

Patrick Paultre

List of Publications by Year in Descending Order

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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.

88
papers

2,541
citations

28
h-index

49
g-index

95
ext. papers

2,920
ext. citations

2.9
avg, IF

5.29
L-index

#	Paper	IF	Citations
88	Expected seismic performance of gravity dams using machine learning techniques. <i>Bulletin of the New Zealand Society for Earthquake Engineering</i> , 2021 , 54, 58-68	0.5	1
87	Hybrid testing of capacity designed RC structural walls for the determination of nonlinear seismic shear amplification. <i>Earthquake Engineering and Structural Dynamics</i> , 2021 , 50, 3266-3287	4	
86	Influence of synthetic fibers on the seismic behavior of reinforced-concrete circular columns. <i>Engineering Structures</i> , 2021 , 228, 111493	4.7	6
85	Accounting for Uncertainties in the Safety Assessment of Concrete Gravity Dams: A Probabilistic Approach with Sample Optimization. <i>Water (Switzerland)</i> , 2021 , 13, 855	3	4
84	High-order finite element model of bridge rubber bearings for the prediction of buckling and shear failure. <i>Engineering Structures</i> , 2021 , 240, 112314	4.7	1
83	Experimental Evaluation of Inelastic Higher-Mode Effects on the Seismic Behavior of RC Structural Walls. <i>Journal of Structural Engineering</i> , 2020 , 146, 04020016	3	9
82	Metamodel-Based Seismic Fragility Analysis of Concrete Gravity Dams. <i>Journal of Structural Engineering</i> , 2020 , 146, 04020121	3	23
81	Influence of soil-structure interaction on seismic demands in shear wall building gravity load frames. <i>Engineering Structures</i> , 2019 , 198, 109259	4.7	7
80	Modelling and Characterizing a Concrete Gravity Dam for Fragility Analysis. <i>Infrastructures</i> , 2019 , 4, 62	2.6	5
79	On the Seismic Fragility Assessment of Concrete Gravity Dams in Eastern Canada. <i>Earthquake Spectra</i> , 2019 , 35, 211-231	3.4	7
78	Forced-Vibration Tests and Numerical Modeling of the Daniel-Johnson Multiple-Arch Dam. <i>Journal of Performance of Constructed Facilities</i> , 2018 , 32, 04017137	2	9
77	Experimental determination of the lateral stability and shear failure limit states of bridge rubber bearings. <i>Engineering Structures</i> , 2018 , 174, 39-48	4.7	15
76	Compressive behavior of FRP-confined reinforced concrete columns. <i>Engineering Structures</i> , 2017 , 132, 518-530	4.7	72
75	Damage mechanics applied to performance-based design of reinforced concrete columns. <i>Earthquake Engineering and Structural Dynamics</i> , 2017 , 46, 2439-2457	4	1
74	Dynamic characterization of machining robot and stability analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 82, 351-359	3.2	80
73	Using the Conditional Spectrum Method for Improved Fragility Assessment of Concrete Gravity Dams in Eastern Canada. <i>Earthquake Spectra</i> , 2016 , 32, 1449-1468	3.4	19
72	Seismic Fragility of Concrete Gravity Dams with Spatial Variation of Angle of Friction: Case Study. <i>Journal of Structural Engineering</i> , 2016 , 142, 05015002	3	33

71	Detection and prediction of seismic damage to a high-strength concrete moment resisting frame structure. <i>Engineering Structures</i> , 2016 , 114, 209-225	4.7	12
70	LAS: A programming language and development environment for learning matrix structural analysis. <i>Computer Applications in Engineering Education</i> , 2016 , 24, 89-100	1.6	2
69	Performance evaluation of natural rubber seismic isolators as a retrofit measure for typical multi-span concrete bridges in eastern Canada. <i>Engineering Structures</i> , 2014 , 74, 300-310	4.7	13
68	Fragility curves for isolated bridges in eastern Canada using experimental results. <i>Engineering Structures</i> , 2014 , 74, 311-324	4.7	39
67	Damage to engineered structures during the 12 January 2010, Haiti (Lògñe) earthquake. <i>Canadian Journal of Civil Engineering</i> , 2013 , 40, 777-790	1.3	5
66	2013 ,		6
65	Modal identification based on the time-frequency domain decomposition of unknown-input dynamic tests. <i>International Journal of Mechanical Sciences</i> , 2013 , 71, 41-50	5.5	35
64	Damage model for FRP-confined concrete columns under cyclic loading. <i>Engineering Structures</i> , 2013 , 48, 519-531	4.7	21
63	Seismic Fragility of a Highway Bridge in Quebec. <i>Journal of Bridge Engineering</i> , 2013 , 18, 1131-1139	2.7	28
62	Analysis of a damaged 12-storey frame-wall concrete building during the 2010 Haiti earthquake Part I: Dynamic behaviour assessment. <i>Canadian Journal of Civil Engineering</i> , 2013 , 40, 791-802	1.3	3
61	Analysis of a damaged 12-storey frame-wall concrete building during the 2010 Haiti earthquake Part II: Nonlinear numerical simulations. <i>Canadian Journal of Civil Engineering</i> , 2013 , 40, 803-814	1.3	7
60	Fragility curves of typical as-built highway bridges in eastern Canada. <i>Engineering Structures</i> , 2012 , 40, 107-118	4.7	64
59	Modal identification based on continuous wavelet transform and ambient excitation tests. <i>Journal of Sound and Vibration</i> , 2012 , 331, 2023-2037	3.9	46
58	Seismic force demand on ductile reinforced concrete shear walls subjected to western North American ground motions: Part 1 - parametric study. <i>Canadian Journal of Civil Engineering</i> , 2012 , 39, 723-737	1.3	12
57	Seismic force demand on ductile reinforced concrete shear walls subjected to western North American ground motions: Part 2 - new capacity design methods. <i>Canadian Journal of Civil Engineering</i> , 2012 , 39, 738-750	1.3	11
56	On calculating equivalent static seismic forces in the 2005 National Building Code of Canada. <i>Canadian Journal of Civil Engineering</i> , 2011 , 38, 476-481	1.3	
55	Seismic performance of a 12-storey ductile concrete shear wall system designed according to the 2005 National building code of Canada and the 2004 Canadian Standard Association standard A23.3. <i>Canadian Journal of Civil Engineering</i> , 2010 , 37, 1-16	1.3	17
54	Behavior of Steel Fiber-Reinforced High-Strength Concrete Columns under Uniaxial Compression. <i>Journal of Structural Engineering</i> , 2010 , 136, 1225-1235	3	94

53 Experiments on Large Structures **2010**, 201-232

52	Damage Identification in a Truss Tower by Regularized Model Updating. <i>Journal of Structural Engineering</i> , 2010 , 136, 307-316	3	34
51	Performance-based seismic retrofit of a bridge bent: Design and experimental validation. <i>Canadian Journal of Civil Engineering</i> , 2010 , 37, 367-379	1.3	21
50	Evolution of seismic design provisions in the National building code of Canada. <i>Canadian Journal of Civil Engineering</i> , 2010 , 37, 1157-1170	1.3	45
49	Stress-strain curve for concrete in circular columns based on elastoplastic analysis. <i>Materials and Structures/Materiaux Et Constructions</i> , 2010 , 43, 63-79	3.4	1
48	Consistent regularization of nonlinear model updating for damage identification. <i>Mechanical Systems and Signal Processing</i> , 2009 , 23, 1965-1985	7.8	58
47	Normal- and High-Strength Concrete Circular Elements Wrapped with FRP Composites. <i>Journal of Composites for Construction</i> , 2009 , 13, 113-124	3.3	92
46	Background to seismic design provisions in CSA A23.3-04 for high-strength concrete. <i>Canadian Journal of Civil Engineering</i> , 2009 , 36, 565-579	1.3	1
45	Toward a better understanding of the dynamic characteristics of single-storey braced steel frame buildings in Canada. <i>Canadian Journal of Civil Engineering</i> , 2009 , 36, 969-979	1.3	6
44	FRP Wrapping of RC Structures Submitted to Seismic Loads. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2009 , 297-305	0.2	
43	Confinement Reinforcement Design for Reinforced Concrete Columns. <i>Journal of Structural Engineering</i> , 2008 , 134, 738-749	3	55
42	Seismic performance of a full-scale, reinforced high-performance concrete building. Part II: Analytical study. <i>Canadian Journal of Civil Engineering</i> , 2008 , 35, 849-862	1.3	8
41	Analytical Model for FRP-Confined Circular Reinforced Concrete Columns. <i>Journal of Composites for Construction</i> , 2008 , 12, 541-552	3.3	50
40	Seismic performance of a full-scale, reinforced high-performance concrete building. Part I: Experimental study. <i>Canadian Journal of Civil Engineering</i> , 2008 , 35, 832-848	1.3	8
39	Assessment of the frequency domain decomposition technique by forced-vibration tests of a full-scale structure. <i>Earthquake Engineering and Structural Dynamics</i> , 2008 , 37, 487-494	4	23
38	Plasticity-based model for circular concrete columns confined with fibre-composite sheets. <i>Engineering Structures</i> , 2007 , 29, 3301-3311	4.7	30
37	Structural damage detection using nonlinear parameter identification with Tikhonov regularization. <i>Structural Control and Health Monitoring</i> , 2007 , 14, 406-427	4.5	35
36	Discussion of "Making use of brace overstrength to improve the seismic response of multistorey split-X concentrically braced steel frames". <i>Canadian Journal of Civil Engineering</i> , 2007 , 34, 686-687	1.3	1

35	Elastoplastic Confinement Model for Circular Concrete Columns. <i>Journal of Structural Engineering</i> , 2007 , 133, 1821-1831	3	12
34	Damage Mechanics Modeling of Nonlinear Seismic Behavior of Concrete Structures. <i>Journal of Structural Engineering</i> , 2005 , 131, 946-955	3	75
33	A new boundary condition for energy radiation in covered reservoirs using BEM. <i>Engineering Analysis With Boundary Elements</i> , 2005 , 29, 903-911	2.6	10
32	Dynamic response of a concrete dam impounding an ice-covered reservoir: Part I. Mathematical modelling. <i>Canadian Journal of Civil Engineering</i> , 2004 , 31, 956-964	1.3	7
31	Dynamic response of a concrete dam impounding an ice-covered reservoir: Part II. Parametric and numerical study. <i>Canadian Journal of Civil Engineering</i> , 2004 , 31, 965-976	1.3	8
30	Numerical response analysis in dynamic engineering problems. <i>Revue Européenne De Génie Civil</i> , 2003 , 7, 831-880		1
29	A closed-form formulation for earthquake-induced hydrodynamic pressure on gravity dams. <i>Journal of Sound and Vibration</i> , 2003 , 261, 573-582	3.9	34
28	Uniaxial Confinement Model for Normal- and High-Strength Concrete Columns. <i>Journal of Structural Engineering</i> , 2003 , 129, 241-252	3	160
27	Seismic force modification factors for the proposed 2005 edition of the National Building Code of Canada. <i>Canadian Journal of Civil Engineering</i> , 2003 , 30, 308-327	1.3	73
26	An experimental evaluation of ice cover effects on the dynamic behaviour of a concrete gravity dam. <i>Earthquake Engineering and Structural Dynamics</i> , 2002 , 31, 2067-2082	4	15
25	Two-dimensional modelling of ice cover effects for the dynamic analysis of concrete gravity dams. <i>Earthquake Engineering and Structural Dynamics</i> , 2002 , 31, 2083-2102	4	25
24	Three-dimensional analysis of concrete dams including contraction joint non-linearity. <i>Engineering Structures</i> , 2002 , 24, 757-771	4.7	49
23	Distribution of moments in reinforced concrete slabs with continuous drop panels. <i>Canadian Journal of Civil Engineering</i> , 2002 , 29, 119-124	1.3	
22	An experimental investigation of water level effects on the dynamic behaviour of a large arch dam. <i>Earthquake Engineering and Structural Dynamics</i> , 2001 , 30, 1147-1166	4	54
21	Closure to "Strain Localization in Confined High-Strength Concrete Columns" by Daniel Cusson, François de Larrard, Claude Boulay, and Patrick Paultre. <i>Journal of Structural Engineering</i> , 1998 , 124, 1092 ³ 1093 ¹		
20	Dynamic Testing of Large-Scale Structures. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 1997 , 7, 29-34	1	4
19	Strain Localization in Confined High-Strength Concrete Columns. <i>Journal of Structural Engineering</i> , 1996 , 122, 1055-1061	3	17
18	Dynamic Testing Procedures for Highway Bridges Using Traffic Loads. <i>Journal of Structural Engineering</i> , 1995 , 121, 362-376	3	60

17	Stress-Strain Model for Confined High-Strength Concrete. <i>Journal of Structural Engineering</i> , 1995 , 121, 468-477	3	288
16	Role of Spandrel Beams on Response of Slab-Beam-Column Connections. <i>Journal of Structural Engineering</i> , 1995 , 121, 408-419	3	13
15	Ductility and overstrength in seismic design of reinforced concrete structures. <i>Canadian Journal of Civil Engineering</i> , 1994 , 21, 1049-1060	1.3	30
14	High-Strength Concrete Columns Confined by Rectangular Ties. <i>Journal of Structural Engineering</i> , 1994 , 120, 783-804	3	209
13	Reply: Bridge dynamics and dynamic amplification factors – a review of analytical and experimental findings. <i>Canadian Journal of Civil Engineering</i> , 1993 , 20, 878-878	1.3	2
12	Microcomputer analysis of reinforced concrete slab systems. <i>Canadian Journal of Civil Engineering</i> , 1993 , 20, 587-601	1.3	4
11	Bridge dynamics and dynamic amplification factors – a review of analytical and experimental findings. <i>Canadian Journal of Civil Engineering</i> , 1992 , 19, 260-278	1.3	111
10	Elastic analysis of frames considering panel zones deformations. <i>Computers and Structures</i> , 1991 , 39, 689-697	4.5	4
9	Computer-Aided Education in Structural Dynamics. <i>Journal of Computing in Civil Engineering</i> , 1991 , 5, 374-390	5	7
8	Seismic response of concentrically braced steel frames. <i>Canadian Journal of Civil Engineering</i> , 1991 , 18, 1062-1077	1.3	13
7	CAL/CGI – An application of graphics for matrix structural analysis education. <i>Computers and Graphics</i> , 1991 , 15, 131-135	1.8	1
6	Multiple-support seismic analysis of large structures. <i>Computers and Structures</i> , 1990 , 36, 1153-1158	4.5	60
5	Computer graphics for computer assisted learning of structural analysis. <i>Computers and Structures</i> , 1990 , 36, 1159-1166	4.5	2
4	Seismic response of reinforced concrete frame subassemblages – Canadian code perspective. <i>Canadian Journal of Civil Engineering</i> , 1989 , 16, 627-649	1.3	13
3	Inelastic seismic shear amplification due to higher mode effects in reinforced concrete coupled walls. <i>Earthquake Spectra</i> , 875529302110533	3.4	1
2	Measuring Earthquake Damages to a High Strength Concrete Structure 221-250		
1	Seismic fragility of bridges: An approach coupling multiple-stripe analysis and Gaussian mixture for multicomponent structures. <i>Earthquake Spectra</i> , 875529302110361	3.4	1