

Patrice Rivard

List of Publications by Citations

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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.

69
papers

1,501
citations

24
h-index

37
g-index

75
ext. papers

1,801
ext. citations

5.2
avg, IF

4.76
L-index

#	Paper	IF	Citations
69	Influence of supplementary cementitious materials on engineering properties of high strength concrete. <i>Construction and Building Materials</i> , 2011 , 25, 2639-2648	6.7	243
68	Evaluating damage during shear tests of rock joints using acoustic emissions. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2010 , 47, 590-598	6	117
67	Direct shear tests on cemented paste backfill back wall and cemented paste backfill backfill interfaces. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2016 , 8, 472-479	5.3	65
66	Concrete Quality Designation based on Ultrasonic Pulse Velocity. <i>Construction and Building Materials</i> , 2016 , 125, 1022-1027	6.7	61
65	Effectiveness of nondestructive testing for the evaluation of alkali-silica reaction in concrete. <i>Construction and Building Materials</i> , 2010 , 24, 1398-1403	6.7	48
64	Measurement of alkali-silica reaction progression by ultrasonic waves attenuation. <i>Cement and Concrete Research</i> , 2007 , 37, 948-956	10.3	45
63	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
62	Shear mechanism of rock joints under pre-peak cyclic loading condition. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016 , 83, 197-210	6	39
61	Assessing alkali-silica reaction damage to concrete with non-destructive methods: From the lab to the field. <i>Construction and Building Materials</i> , 2009 , 23, 902-909	6.7	38
60	Assessment of the expansion related to alkali-silica reaction by the Damage Rating Index method. <i>Construction and Building Materials</i> , 2005 , 19, 83-90	6.7	37
59	Decrease of pore solution alkalinity in concrete tested for alkali-silica reaction. <i>Materials and Structures/Materiaux Et Constructions</i> , 2007 , 40, 909-921	3.4	36
58	Valorization of unauthorized sea disposal dredged sediments as a road foundation material. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 1997-2007	2.6	35
57	Evaluation of Concrete Distributed Cracks by Ultrasonic Travel Time Shift Under an External Mechanical Perturbation: Study of Indirect and Semi-direct Transmission Configurations. <i>Journal of Nondestructive Evaluation</i> , 2013 , 32, 25-36	2.1	34
56	Geometric Effect of Asperities on Shear Mechanism of Rock Joints. <i>Rock Mechanics and Rock Engineering</i> , 2016 , 49, 801-820	5.7	31
55	Evaluating the damage in reinforced concrete slabs under bending test with the energy of ultrasonic waves. <i>Construction and Building Materials</i> , 2014 , 73, 663-673	6.7	31
54	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
53	Correlating acoustic emission sources with damaged zones during direct shear test of rock joints. <i>Canadian Geotechnical Journal</i> , 2012 , 49, 710-718	3.2	30

52	Mineralogical and chemical assessment of concrete damaged by the oxidation of sulfide-bearing aggregates: Importance of thaumasite formation on reaction mechanisms. <i>Cement and Concrete Research</i> , 2012 , 42, 1336-1347	10.3	29
51	Alkali mass balance during the accelerated concrete prism test for alkali-aggregate reactivity. <i>Cement and Concrete Research</i> , 2003 , 33, 1147-1153	10.3	29
50	Monitoring of an hydraulic structure affected by ASR: A case study. <i>Cement and Concrete Research</i> , 2010 , 40, 676-680	10.3	28
49	Damage assessment for concrete structure using image processing techniques on acoustic borehole imagery. <i>Construction and Building Materials</i> , 2009 , 23, 3166-3174	6.7	27
48	Influence of environmental parameters on application of standard ASTM C876-91: half cell potential measurements. <i>Corrosion Engineering Science and Technology</i> , 2008 , 43, 93-96	1.7	27
47	Application of acoustic emission for monitoring shear behavior of bonded concrete-block joints under direct shear test. <i>Canadian Journal of Civil Engineering</i> , 2012 , 39, 887-896	1.3	26
46	Internal deterioration of concrete by the oxidation of pyrrhotitic aggregates. <i>Cement and Concrete Research</i> , 2005 , 35, 99-107	10.3	25
45	Non-destructive evaluation of cracks in massive concrete using normal dc resistivity logging. <i>NDT and E International</i> , 2014 , 63, 11-20	4.1	23
44	Characterization of the ASR rim: Application to the Potsdam sandstone. <i>Cement and Concrete Research</i> , 2002 , 32, 1259-1267	10.3	23
43	Quantitative Petrographic Technique for Concrete Damage Due to ASR: Experimental and Application. <i>Cement, Concrete and Aggregates</i> , 2000 , 22, 63		18
42	Combining nonlinear acoustics and physico-chemical analysis of aggregates to improve alkali-silica reaction monitoring. <i>Cement and Concrete Research</i> , 2015 , 67, 44-51	10.3	17
41	Development of self-compacting mortars based on treated marine sediments. <i>Journal of Building Engineering</i> , 2019 , 22, 252-261	5.2	17
40	Modeling the spatial variability of the shear strength of discontinuities of rock masses: Application to a dam rock mass. <i>Engineering Geology</i> , 2017 , 220, 133-143	6	15
39	Comparison of Joint Shearing Resistance Obtained with the Barton and Choubey Criterion and with Direct Shear Tests. <i>Rock Mechanics and Rock Engineering</i> , 2016 , 49, 3357-3361	5.7	15
38	Feasibility of using marine sediments in SCC pastes as supplementary cementitious materials. <i>Powder Technology</i> , 2019 , 344, 730-740	5.2	15
37	Valorization of dredged sediments in self-consolidating concrete: Fresh, hardened, and microstructural properties. <i>Journal of Cleaner Production</i> , 2020 , 263, 121472	10.3	14
36	Effects of freezing and thawing cycles on the shear resistance of concrete lift joints. <i>Canadian Journal of Civil Engineering</i> , 2012 , 39, 1089-1099	1.3	13
35	Roughness Effects on the Shear Strength of Concrete and Rock Joints in Dams Based on Experimental Data. <i>Rock Mechanics and Rock Engineering</i> , 2019 , 52, 3867-3888	5.7	12

34	Neural-network-based damage classification of bridge infrastructure using texture analysis. <i>Canadian Journal of Civil Engineering</i> , 2008 , 35, 258-267	1.3	12
33	Limitations of laser profilometry in measuring surface topography of polycrystalline rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012 , 52, 56-60	6	11
32	Characterization of rock discontinuity openings using acoustic wave amplitude [Application to a metamorphic rock mass. <i>Engineering Geology</i> , 2015 , 193, 402-411	6	11
31	Durability study of concrete incorporating dredged sediments. <i>Case Studies in Construction Materials</i> , 2019 , 11, e00244	2.7	10
30	Experimental Study of Crack Closure on Heterogeneous Quasi-Brittle Material. <i>Journal of Engineering Mechanics - ASCE</i> , 2015 , 141, 04015041	2.4	10
29	Impact of Acid Attack on the Shear Behaviour of a Carbonate Rock Joint. <i>Rock Mechanics and Rock Engineering</i> , 2017 , 50, 1439-1451	5.7	9
28	Effect of drying&wetting on the alkali concentration of the concrete pore solution. <i>Cement and Concrete Research</i> , 2003 , 33, 927-929	10.3	9
27	Impact of the alkali&silica reaction products on slow dynamics behavior of concrete. <i>Cement and Concrete Research</i> , 2011 , 41, 422-428	10.3	8
26	Condition assessment of concrete in hydraulic structures by surface wave non-destructive testing. <i>Materials and Structures/Materiaux Et Constructions</i> , 2009 , 42, 251-261	3.4	8
25	Measuring electrical properties of mortar and concrete samples using the spectral induced polarization method: laboratory set-up. <i>Construction and Building Materials</i> , 2019 , 210, 1-12	6.7	7
24	Effect of the Temperature on the Nonlinear Acoustic Behavior of Reinforced Concrete Using Dynamic Acoustoelastic Method of Time Shift. <i>Journal of Nondestructive Evaluation</i> , 2014 , 33, 288-298	2.1	7
23	Assessment of Corroded Rock Bolts with Pulse Echo Tests. <i>Journal of Infrastructure Systems</i> , 2017 , 23, 04017007	2.9	6
22	Evaluation of damages due to alkali-silica reaction with nonlinear acoustics techniques 2009 ,		6
21	Nonlinear Acoustic Technique of Time Shift for Evaluation of Alkali-Silica Reaction Damage in Concrete Structures. <i>ACI Materials Journal</i> , 2014 , 111,	0.9	6
20	Influence of Roughness on the Apparent Cohesion of Rock Joints at Low Normal Stresses. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020 , 146, 04020003	3.4	6
19	Durability and transport properties of SCC incorporating dredged sediments. <i>Construction and Building Materials</i> , 2021 , 288, 123116	6.7	6
18	Damages to residential buildings related to pyritic rockfills: field results of an investigation on the south shore of Montreal, Quebec, Canada. <i>Canadian Journal of Civil Engineering</i> , 2002 , 29, 246-255	1.3	5
17	The shape effect on the morphology of the fracture surface induced by the Brazilian test. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017 , 93, 201-209	6	4

16	Damage classification of concrete structures based on grey level co-occurrence matrix using Haar discrete wavelet transform. <i>Computers and Concrete</i> , 2007 , 4, 243-257		4
15	Application of the mechanical perturbation produced by traffic as a new approach of nonlinear acoustic technique for detecting microcracks in the concrete: A laboratory simulation 2012 ,		3
14	The application of a new oxidation mortar bar test to mixtures containing different cementing systems. <i>Construction and Building Materials</i> , 2018 , 173, 775-785	6.7	3
13	Characterization of discontinuities inside massive concrete structures with normal dc resistivity logging. <i>Journal of Applied Geophysics</i> , 2015 , 120, 69-80	1.7	2
12	Validation of complex electrical properties of concrete affected by accelerated alkali-silica reaction. <i>Cement and Concrete Composites</i> , 2020 , 113, 103660	8.6	2
11	Experimental Assessment of the Tensile Bond Strength of Mortar-Mortar Interfaces: Effects of Interface Roughness and Mortar Strength. <i>Geotechnical Testing Journal</i> , 2018 , 41, 20170173	1.3	2
10	Fluvial Sediments as SCMs: Characterization, Pozzolanic Performance, and Optimization of Equivalent Binder. <i>Journal of Materials in Civil Engineering</i> , 2022 , 34,	3	2
9	A Case Study of the Self-Potential Method to Characterize Seepage and Earth Dam Materials 2013 , 943-948		2
8	Nondestructive Assessment of Alkali-Silica Reaction in Concrete: A Review 2013 , 317-322		1
7	Non-destructive non-invasive assessment of the development of alkali-silica reaction in concrete by spectral induced polarization: Evaluation of the complex electrical properties. <i>Construction and Building Materials</i> , 2020 , 238, 117719	6.7	1
6	Rock mass properties and their suitability as a foundation for a rolled compacted concrete gravity dam: case study of Beni Haroun dam (Mila, NE Algeria). <i>Bulletin of Engineering Geology and the Environment</i> , 2021 , 80, 1729-1743	4	1
5	Influence of Material Strength on the Apparent Cohesion of Unbounded Gravity Dam Joints under Low Normal Stress. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147, 06021037	1.4	1
4	Field Assessment of ASR-Affected Structures. <i>RILEM State-of-the-Art Reports</i> , 2021 , 41-93	1.3	
3	Comparative Study of Nonlinear Resonance and Wave Interaction Techniques for Concrete Damage Assessment 2013 , 137-142		
2	Assessment of bonding, delamination and interfaces 2012 , 227-262		
1	Performance of Rock Pins Galvanized Layers Assessed with Non-Destructive Method. <i>Experimental Techniques</i> ,1	1.4	