

Chris P Pantelides

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.

132
papers

2,512
citations

29
h-index

43
g-index

151
ext. papers

2,883
ext. citations

3.3
avg, IF

5.48
L-index

#	Paper	IF	Citations
132	Shear Strengthening of RCT-Joints Using CFRP Composites. <i>Journal of Composites for Construction</i> , 2000 , 4, 56-64	3.3	106
131	Axial Load Behavior of Concrete Columns Confined with GFRP Spirals. <i>Journal of Composites for Construction</i> , 2013 , 17, 305-313	3.3	104
130	Seismic Analysis of Precast Concrete Bridge Columns Connected with Grouted Splice Sleeve Connectors. <i>Journal of Structural Engineering</i> , 2017 , 143, 04016176	3	87
129	Seismic evaluation of grouted splice sleeve connections for reinforced precast concrete column-to-beam joints in accelerated bridge construction. <i>PCI Journal</i> , 2015 , 60, 80-103	2.1	87
128	Seismic Column-to-Footing Connections Using Grouted Splice Sleeves. <i>ACI Structural Journal</i> , 2016 , 113,	1.7	75
127	Linear and nonlinear pounding of structural systems. <i>Computers and Structures</i> , 1998 , 66, 79-92	4.5	71
126	Optimum structural design via convex model superposition. <i>Computers and Structures</i> , 2000 , 74, 639-647	4.5	70
125	Seismic Rehabilitation of Reinforced Concrete Frame Interior Beam-Column Joints with FRP Composites. <i>Journal of Composites for Construction</i> , 2008 , 12, 435-445	3.3	68
124	Design of Trusses Under Uncertain Loads Using Convex Models. <i>Journal of Structural Engineering</i> , 1998 , 124, 318-329	3	68
123	Performance-based design using structural optimization. <i>Earthquake Engineering and Structural Dynamics</i> , 2000 , 29, 1677-1690	4	67
122	Retrofit of RC Bridge Pier with CFRP Advanced Composites. <i>Journal of Structural Engineering</i> , 1999 , 125, 1094-1099	3	67
121	Stress-Strain Model for Fiber-Reinforced Polymer-Confined Concrete. <i>Journal of Composites for Construction</i> , 2002 , 6, 233-240	3.3	59
120	Performance-Based Evaluation of Reinforced Concrete Building Exterior Joints for Seismic Excitation. <i>Earthquake Spectra</i> , 2002 , 18, 449-480	3.4	58
119	Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites. <i>Journal of Composites for Construction</i> , 1998 , 2, 165-174	3.3	51
118	Concrete column shape modification with FRP shells and expansive cement concrete. <i>Construction and Building Materials</i> , 2011 , 25, 396-405	6.7	41
117	Dynamic Timoshenko Beam-Columns on Elastic Media. <i>Journal of Structural Engineering</i> , 1988 , 114, 1524-1550	3.1550	39
116	Reinforced concrete and fiber reinforced concrete panels subjected to blast detonations and post-blast static tests. <i>Engineering Structures</i> , 2014 , 76, 24-33	4.7	38

115	Experimental Evaluation of Slender High-Strength Concrete Columns with GFRP and Hybrid Reinforcement. <i>Journal of Composites for Construction</i> , 2016 , 20, 04016050	3-3	38
114	COMPARISON OF FUZZY SET AND CONVEX MODEL THEORIES IN STRUCTURAL DESIGN. <i>Mechanical Systems and Signal Processing</i> , 2001 , 15, 499-511	7-8	35
113	Load and resistance convex models for optimum design. <i>Structural Optimization</i> , 1999 , 17, 259-268		35
112	Structural Performance of Hybrid GFRP/Steel Concrete Sandwich Panels. <i>Journal of Composites for Construction</i> , 2008 , 12, 570-576	3-3	34
111	Posttensioned FRP Composite Shells for Concrete Confinement. <i>Journal of Composites for Construction</i> , 2007 , 11, 81-90	3-3	34
110	Elliptical and circular FRP-confined concrete sections: A Mohr-Coulomb analytical model. <i>International Journal of Solids and Structures</i> , 2012 , 49, 881-898	3-1	33
109	Short and Medium Term Durability Evaluation of FRP-Confined Circular Concrete. <i>Journal of Composites for Construction</i> , 2006 , 10, 244-253	3-3	32
108	Repair of Cracked Aluminum Overhead Sign Structures with Glass Fiber Reinforced Polymer Composites. <i>Journal of Composites for Construction</i> , 2003 , 7, 118-126	3-3	31
107	Carbon-Fiber-Reinforced Polymer Seismic Retrofit of RC Bridge Bent: Design and In Situ Validation. <i>Journal of Composites for Construction</i> , 2002 , 6, 52-60	3-3	31
106	Acoustic emission monitoring of grouted splice sleeve connectors and reinforced precast concrete bridge assemblies. <i>Construction and Building Materials</i> , 2016 , 122, 537-547	6-7	31
105	CONVEX MODEL FOR SEISMIC DESIGN OF STRUCTURES: ANALYSIS. <i>Earthquake Engineering and Structural Dynamics</i> , 1996 , 25, 927-944	4	29
104	Seismic Repair of Severely Damaged Precast Reinforced Concrete Bridge Columns Connected with Grouted Splice Sleeves. <i>ACI Structural Journal</i> , 2016 , 113,	1-7	29
103	Analytical buckling model for slender FRP-reinforced concrete columns. <i>Composite Structures</i> , 2017 , 176, 33-42	5-3	28
102	Residual drift mitigation for bridges retrofitted with buckling restrained braces or self centering energy dissipation devices. <i>Engineering Structures</i> , 2019 , 199, 109663	4-7	28
101	Rehabilitation of Cracked Aluminum Connections with GFRP Composites for Fatigue Stresses. <i>Journal of Composites for Construction</i> , 2007 , 11, 328-335	3-3	28
100	Confinement Model of Concrete with Externally Bonded FRP Jackets or Posttensioned FRP Shells. <i>Journal of Structural Engineering</i> , 2007 , 133, 1288-1296	3	27
99	Variable Strain Ductility Ratio for Fiber-Reinforced Polymer-Confined Concrete. <i>Journal of Composites for Construction</i> , 2002 , 6, 224-232	3-3	26
98	CONVEX MODEL FOR SEISMIC DESIGN OF STRUCTURES: DESIGN OF CONVENTIONAL AND ACTIVE STRUCTURES. <i>Earthquake Engineering and Structural Dynamics</i> , 1996 , 25, 945-963	4	25

97	Convex Models for Impulsive Response of Structures. <i>Journal of Engineering Mechanics - ASCE</i> , 1996 , 122, 521-529	2.4	24
96	Dynamic in-plane racking tests of curtain wall glass elements. <i>Earthquake Engineering and Structural Dynamics</i> , 1994 , 23, 211-228	4	24
95	Seismic Retrofit of a Three-Span RC Bridge with Buckling-Restrained Braces. <i>Journal of Bridge Engineering</i> , 2016 , 21, 04016073	2.7	24
94	Optimal design of dynamically constrained structures. <i>Computers and Structures</i> , 1997 , 62, 141-149	4.5	22
93	Seismic Retrofit of State Street Bridge on Interstate 80. <i>Journal of Bridge Engineering</i> , 2004 , 9, 333-342	2.7	22
92	In-Situ Verification of Rehabilitation and Repair of Reinforced Concrete Bridge Bents under Simulated Seismic Loads. <i>Earthquake Spectra</i> , 2001 , 17, 507-530	3.4	20
91	Strain-Based Confinement Model for FRP-Confined Concrete. <i>Journal of Structural Engineering</i> , 2007 , 133, 825-833	3	19
90	Postbreakage Behavior of Heat Strengthened Laminated Glass under Wind Effects. <i>Journal of Structural Engineering</i> , 1993 , 119, 454-467	3	19
89	Rapid repair and replacement of earthquake-damaged concrete columns using plastic hinge relocation. <i>Composite Structures</i> , 2017 , 180, 467-483	5.3	18
88	Stability of elastic bars on uncertain foundations using a convex model. <i>International Journal of Solids and Structures</i> , 1996 , 33, 1257-1269	3.1	18
87	Computer-aided design of optimal structures with uncertainty. <i>Computers and Structures</i> , 2000 , 74, 293-307	3.7	17
86	Bond Length of CFRP Composites Attached to Precast Concrete Walls. <i>Journal of Composites for Construction</i> , 1999 , 3, 168-176	3.3	17
85	Behavior of Welded Plate Connections in Precast Concrete Panels Under Simulated Seismic Loads. <i>PCI Journal</i> , 2002 , 47, 122-133	2.1	17
84	Seismic Strengthening of Reinforced-Concrete Multicolumn Bridge Piers. <i>Earthquake Spectra</i> , 2007 , 23, 635-664	3.4	16
83	Annealing Strategy for Optimal Structural Design. <i>Journal of Structural Engineering</i> , 1996 , 122, 815-827	3	16
82	Static Timoshenko Beam-Columns on Elastic Media. <i>Journal of Structural Engineering</i> , 1988 , 114, 1152-1172	3.2	16
81	Nonlinear rooftop tuned mass damper frame for the seismic retrofit of buildings. <i>Earthquake Engineering and Structural Dynamics</i> , 2015 , 44, 299-316	4	15
80	Mohr-coulomb model for rectangular and square FRP-confined concrete. <i>Composite Structures</i> , 2019 , 209, 889-904	5.3	15

79	Concentrated and Distributed Plasticity Models for Seismic Repair of Damaged RC Bridge Columns. <i>Journal of Composites for Construction</i> , 2018 , 22, 04018044	3.3	14
78	Repair of reinforced concrete deep beams using post-tensioned CFRP rods. <i>Composite Structures</i> , 2015 , 125, 256-265	5.3	14
77	One-Way Shear Behavior of Lightweight Concrete Panels Reinforced with GFRP Bars. <i>Journal of Composites for Construction</i> , 2012 , 16, 2-9	3.3	14
76	Shear Friction Capacity of Concrete with External Carbon FRP Strips. <i>Journal of Structural Engineering</i> , 2005 , 131, 1911-1919	3	14
75	Development of a loading history for seismic testing of architectural glass in a shop-front wall system. <i>Engineering Structures</i> , 1996 , 18, 917-935	4.7	14
74	Confinement Model for Concrete Columns Reinforced with GFRP Spirals. <i>Journal of Composites for Construction</i> , 2018 , 22, 04018007	3.3	13
73	Shear strength of GFRP reinforced precast lightweight concrete panels. <i>Construction and Building Materials</i> , 2013 , 48, 51-58	6.7	13
72	Modified iterated simulated annealing algorithm for structural synthesis. <i>Advances in Engineering Software</i> , 2000 , 31, 391-400	3.6	13
71	Strong-axis and weak-axis buckling and local bulging of buckling-restrained braces with prismatic core plates. <i>Engineering Structures</i> , 2017 , 153, 279-289	4.7	12
70	Buckling and postbuckling of stiffened elements with uncertainty. <i>Thin-Walled Structures</i> , 1996 , 26, 1-17	4.7	12
69	Rapid Seismic Repair of Reinforced Concrete Bridge Columns. <i>ACI Structural Journal</i> , 2017 , 114,	1.7	12
68	Collapse capacity of reinforced concrete skewed bridges retrofitted with buckling-restrained braces. <i>Engineering Structures</i> , 2019 , 184, 99-114	4.7	11
67	Rehabilitation of splice connections of wood trusses with FRP composites. <i>Construction and Building Materials</i> , 2010 , 24, 37-45	6.7	11
66	Buckling of Elastic Columns Using Convex Model of Uncertain Springs. <i>Journal of Engineering Mechanics - ASCE</i> , 1995 , 121, 837-844	2.4	11
65	Hybrid structural control using viscoelastic dampers and active control systems. <i>Earthquake Engineering and Structural Dynamics</i> , 1994 , 23, 1369-1388	4	11
64	Optimal placement of controllers for seismic structures. <i>Engineering Structures</i> , 1990 , 12, 254-262	4.7	11
63	Strut-and-tie model for interior RC beam-column joints with substandard details retrofitted with CFRP jackets. <i>Composite Structures</i> , 2017 , 165, 1-8	5.3	10
62	Seismic performance of reinforced concrete building exterior joints with substandard details. <i>Journal of Structural Integrity and Maintenance</i> , 2017 , 2, 1-11	1.5	10

61	Design of FRP Jackets for Plastic Hinge Confinement of RC Columns. <i>Journal of Composites for Construction</i> , 2013 , 17, 433-442	3.3	10
60	Long-Term Durability of State Street Bridge on Interstate 80. <i>Journal of Bridge Engineering</i> , 2006 , 11, 205-216	2.7	10
59	Analysis-Oriented Stress-Strain Model for Concrete Confined with Fiber-Reinforced Polymer Spirals. <i>ACI Structural Journal</i> , 2017 , 114,	1.7	10
58	A rooftop tuned mass damper frame. <i>Earthquake Engineering and Structural Dynamics</i> , 2003 , 32, 965-984	4	9
57	Post-breakage behavior of architectural glazing in Windstorms. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1992 , 44, 2425-2435	3.7	9
56	Behavior of R/C Bridge Bent with Grade Beam Retrofit under Simulated Earthquake Loads. <i>Earthquake Spectra</i> , 2004 , 20, 91-118	3.4	8
55	Edge Strength of Window Glass by Mechanical Test. <i>Journal of Engineering Mechanics - ASCE</i> , 1994 , 120, 1076-1090	2.4	8
54	Seismic Retrofit of Precast Concrete Panel Connections with Carbon Fiber Reinforced Polymer Composites. <i>PCI Journal</i> , 2003 , 48, 92-104	2.1	8
53	Seismic evaluation of repaired multi-column bridge bent using static and dynamic analysis. <i>Construction and Building Materials</i> , 2019 , 208, 792-807	6.7	7
52	Effect of incidence angle on the seismic performance of skewed bridges retrofitted with buckling-restrained braces. <i>Engineering Structures</i> , 2020 , 211, 110411	4.7	7
51	Performance of RC and FRC Wall Panels Reinforced with Mild Steel and GFRP Composites in Blast Events. <i>Procedia Engineering</i> , 2011 , 10, 3534-3539		7
50	Development of a Specification for Bridge Seismic Retrofit with Carbon Fiber Reinforced Polymer Composites. <i>Journal of Composites for Construction</i> , 2004 , 8, 88-96	3.3	7
49	New unibody clamp anchors for post-tensioning carbon-fiber-reinforced polymer rods. <i>PCI Journal</i> , 2014 , 59, 103-113	2.1	7
48	Shear capacity of concrete slabs reinforced with glass-fiber-reinforced polymer bars using the modified compression field theory. <i>PCI Journal</i> , 2012 , 57, 83-99	2.1	7
47	Unidirectional GFRP composite connections between precast concrete wall panels under simulated seismic loads. <i>Composite Structures</i> , 2018 , 203, 624-635	5.3	6
46	Optimum design of actively controlled structures. <i>Earthquake Engineering and Structural Dynamics</i> , 1990 , 19, 583-596	4	6
45	Computer-controlled structures. <i>Computers and Structures</i> , 1990 , 34, 715-725	4.5	6
44	Development of Timber Buckling Restrained Brace for Mass Timber-Braced Frames. <i>Journal of Structural Engineering</i> , 2021 , 147, 04021050	3	6

43	Self-Centering Bridge Bent with Stretch Length Anchors as a Tension-Only Hysteretic Hybrid System. <i>Journal of Structural Engineering</i> , 2021 , 147, 04021163	3	6
42	Effects of Ground Motion Incidence Angles in a Reinforced Concrete Skewed Bridge Retrofitted with Buckling Restrained Braces 2017 ,		5
41	Strut-and-tie models of repaired precast concrete bridge substructures with CFRP shell. <i>Composite Structures</i> , 2016 , 138, 161-171	5.3	5
40	CFRP Composite Connector for Concrete Members. <i>Journal of Composites for Construction</i> , 2003 , 7, 73-83	3.3	5
39	Continuous pulse control of structures with material non-linearity. <i>Earthquake Engineering and Structural Dynamics</i> , 1995 , 24, 263-282	4	5
38	Stretch Length Anchor Bolts under Combined Tension and Shear. <i>ACI Structural Journal</i> , 2018 , 115,	1.7	5
37	Comparison of the Seismic Retrofit of a Three-Column Bridge Bent with Buckling Restrained Braces and Self Centering Braces 2017 ,		4
36	Rapid Seismic Repair of Severely Damaged Reinforced Concrete Bridge Piers 2017 ,		4
35	Case Study of Strategies for Seismic Rehabilitation of Reinforced Concrete Multicolumn Bridge Bents. <i>Journal of Bridge Engineering</i> , 2012 , 17, 139-150	2.7	4
34	Active structures considering energy dissipation through damping and plastic yielding. <i>Computers and Structures</i> , 1998 , 66, 411-433	4.5	4
33	Resilient Posttensioned Bridge Bent with Buckling Restrained Brace. <i>Journal of Bridge Engineering</i> , 2022 , 27,	2.7	4
32	Full-Scale Shake Table Test Damage Data Collection Using Terrestrial Laser-Scanning Techniques. <i>Journal of Structural Engineering</i> , 2021 , 147, 04020356	3	4
31	Shear Capacity of CFRP Posttensioned Grouted Transverse Joints under Concentrated Loads. <i>Journal of Bridge Engineering</i> , 2016 , 21, 04016040	2.7	3
30	Bridge Constructed with GFRP-Reinforced Precast Concrete Deck Panels: Case Study. <i>Journal of Bridge Engineering</i> , 2014 , 19, 05014001	2.7	3
29	Comparison of linear and nonlinear seismic drift histories for midrise steel frames. <i>Engineering Structures</i> , 1996 , 18, 577-588	4.7	3
28	Dynamic Properties of Concrete at Moderately Elevated Temperatures. <i>ACI Materials Journal</i> , 2015 , 112,	0.9	3
27	Bidirectional GFRP-Composite Connections between Precast Concrete Wall Panels under Simulated Seismic Load. <i>Journal of Composites for Construction</i> , 2018 , 22, 04018014	3.3	2
26	Seismic Performance of Curved Bridges on Soft Soils Retrofitted with Buckling Restrained Braces 2016 ,		2

25	Experimental Investigation of Reduced Beam Section Moment Connections without Continuity Plates. <i>Earthquake Spectra</i> , 2004 , 20, 1185-1209	3-4	2
24	Continuous pulse and hybrid control of structures. <i>Structural Design of Tall Buildings</i> , 1995 , 4, 127-136		2
23	Construction and monitoring of a single-span bridge with precast concrete glass-fiberreinforced polymer reinforced deck panels. <i>PCI Journal</i> , 2013 , 58, 78-95	2.1	2
22	Performance of CFRP posttensioned transverse grouted joints for full-depth precast concrete panels. <i>PCI Journal</i> , 2015 , 60, 39-49	2.1	2
21	Seismic repair of deficient and code compliant bridge wall piers. <i>Engineering Structures</i> , 2021 , 233, 111595	4.7	2
20	Short-Span and Full-Scale Experiments of a Prefabricated Composite Floor-Building System. <i>Journal of Performance of Constructed Facilities</i> , 2016 , 30, 04015018	2	2
19	Analytical Models for Seismic Repair of Bridge Columns Using Plastic Hinge Relocation 2018 ,		1
18	Base geometry influence on impact load failure of a traffic signal pole. <i>Engineering Structures</i> , 2016 , 123, 482-489	4-7	1
17	Seismic Anchorage of Dry Storage Casks Using Stretch Length Anchors 2017 ,		1
16	Behavior of Concrete Panels Reinforced with Synthetic Fibers, Mild Steel, and GFRP Composites Subjected to Blasts 2012 ,		1
15	Simulated annealing for the design of structures with time-varying constraints. <i>Structural Optimization</i> , 1997 , 13, 36-44		1
14	Active structures with uncertainties. <i>International Journal of Computer Applications in Technology</i> , 2000 , 13, 59	0.7	1
13	Continuous pulse control of nonlinear structures. <i>Computers and Structures</i> , 1995 , 55, 997-1006	4.5	1
12	Active control of wind-excited structures. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1990 , 36, 189-202	3.7	1
11	Lifting of GFRP Precast Concrete Bridge Deck Panels. <i>Journal of Performance of Constructed Facilities</i> , 2015 , 29, 04014075	2	0
10	Concrete Column Shape Modification with FRP and Expansive Cement Concrete 2011 , 824-828		
9	Structural Performance of Stapled Wood Shear Walls Under Dynamic Cyclic Loads. <i>Earthquake Spectra</i> , 2009 , 25, 161-183	3-4	
8	Closure to Annealing Strategy for Optimal Structural Design by Shyh-Rong Tzan and Chris P. Pantelides. <i>Journal of Structural Engineering</i> , 1997 , 123, 1278-1278	3	

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|---|---|-----|
| 7 | Review of Information-gap decision theory: Decisions under severe uncertainty by Yakov Ben-Haim. <i>Journal of Structural Engineering</i> , 2002 , 128, 688-688 | 3 |
| 6 | Modified Solution for Finding the Optimal Angle of Spacecraft Walls Under Orbital Debris Impacts. <i>AIAA Journal</i> , 1993 , 31, 1162-1165 | 2.1 |
| 5 | Control of seismic response of turbomachin foundations. <i>Earthquake Engineering and Structural Dynamics</i> , 1991 , 20, 839-848 | 4 |
| 4 | Stability of columns on biparametric foundations. <i>Computers and Structures</i> , 1992 , 42, 21-29 | 4.5 |
| 3 | Closure to Dynamic Timoshenko Beam-Columns on Elastic Media by Franklin Y. Cheng and Chris P. Pantelides (July, 1988, Vol. 114, No. 7). <i>Journal of Structural Engineering</i> , 1990 , 116, 560-561 | 3 |
| 2 | Flexural Strengthening of Substandard Reinforced Concrete Bridge Wall Piers with CFRP Systems under Cyclic Loads. <i>Journal of Composites for Construction</i> , 2021 , 25, 04021010 | 3.3 |
| 1 | Maximum Dynamic-Load Allowance of Bridge with GFRP-Reinforced Concrete Deck. <i>Journal of Performance of Constructed Facilities</i> , 2016 , 30, 04015060 | 2 |