin-based geopolymer. <i>Construction and Building Materials</i> , 2019 , 201, 421-429	6.7	38

61	Reduction of ASR-expansion using powders ground from various sources of reactive aggregates. <i>Cement and Concrete Composites</i> , 2009 , 31, 438-446	8.6	31
60	Durability and stability of an ettringite-based material for thermal energy storage at low temperature. <i>Cement and Concrete Research</i> , 2017 , 99, 106-115	10.3	28
59	Structural and chemical changes in kaolinite caused by flash calcination: Formation of spherical particles. <i>Applied Clay Science</i> , 2015 , 114, 247-255	5.2	26
58	Characterization of Spreader Stoker Coal Fly Ashes (SSCFA) for their use in cement-based applications. <i>Fuel</i> , 2015 , 162, 224-233	7.1	22
57	Ability of the R3 test to evaluate differences in early age reactivity of 16 industrial ground granulated blast furnace slags (GGBS). <i>Cement and Concrete Research</i> , 2020 , 130, 105998	10.3	22
56	Comparative study of a chemomechanical modeling for alkali silica reaction (ASR) with experimental evidences. <i>Construction and Building Materials</i> , 2014 , 72, 301-315	6.7	22
55	Low risk meat and bone meal (MBM) bottom ash in mortars as sand replacement. <i>Cement and Concrete Research</i> , 2006 , 36, 469-480	10.3	21
54	Microstructural evolution/durability of magnesium phosphate cement paste over time in neutral and basic environments. <i>Cement and Concrete Research</i> , 2019 , 122, 42-58	10.3	20
53	Durability of dry-mix shotcrete using supplementary cementitious materials. <i>Construction and Building Materials</i> , 2018 , 190, 1-12	6.7	20
52	On the origin of the blue/green color of blast-furnace slag-based materials: Sulfur K-edge XANES investigation. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1707-1716	3.8	19
51	Modelling and experimental study of low temperature energy storage reactor using cementitious material. <i>Applied Thermal Engineering</i> , 2017 , 110, 601-615	5.8	19
50	Interpretation of expansion curves of concrete subjected to accelerated alkali-aggregate reaction (AAR) tests. <i>Cement and Concrete Research</i> , 2002 , 32, 691-700	10.3	18
49	Investigations on the durability of alkali-activated recycled glass. <i>Construction and Building Materials</i> , 2020 , 236, 117477	6.7	18
48	A comparison of methods for chemical assessment of reactive silica in concrete aggregates by selective dissolution. <i>Cement and Concrete Composites</i> , 2013 , 37, 82-94	8.6	17
47	A simple way to mitigate alkali-silica reaction. <i>Materials and Structures/Materiaux Et Constructions</i> , 2007 , 41, 73-83	3.4	17
46	Application of ASR tests to recycled concrete aggregates: Influence of water absorption. <i>Construction and Building Materials</i> , 2016 , 124, 714-721	6.7	17
45	Physical and chemical effects of El Hadjar slag used as an additive in cement-based materials. <i>European Journal of Environmental and Civil Engineering</i> , 2011 , 15, 1413-1432	1.5	16
44	Porous structure optimisation of flash-calcined metakaolin/fly ash geopolymer foam concrete. <i>European Journal of Environmental and Civil Engineering</i> , 2018 , 22, 1482-1498	1.5	14

43	Role of the nature of reaction products in the differing behaviours of fine glass powders and coarse glass aggregates used in concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2013 , 46, 233-243	3.4	14
42	Characterization of fresh dry-mix shotcrete and correlation to rebound. <i>Construction and Building Materials</i> , 2017 , 135, 225-232	6.7	13
41	Stabilization of soils containing sulfates by using alternative hydraulic binders. <i>Applied Geochemistry</i> , 2020 , 113, 104494	3.5	13
40	A three-step method for the recovery of aggregates from concrete. <i>Construction and Building Materials</i> , 2013 , 45, 262-269	6.7	12
39	Thermal energy storage based on cementitious materials: A review. <i>AIMS Energy</i> , 2018 , 6, 97-120	1.8	12
38	An investigation of the leaching behavior of trace elements from Spreader Stoker Coal Fly Ashes-based systems. <i>Construction and Building Materials</i> , 2016 , 110, 218-226	6.7	11
37	Experimental evaluation of two low temperature energy storage prototypes based on innovative cementitious material. <i>Applied Energy</i> , 2018 , 217, 47-55	10.7	10
36	Evaluation of laboratory and industrial meat and bone meal combustion residue as cadmium immobilizing material for remediation of polluted aqueous solutions: "chemical and ecotoxicological studies". <i>Journal of Hazardous Materials</i> , 2009 , 166, 945-53	12.8	10
35	Variation des facteurs d'efficacité caractérisant les additions minérales. <i>Materials and Structures/Materiaux Et Constructions</i> , 2000 , 33, 466-472	3.4	10
34	Interactions between alkali-activated ground granulated blastfurnace slag and organic matter in soil stabilization/solidification. <i>Transportation Geotechnics</i> , 2021 , 26, 100412	4	10
33	Quantification of uncertainty of experimental measurement in leaching test on cement-based materials. <i>Journal of Environmental Management</i> , 2011 , 92, 2494-503	7.9	9
32	Influence of supplementary cementitious materials (SCMs) on concrete durability 2013 , 153-197		8
31	Optimising an expansion test for the assessment of alkali-silica reaction in concrete structures. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011 , 44, 1641-1653	3.4	8
30	Titanium fume and ilmenite fines characterization for their use in cement-based materials. <i>Cement and Concrete Research</i> , 2000 , 30, 1097-1104	10.3	8
29	Design of eco-efficient grouts intended for soil nailing. <i>Construction and Building Materials</i> , 2013 , 41, 857-867	6.7	7
28	Effect of drying temperature on the properties of alkali-activated binders - Recommendations for sample preconditioning. <i>Cement and Concrete Research</i> , 2022 , 151, 106617	10.3	7
27	Performance-based evaluation of flash-metakaolin as cement replacement in marine structures □ Case of chloride migration and corrosion. <i>Construction and Building Materials</i> , 2021 , 267, 120926	6.7	7
26	Self-compacting concrete using flash-metakaolin: design method. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015 , 48, 1717-1737	3.4	6

25	Amorphous phase of volcanic ash and microstructure of cement product obtained from phosphoric acid activation. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	6
24	Studies of Natural and Accelerated Carbonation in Metakaolin-Based Geopolymer. <i>Advances in Science and Technology</i> , 2014 , 92, 38-43	0.1	6
23	An investigation of CaSi silica fume characteristics and its possible utilization in cement-based and alkali-activated materials. <i>Construction and Building Materials</i> , 2015 , 101, 456-465	6.7	6
22	A discussion of the paper The effect of measuring procedure on the apparent rheological properties of self-compacting concrete by Mette R. Geiker, Mari Brandl, Lars N. Thrane, Dirch H. Bager and Olafur Wallevik. <i>Cement and Concrete Research</i> , 2003 , 33, 1901-1903	10.3	6
21	Carbonation of Blended Binders Containing Metakaolin. <i>RILEM Bookseries</i> , 2015 , 27-33	0.5	5
20	Mechanism of ASR reduction by reactive aggregate powders. <i>Advances in Cement Research</i> , 2009 , 21, 147-158	1.8	5
19	Optimization of a high-pressure pore water extraction device. <i>Review of Scientific Instruments</i> , 2007 , 78, 023906	1.7	5
18	Phosphoric acid activation of volcanic ashes: Influence of the molar ratio $R = (MgO + CaO) / P_2O_5$ on reactivity of volcanic ash and strength of obtained cementitious material. <i>Journal of Building Engineering</i> , 2021 , 33, 101879	5.2	5
17	Robustness to water and temperature, and activation energies of metakaolin-based geopolymer and alkali-activated slag binders. <i>Construction and Building Materials</i> , 2021 , 300, 124066	6.7	4
16	Experimental evidence for the acceleration of slag hydration in blended cements by the addition of CaCl ₂ . <i>Cement and Concrete Research</i> , 2021 , 149, 106558	10.3	4
15	Definition and Exploration of the Integrated CO ₂ Mineralization Technological Cycle. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	3
14	Management of mineral wastes in cement-based materials. <i>Revue Européenne De Génie Civil</i> , 2006 , 10, 323-337		3
13	External sulfate attack: comparison of several alternative binders. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021 , 54, 1	3.4	3
12	Effect of TiO ₂ and 11 minor elements on the reactivity of ground-granulated blast-furnace slag in blended cements. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 128-139	3.8	3
11	Glass structure of industrial ground granulated blast furnace slags (GGBS) investigated by time-resolved Raman and NMR spectroscopies. <i>Journal of Materials Science</i> , 2021 , 56, 17490-17504	4.3	3
10	Development of a cementitious material for thermal energy storage at low temperature. <i>Construction and Building Materials</i> , 2020 , 242, 118130	6.7	2
9	Enhancing value of local materials in developing countries. <i>European Journal of Environmental and Civil Engineering</i> , 2009 , 13, 1263-1278	1.5	2
8	Physical and chemical effects of El Hadjar slag used as an additive in cement-based materials		2

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| 7 | Normalized age applied to AAR occurring in concretes with or without mineral admixtures. <i>Cement and Concrete Research</i> , 2002 , 32, 1771-1782 | 10.3 | 1 |
| 6 | Etude de la réactivité hydraulique d'un ciment bœtique synthétisé à basse température par la méthode sèche en utilisant un minéralisateur. <i>MATEC Web of Conferences</i> , 2014 , 11, 01021 | 0.3 | 0 |
| 5 | Improvement of two-component grouts by the use of ground granulated blast furnace slag. <i>Tunnelling and Underground Space Technology</i> , 2022 , 122, 104369 | 5.7 | 0 |
| 4 | Concrete made of 100% recycled materials - Feasibility study. <i>Resources, Conservation and Recycling</i> , 2022 , 180, 106199 | 11.9 | 0 |
| 3 | Use of metakaolin in grouts intended for soil nailing. <i>MATEC Web of Conferences</i> , 2012 , 2, 02002 | 0.3 | |
| 2 | Etude de la réactivité pouzzolanique d'une roche andéitique en Algérie. <i>MATEC Web of Conferences</i> , 2012 , 2, 01007 | 0.3 | |
| 1 | Titanium in GGBS-like calcium-magnesium-aluminosilicate glasses: Its role in the glass network, dissolution at alkaline pH and surface layer formation. <i>Journal of Non-Crystalline Solids</i> , 2022 , 591, 121708 ⁹ | 3.9 | |