

# Chris P Pantelides

## List of Publications by Year in descending order

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144  
papers

3,336  
citations

126907  
33  
h-index

182427  
51  
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151  
all docs

151  
docs citations

151  
times ranked

1698  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic Analysis of Precast Concrete Bridge Columns Connected with Grouted Splice Sleeve Connectors. Journal of Structural Engineering, 2017, 143, .	3.4	150
2	Axial Load Behavior of Concrete Columns Confined with GFRP Spirals. Journal of Composites for Construction, 2013, 17, 305-313.	3.2	140
3	Seismic evaluation of grouted splice sleeve connections for reinforced precast concrete column-to-cap beam joints in accelerated bridge construction. PCI Journal, 2015, 60, 80-103.	0.6	131
4	Shear Strengthening of RCT-Joints Using CFRP Composites. Journal of Composites for Construction, 2000, 4, 56-64.	3.2	125
5	Seismic Column-to-Footing Connections Using Grouted Splice Sleeves. ACI Structural Journal, 2016, 113, .	0.2	112
6	Seismic Rehabilitation of Reinforced Concrete Frame Interior Beam-Column Joints with FRP Composites. Journal of Composites for Construction, 2008, 12, 435-445.	3.2	90
7	Performance-Based Evaluation of Reinforced Concrete Building Exterior Joints for Seismic Excitation. Earthquake Spectra, 2002, 18, 449-480.	3.1	87
8	Performance-based design using structural optimization. Earthquake Engineering and Structural Dynamics, 2000, 29, 1677-1690.	4.4	85
9	Linear and nonlinear pounding of structural systems. Computers and Structures, 1998, 66, 79-92.	4.4	83
10	Design of Trusses Under Uncertain Loads Using Convex Models. Journal of Structural Engineering, 1998, 124, 318-329.	3.4	82
11	Optimum structural design via convex model superposition. Computers and Structures, 2000, 74, 639-647.	4.4	81
12	Retrofit of RC Bridge Pier with CFRP Advanced Composites. Journal of Structural Engineering, 1999, 125, 1094-1099.	3.4	80
13	Stress-Strain Model for Fiber-Reinforced Polymer-Confined Concrete. Journal of Composites for Construction, 2002, 6, 233-240.	3.2	72
14	Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites. Journal of Composites for Construction, 1998, 2, 165-174.	3.2	59
15	Experimental Evaluation of Slender High-Strength Concrete Columns with GFRP and Hybrid Reinforcement. Journal of Composites for Construction, 2016, 20, .	3.2	59
16	Concrete column shape modification with FRP shells and expansive cement concrete. Construction and Building Materials, 2011, 25, 396-405.	7.2	49
17	Residual drift mitigation for bridges retrofitted with buckling restrained braces or self centering energy dissipation devices. Engineering Structures, 2019, 199, 109663.	5.3	47
18	Seismic Retrofit of a Three-Span RC Bridge with Buckling-Restrained Braces. Journal of Bridge Engineering, 2016, 21, .	2.9	46

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19	Dynamic Timoshenko Beam–Columns on Elastic Media. Journal of Structural Engineering, 1988, 114, 1524-1550.	3.4	45
20	Structural Performance of Hybrid GFRP/Steel Concrete Sandwich Panels. Journal of Composites for Construction, 2008, 12, 570-576.	3.2	45
21	Reinforced concrete and fiber reinforced concrete panels subjected to blast detonations and post-blast static tests. Engineering Structures, 2014, 76, 24-33.	5.3	45
22	Acoustic emission monitoring of grouted splice sleeve connectors and reinforced precast concrete bridge assemblies. Construction and Building Materials, 2016, 122, 537-547.	7.2	45
23	Analytical buckling model for slender FRP-reinforced concrete columns. Composite Structures, 2017, 176, 33-42.	5.8	44
24	Seismic Repair of Severely Damaged Precast Reinforced Concrete Bridge Columns Connected with Grouted Splice Sleeves. ACI Structural Journal, 2016, 113, .	0.2	44
25	Posttensioned FRP Composite Shells for Concrete Confinement. Journal of Composites for Construction, 2007, 11, 81-90.	3.2	41
26	Elliptical and circular FRP-confined concrete sections: A Mohr–Coulomb analytical model. International Journal of Solids and Structures, 2012, 49, 881-898.	2.7	41
27	Load and resistance convex models for optimum design. Structural Optimization, 1999, 17, 259-268.	0.6	40
28	COMPARISON OF FUZZY SET AND CONVEX MODEL THEORIES IN STRUCTURAL DESIGN. Mechanical Systems and Signal Processing, 2001, 15, 499-511.	8.0	40
29	Short and Medium Term Durability Evaluation of FRP-Confined Circular Concrete. Journal of Composites for Construction, 2006, 10, 244-253.	3.2	40
30	Repair of Cracked Aluminum Overhead Sign Structures with Glass Fiber Reinforced Polymer Composites. Journal of Composites for Construction, 2003, 7, 118-126.	3.2	38
31	Carbon-Fiber-Reinforced Polymer Seismic Retrofit of RC Bridge Bent: Design and In Situ Validation. Journal of Composites for Construction, 2002, 6, 52-60.	3.2	37
32	CONVEX MODEL FOR SEISMIC DESIGN OF STRUCTURES—I: ANALYSIS. Earthquake Engineering and Structural Dynamics, 1996, 25, 927-944.	4.4	36
33	Confinement Model of Concrete with Externally Bonded FRP Jackets or Posttensioned FRP Shells. Journal of Structural Engineering, 2007, 133, 1288-1296.	3.4	34
34	Rehabilitation of Cracked Aluminum Connections with GFRP Composites for Fatigue Stresses. Journal of Composites for Construction, 2007, 11, 328-335.	3.2	32
35	Rapid repair and replacement of earthquake-damaged concrete columns using plastic hinge relocation. Composite Structures, 2017, 180, 467-483.	5.8	32
36	Variable Strain Ductility Ratio for Fiber-Reinforced Polymer-Confined Concrete. Journal of Composites for Construction, 2002, 6, 224-232.	3.2	31

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37	Dynamic in-plane racking tests of curtain wall glass elements. Earthquake Engineering and Structural Dynamics, 1994, 23, 211-228.	4.4	29
38	CONVEX MODEL FOR SEISMIC DESIGN OF STRUCTURES—II: DESIGN OF CONVENTIONAL AND ACTIVE STRUCTURES. Earthquake Engineering and Structural Dynamics, 1996, 25, 945-963.	4.4	28
39	Convex Models for Impulsive Response of Structures. Journal of Engineering Mechanics - ASCE, 1996, 122, 521-529.	2.9	28
40	Seismic Retrofit of State Street Bridge on Interstate 80. Journal of Bridge Engineering, 2004, 9, 333-342.	2.9	28
41	Collapse capacity of reinforced concrete skewed bridges retrofitted with buckling-restrained braces. Engineering Structures, 2019, 184, 99-114.	5.3	26
42	Behavior of Welded Plate Connections in Precast Concrete Panels Under Simulated Seismic Loads. PCI Journal, 2002, 47, 122-133.	0.6	26
43	In-Situ Verification of Rehabilitation and Repair of Reinforced Concrete Bridge Bents under Simulated Seismic Loads. Earthquake Spectra, 2001, 17, 507-530.	3.1	24
44	Postbreakage Behavior of Heat Strengthened Laminated Glass under Wind Effects. Journal of Structural Engineering, 1993, 119, 454-467.	3.4	23
45	Optimal design of dynamically constrained structures. Computers and Structures, 1997, 62, 141-149.	4.4	23
46	Seismic Strengthening of Reinforced-Concrete Multicolumn Bridge Piers. Earthquake Spectra, 2007, 23, 635-664.	3.1	23
47	Mohr-coulomb model for rectangular and square FRP-confined concrete. Composite Structures, 2019, 209, 889-904.	5.8	23
48	Static Timoshenko Beam—Columns on Elastic Media. Journal of Structural Engineering, 1988, 114, 1152-1172.	3.4	22
49	Annealing Strategy for Optimal Structural Design. Journal of Structural Engineering, 1996, 122, 815-827.	3.4	22
50	Bond Length of CFRP Composites Attached to Precast Concrete Walls. Journal of Composites for Construction, 1999, 3, 168-176.	3.2	22
51	Strain-Based Confinement Model for FRP-Confined Concrete. Journal of Structural Engineering, 2007, 133, 825-833.	3.4	22
52	Shear strength of GFRP reinforced precast lightweight concrete panels. Construction and Building Materials, 2013, 48, 51-58.	7.2	22
53	Confinement Model for Concrete Columns Reinforced with GFRP Spirals. Journal of Composites for Construction, 2018, 22, .	3.2	22
54	Stability of elastic bars on uncertain foundations using a convex model. International Journal of Solids and Structures, 1996, 33, 1257-1269.	2.7	21

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55	Computer-aided design of optimal structures with uncertainty. Computers and Structures, 2000, 74, 293-307.	4.4	20
56	Repair of reinforced concrete deep beams using post-tensioned CFRP rods. Composite Structures, 2015, 125, 256-265.	5.8	20
57	Strong-axis and weak-axis buckling and local bulging of buckling-restrained braces with prismatic core plates. Engineering Structures, 2017, 153, 279-289.	5.3	20
58	Concentrated and Distributed Plasticity Models for Seismic Repair of Damaged RC Bridge Columns. Journal of Composites for Construction, 2018, 22, .	3.2	19
59	One-Way Shear Behavior of Lightweight Concrete Panels Reinforced with GFRP Bars. Journal of Composites for Construction, 2012, 16, 2-9.	3.2	18
60	Development of a loading history for seismic testing of architectural glass in a shop-front wall system. Engineering Structures, 1996, 18, 917-935.	5.3	17
61	Shear Friction Capacity of Concrete with External Carbon FRP Strips. Journal of Structural Engineering, 2005, 131, 1911-1919.	3.4	17
62	Analysis-Oriented Stress-Strain Model for Concrete Confined with Fiber-Reinforced Polymer Spirals. ACI Structural Journal, 2017, 114, .	0.2	17
63	Nonlinear rooftop tuned mass damper frame for the seismic retrofit of buildings. Earthquake Engineering and Structural Dynamics, 2015, 44, 299-316.	4.4	16
64	Rapid Seismic Repair of Reinforced Concrete Bridge Columns. ACI Structural Journal, 2017, 114, .	0.2	16
65	Seismic performance of reinforced concrete building exterior joints with substandard details. Journal of Structural Integrity and Maintenance, 2017, 2, 1-11.	1.5	15
66	Self-Centering Bridge Bent with Stretch Length Anchors as a Tension-Only Hysteretic Hybrid System. Journal of Structural Engineering, 2021, 147, .	3.4	15
67	Modified iterated simulated annealing algorithm for structural synthesis. Advances in Engineering Software, 2000, 31, 391-400.	3.8	14
68	Strut-and-tie model for interior RC beam-column joints with substandard details retrofitted with CFRP jackets. Composite Structures, 2017, 165, 1-8.	5.8	14
69	Effect of incidence angle on the seismic performance of skewed bridges retrofitted with buckling-restrained braces. Engineering Structures, 2020, 211, 110411.	5.3	14
70	Optimal placement of controllers for seismic structures. Engineering Structures, 1990, 12, 254-262.	5.3	13
71	Buckling and postbuckling of stiffened elements with uncertainty. Thin-Walled Structures, 1996, 26, 1-17.	5.3	13
72	Seismic evaluation of repaired multi-column bridge bent using static and dynamic analysis. Construction and Building Materials, 2019, 208, 792-807.	7.2	13

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73	Development of Timber Buckling Restrained Brace for Mass Timber-Braced Frames. Journal of Structural Engineering, 2021, 147, .	3.4	13
74	Post-breakage behavior of architectural glazing in Windstorms. Journal of Wind Engineering and Industrial Aerodynamics, 1992, 44, 2425-2435.	3.9	12
75	Hybrid structural control using viscoelastic dampers and active control systems. Earthquake Engineering and Structural Dynamics, 1994, 23, 1369-1388.	4.4	12
76	Edge Strength of Window Glass by Mechanical Test. Journal of Engineering Mechanics - ASCE, 1994, 120, 1076-1090.	2.9	11
77	Buckling of Elastic Columns Using Convex Model of Uncertain Springs. Journal of Engineering Mechanics - ASCE, 1995, 121, 837-844.	2.9	11
78	A rooftop tuned mass damper frame. Earthquake Engineering and Structural Dynamics, 2003, 32, 965-984.	4.4	11
79	Behavior of R/C Bridge Bent with Grade Beam Retrofit under Simulated Earthquake Loads. Earthquake Spectra, 2004, 20, 91-118.	3.1	11
80	Rehabilitation of splice connections of wood trusses with FRP composites. Construction and Building Materials, 2010, 24, 37-45.	7.2	11
81	Shear capacity of concrete slabs reinforced with glass-fiber-reinforced polymer bars using the modified compression field theory. PCI Journal, 2012, 57, 83-99.	0.6	11
82	Resilient Posttensioned Bridge Bent with Buckling Restrained Brace. Journal of Bridge Engineering, 2022, 27, .	2.9	11
83	Long-Term Durability of State Street Bridge on Interstate 80. Journal of Bridge Engineering, 2006, 11, 205-216.	2.9	10
84	Design of FRP Jackets for Plastic Hinge Confinement of RC Columns. Journal of Composites for Construction, 2013, 17, 433-442.	3.2	10
85	Unidirectional GFRP composite connections between precast concrete wall panels under simulated seismic loads. Composite Structures, 2018, 203, 624-635.	5.8	10
86	Seismic Retrofit of Precast Concrete Panel Connections with Carbon Fiber Reinforced Polymer Composites. PCI Journal, 2003, 48, 92-104.	0.6	10
87	Development of a Specification for Bridge Seismic Retrofit with Carbon Fiber Reinforced Polymer Composites. Journal of Composites for Construction, 2004, 8, 88-96.	3.2	9
88	Performance of RC and FRC Wall Panels Reinforced with Mild Steel and GFRP Composites in Blast Events. Procedia Engineering, 2011, 10, 3534-3539.	1.2	9
89	New unibody clamp anchors for post-tensioning carbon-fiber-reinforced polymer rods. PCI Journal, 2014, 59, 103-113.	0.6	9
90	Full-Scale Shake Table Test Damage Data Collection Using Terrestrial Laser-Scanning Techniques. Journal of Structural Engineering, 2021, 147, .	3.4	8

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91	Optimum design of actively controlled structures. Earthquake Engineering and Structural Dynamics, 1990, 19, 583-596.	4.4	7
92	Computer-controlled structures. Computers and Structures, 1990, 34, 715-725.	4.4	7
93	Stretch Length Anchor Bolts under Combined Tension and Shear. ACI Structural Journal, 2018, 115, .	0.2	7
94	Strut-and-tie models of repaired precast concrete bridge substructures with CFRP shell. Composite Structures, 2016, 138, 161-171.	5.8	6
95	Continuous pulse control of structures with material non-linearity. Earthquake Engineering and Structural Dynamics, 1995, 24, 263-282.	4.4	5
96	Active structures considering energy dissipation through damping and plastic yielding. Computers and Structures, 1998, 66, 411-433.	4.4	5
97	CFRP Composite Connector for Concrete Members. Journal of Composites for Construction, 2003, 7, 73-82.	3.2	5
98	Effects of Ground Motion Incidence Angles in a Reinforced Concrete Skewed Bridge Retrofitted with Buckling Restrained Braces. , 2017, , .		5
99	Rapid Seismic Repair of Severely Damaged Reinforced Concrete Bridge Piers. , 2017, , .		5
100	Seismic repair of deficient and code compliant bridge wall piers. Engineering Structures, 2021, 233, 111595.	5.3	5
101	Case Study of Strategies for Seismic Rehabilitation of Reinforced Concrete Multicolumn Bridge Bents. Journal of Bridge Engineering, 2012, 17, 139-150.	2.9	4
102	Bridge Constructed with GFRP-Reinforced Precast Concrete Deck Panels: Case Study. Journal of Bridge Engineering, 2014, 19, 05014001.	2.9	4
103	Comparison of the Seismic Retrofit of a Three-Column Bridge Bent with Buckling Restrained Braces and Self Centering Braces. , 2017, , .		4
104	Axial compression capacity of concrete columns reinforced with corrosion-resistant metallic reinforcement. Journal of Infrastructure Preservation and Resilience, 2021, 2, .	3.2	4
105	Construction and monitoring of a single-span bridge with precast concrete glass-fiberreinforced polymer reinforced deck panels. PCI Journal, 2013, 58, 78-95.	0.6	4
106	Performance of CFRP posttensioned transverse grouted joints for full-depth precast concrete panels. PCI Journal, 2015, 60, 39-49.	0.6	4
107	Comparison of linear and nonlinear seismic drift histories for midrise steel frames. Engineering Structures, 1996, 18, 577-588.	5.3	3
108	Short-Span and Full-Scale Experiments of a Prefabricated Composite Floor-Building System. Journal of Performance of Constructed Facilities, 2016, 30, .	2.0	3

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109	Shear Capacity of CFRP Posttensioned Grouted Transverse Joints under Concentrated Loads. Journal of Bridge Engineering, 2016, 21, .	2.9	3
110	Dynamic Properties of Concrete at Moderately Elevated Temperatures. ACI Materials Journal, 2015, 112, .	0.2	3
111	Continuous pulse and hybrid control of structures. Structural Design of Tall Buildings, 1995, 4, 127-136.	0.3	2
112	Experimental Investigation of Reduced Beam Section Moment Connections without Continuity Plates. Earthquake Spectra, 2004, 20, 1185-1209.	3.1	2
113	Behavior of Concrete Panels Reinforced with Synthetic Fibers, Mild Steel, and GFRP Composites Subjected to Blasts. , 2012, , .		2
114	Base geometry influence on impact load failure of a traffic signal pole. Engineering Structures, 2016, 123, 482-489.	5.3	2
115	Seismic Performance of Curved Bridges on Soft Soils Retrofitted with Buckling Restrained Braces. , 2016, , .		2
116	Bidirectional GFRP-Composite Connections between Precast Concrete Wall Panels under Simulated Seismic Load. Journal of Composites for Construction, 2018, 22, 04018014.	3.2	2
117	Post-tensioned Tendon Losses in a Spliced-Girder Bridge, Part 1: Field Measurements. PCI Journal, 2007, 52, 44-56.	0.6	2
118	Experimental evaluation of overlays for precast concrete decks used in accelerated bridge construction. PCI Journal, 2015, 60, 65-75.	0.6	2
119	Seismic Retrofit of Reinforced Concrete Moment Frame Using a BRB with U-Plate Connections. Journal of Structural Engineering, 2022, 148, .	3.4	2
120	Active control of wind-excited structures. Journal of Wind Engineering and Industrial Aerodynamics, 1990, 36, 189-202.	3.9	1
121	Stability of columns on biparametric foundations. Computers and Structures, 1992, 42, 21-29.	4.4	1
122	Continuous pulse control of nonlinear structures. Computers and Structures, 1995, 55, 997-1006.	4.4	1
123	Simulated annealing for the design of structures with time-varying constraints. Structural Optimization, 1997, 13, 36-44.	0.6	1
124	Active structures with uncertainties. International Journal of Computer Applications in Technology, 2000, 13, 59.	0.5	1
125	Strengthening Techniques: Bridges. , 2014, , 1-11.		1
126	Lifting of GFRP Precast Concrete Bridge Deck Panels. Journal of Performance of Constructed Facilities, 2015, 29, 04014075.	2.0	1



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127	Maximum Dynamic-Load Allowance of Bridge with GFRP-Reinforced Concrete Deck. Journal of Performance of Constructed Facilities, 2016, 30, .	2.0	1
128	Seismic Anchorage of Dry Storage Casks Using Stretch Length Anchors. , 2017, , .		1
129	Analytical Models for Seismic Repair of Bridge Columns Using Plastic Hinge Relocation. , 2018, , .		1
130	Flexural Strengthening of Substandard Reinforced Concrete Bridge Wall Piers with CFRP Systems under Cyclic Loads. Journal of Composites for Construction, 2021, 25, .	3.2	1
131	Analyzing steel moment-resisting connections using finite element modeling. Structures and Infrastructures Series, 2008, , 363-376.	0.2	1
132	Cyclic Tests and Modeling of Stretch Length Anchor Bolt Assemblies for Dry Storage Casks. ACI Structural Journal, 2020, 117, .	0.2	1
133	Closure to "Dynamic Timoshenko Beam" Columns on Elastic Media" by Franklin Y. Cheng and Chris P. Pantelides (July, 1988, Vol. 114, No. 7). Journal of Structural Engineering, 1990, 116, 560-561.	3.4	0
134	Control of seismic response of turbomachine foundations. Earthquake Engineering and Structural Dynamics, 1991, 20, 839-848.	4.4	0
135	Modified Solution for Finding the Optimal Angle of Spacecraft Walls Under Orbital Debris Impacts. AIAA Journal, 1993, 31, 1162-1165.	2.6	0
136	Response to Arbitrarily Time-Varying Forces Using Convex Model. , 1996, , 1252.		0
137	Closure to "Annealing Strategy for Optimal Structural Design" by Shyh-Rong Tzan and Chris P. Pantelides. Journal of Structural Engineering, 1997, 123, 1278-1278.	3.4	0
138	Review of Information-gap decision theory: Decisions under severe uncertainty by Yakov Ben-Haim. Journal of Structural Engineering, 2002, 128, 688-688.	3.4	0
139	Structural Performance of Stapled Wood Shear Walls Under Dynamic Cyclic Loads. Earthquake Spectra, 2009, 25, 161-183.	3.1	0
140	Concrete Column Shape Modification with FRP and Expansive Cement Concrete. , 2011, , 824-828.		0
141	Seismic Evaluation of Repaired Bridge Bent Using Dynamic Analysis. , 2020, , .		0
142	Post-tensioned Tendon Losses in a Spliced-Girder Bridge, Part 2: Analysis of Losses. PCI Journal, 2007, 52, 58-69.	0.6	0
143	Strengthening Techniques: Bridges. , 2015, , 3526-3535.		0
144	Precast Concrete Bridge Column-Footing Connections with Recessed Grouted Splice Sleeve Connectors. ACI Structural Journal, 2022, 119, .	0.2	0