

Chris P Pantelides

List of Publications by Year in descending order

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143
papers

3,336
citations

126858

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182361

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, .	1.7	150
2	Axial Load Behavior of Concrete Columns Confined with GFRP Spirals. Journal of Composites for Construction, 2013, 17, 305-313.	1.7	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.	0.4	131
4	Shear Strengthening of RCT-Joints Using CFRP Composites. Journal of Composites for Construction, 2000, 4, 56-64.	1.7	125
5	Seismic Column-to-Footing Connections Using Grouted Splice Sleeves. ACI Structural Journal, 2016, 113, .	0.3	112
6	Seismic Rehabilitation of Reinforced Concrete Frame Interior Beam-Column Joints with FRP Composites. Journal of Composites for Construction, 2008, 12, 435-445.	1.7	90
7	Performance-Based Evaluation of Reinforced Concrete Building Exterior Joints for Seismic Excitation. Earthquake Spectra, 2002, 18, 449-480.	1.6	87
8	Performance-based design using structural optimization. Earthquake Engineering and Structural Dynamics, 2000, 29, 1677-1690.	2.5	85
9	Linear and nonlinear pounding of structural systems. Computers and Structures, 1998, 66, 79-92.	2.4	83
10	Design of Trusses Under Uncertain Loads Using Convex Models. Journal of Structural Engineering, 1998, 124, 318-329.	1.7	82
11	Optimum structural design via convex model superposition. Computers and Structures, 2000, 74, 639-647.	2.4	81
12	Retrofit of RC Bridge Pier with CFRP Advanced Composites. Journal of Structural Engineering, 1999, 125, 1094-1099.	1.7	80
13	Stress-Strain Model for Fiber-Reinforced Polymer-Confined Concrete. Journal of Composites for Construction, 2002, 6, 233-240.	1.7	72
14	Bridge Pier Retrofit Using Fiber-Reinforced Plastic Composites. Journal of Composites for Construction, 1998, 2, 165-174.	1.7	59
15	Experimental Evaluation of Slender High-Strength Concrete Columns with GFRP and Hybrid Reinforcement. Journal of Composites for Construction, 2016, 20, .	1.7	59
16	Concrete column shape modification with FRP shells and expansive cement concrete. Construction and Building Materials, 2011, 25, 396-405.	3.2	49
17	Residual drift mitigation for bridges retrofitted with buckling restrained braces or self centering energy dissipation devices. Engineering Structures, 2019, 199, 109663.	2.6	47
18	Seismic Retrofit of a Three-Span RC Bridge with Buckling-Restrained Braces. Journal of Bridge Engineering, 2016, 21, .	1.4	46

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19	Dynamic Timoshenko Beam-Columns on Elastic Media. Journal of Structural Engineering, 1988, 114, 1524-1550.	1.7	45
20	Structural Performance of Hybrid GFRP/Steel Concrete Sandwich Panels. Journal of Composites for Construction, 2008, 12, 570-576.	1.7	45
21	Reinforced concrete and fiber reinforced concrete panels subjected to blast detonations and post-blast static tests. Engineering Structures, 2014, 76, 24-33.	2.6	45
22	Acoustic emission monitoring of grouted splice sleeve connectors and reinforced precast concrete bridge assemblies. Construction and Building Materials, 2016, 122, 537-547.	3.2	45
23	Analytical buckling model for slender FRP-reinforced concrete columns. Composite Structures, 2017, 176, 33-42.	3.1	44
24	Seismic Repair of Severely Damaged Precast Reinforced Concrete Bridge Columns Connected with Grouted Splice Sleeves. ACI Structural Journal, 2016, 113, .	0.3	44
25	Posttensioned FRP Composite Shells for Concrete Confinement. Journal of Composites for Construction, 2007, 11, 81-90.	1.7	41
26	Elliptical and circular FRP-confined concrete sections: A Mohr-Coulomb analytical model. International Journal of Solids and Structures, 2012, 49, 881-898.	1.3	41
27	Load and resistance convex models for optimum design. Structural Optimization, 1999, 17, 259-268.	0.7	40
28	COMPARISON OF FUZZY SET AND CONVEX MODEL THEORIES IN STRUCTURAL DESIGN. Mechanical Systems and Signal Processing, 2001, 15, 499-511.	4.4	40
29	Short and Medium Term Durability Evaluation of FRP-Confined Circular Concrete. Journal of Composites for Construction, 2006, 10, 244-253.	1.7	40
30	Repair of Cracked Aluminum Overhead Sign Structures with Glass Fiber Reinforced Polymer Composites. Journal of Composites for Construction, 2003, 7, 118-126.	1.7	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.	1.7	37
32	CONVEX MODEL FOR SEISMIC DESIGN OF STRUCTURES: ANALYSIS. Earthquake Engineering and Structural Dynamics, 1996, 25, 927-944.	2.5	36
33	Confinement Model of Concrete with Externally Bonded FRP Jackets or Posttensioned FRP Shells. Journal of Structural Engineering, 2007, 133, 1288-1296.	1.7	34
34	Rehabilitation of Cracked Aluminum Connections with GFRP Composites for Fatigue Stresses. Journal of Composites for Construction, 2007, 11, 328-335.	1.7	32
35	Rapid repair and replacement of earthquake-damaged concrete columns using plastic hinge relocation. Composite Structures, 2017, 180, 467-483.	3.1	32
36	Variable Strain Ductility Ratio for Fiber-Reinforced Polymer-Confined Concrete. Journal of Composites for Construction, 2002, 6, 224-232.	1.7	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.	2.5	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.	2.5	28
39	Convex Models for Impulsive Response of Structures. Journal of Engineering Mechanics - ASCE, 1996, 122, 521-529.	1.6	28
40	Seismic Retrofit of State Street Bridge on Interstate 80. Journal of Bridge Engineering, 2004, 9, 333-342.	1.4	28
41	Collapse capacity of reinforced concrete skewed bridges retrofitted with buckling-restrained braces. Engineering Structures, 2019, 184, 99-114.	2.6	26
42	Behavior of Welded Plate Connections in Precast Concrete Panels Under Simulated Seismic Loads. PCI Journal, 2002, 47, 122-133.	0.4	26
43	In-Situ Verification of Rehabilitation and Repair of Reinforced Concrete Bridge Bents under Simulated Seismic Loads. Earthquake Spectra, 2001, 17, 507-530.	1.6	24
44	Postbreakage Behavior of Heat Strengthened Laminated Glass under Wind Effects. Journal of Structural Engineering, 1993, 119, 454-467.	1.7	23
45	Optimal design of dynamically constrained structures. Computers and Structures, 1997, 62, 141-149.	2.4	23
46	Seismic Strengthening of Reinforced-Concrete Multicolumn Bridge Piers. Earthquake Spectra, 2007, 23, 635-664.	1.6	23
47	Mohr-coulomb model for rectangular and square FRP-confined concrete. Composite Structures, 2019, 209, 889-904.	3.1	23
48	Static Timoshenko Beam-Columns on Elastic Media. Journal of Structural Engineering, 1988, 114, 1152-1172.	1.7	22
49	Annealing Strategy for Optimal Structural Design. Journal of Structural Engineering, 1996, 122, 815-827.	1.7	22
50	Bond Length of CFRP Composites Attached to Precast Concrete Walls. Journal of Composites for Construction, 1999, 3, 168-176.	1.7	22
51	Strain-Based Confinement Model for FRP-Confined Concrete. Journal of Structural Engineering, 2007, 133, 825-833.	1.7	22
52	Shear strength of GFRP reinforced precast lightweight concrete panels. Construction and Building Materials, 2013, 48, 51-58.	3.2	22
53	Confinement Model for Concrete Columns Reinforced with GFRP Spirals. Journal of Composites for Construction, 2018, 22, .	1.7	22
54	Stability of elastic bars on uncertain foundations using a convex model. International Journal of Solids and Structures, 1996, 33, 1257-1269.	1.3	21

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55	Computer-aided design of optimal structures with uncertainty. Computers and Structures, 2000, 74, 293-307.	2.4	20
56	Repair of reinforced concrete deep beams using post-tensioned CFRP rods. Composite Structures, 2015, 125, 256-265.	3.1	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.	2.6	20
58	Concentrated and Distributed Plasticity Models for Seismic Repair of Damaged RC Bridge Columns. Journal of Composites for Construction, 2018, 22, .	1.7	19
59	One-Way Shear Behavior of Lightweight Concrete Panels Reinforced with GFRP Bars. Journal of Composites for Construction, 2012, 16, 2-9.	1.7	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.	2.6	17
61	Shear Friction Capacity of Concrete with External Carbon FRP Strips. Journal of Structural Engineering, 2005, 131, 1911-1919.	1.7	17
62	Analysis-Oriented Stress-Strain Model for Concrete Confined with Fiber-Reinforced Polymer Spirals. ACI Structural Journal, 2017, 114, .	0.3	17
63	Nonlinear rooftop tuned mass damper frame for the seismic retrofit of buildings. Earthquake Engineering and Structural Dynamics, 2015, 44, 299-316.	2.5	16
64	Rapid Seismic Repair of Reinforced Concrete Bridge Columns. ACI Structural Journal, 2017, 114, .	0.3	16
65	Seismic performance of reinforced concrete building exterior joints with substandard details. Journal of Structural Integrity and Maintenance, 2017, 2, 1-11.	0.7	15
66	Self-Centering Bridge Bent with Stretch Length Anchors as a Tension-Only Hysteretic Hybrid System. Journal of Structural Engineering, 2021, 147, .	1.7	15
67	Modified iterated simulated annealing algorithm for structural synthesis. Advances in Engineering Software, 2000, 31, 391-400.	1.8	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.	3.1	14
69	Effect of incidence angle on the seismic performance of skewed bridges retrofitted with buckling-restrained braces. Engineering Structures, 2020, 211, 110411.	2.6	14
70	Optimal placement of controllers for seismic structures. Engineering Structures, 1990, 12, 254-262.	2.6	13
71	Buckling and postbuckling of stiffened elements with uncertainty. Thin-Walled Structures, 1996, 26, 1-17.	2.7	13
72	Seismic evaluation of repaired multi-column bridge bent using static and dynamic analysis. Construction and Building Materials, 2019, 208, 792-807.	3.2	13

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73	Development of Timber Buckling Restrained Brace for Mass Timber-Braced Frames. Journal of Structural Engineering, 2021, 147, .	1.7	13
74	Post-breakage behavior of architectural glazing in Windstorms. Journal of Wind Engineering and Industrial Aerodynamics, 1992, 44, 2425-2435.	1.7	12
75	Hybrid structural control using viscoelastic dampers and active control systems. Earthquake Engineering and Structural Dynamics, 1994, 23, 1369-1388.	2.5	12
76	Edge Strength of Window Glass by Mechanical Test. Journal of Engineering Mechanics - ASCE, 1994, 120, 1076-1090.	1.6	11
77	Buckling of Elastic Columns Using Convex Model of Uncertain Springs. Journal of Engineering Mechanics - ASCE, 1995, 121, 837-844.	1.6	11
78	A rooftop tuned mass damper frame. Earthquake Engineering and Structural Dynamics, 2003, 32, 965-984.	2.5	11
79	Behavior of R/C Bridge Bent with Grade Beam Retrofit under Simulated Earthquake Loads. Earthquake Spectra, 2004, 20, 91-118.	1.6	11
80	Rehabilitation of splice connections of wood trusses with FRP composites. Construction and Building Materials, 2010, 24, 37-45.	3.2	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.	0.4	11
82	Resilient Posttensioned Bridge Bent with Buckling Restrained Brace. Journal of Bridge Engineering, 2022, 27, .	1.4	11
83	Long-Term Durability of State Street Bridge on Interstate 80. Journal of Bridge Engineering, 2006, 11, 205-216.	1.4	10
84	Design of FRP Jackets for Plastic Hinge Confinement of RC Columns. Journal of Composites for Construction, 2013, 17, 433-442.	1.7	10
85	Unidirectional GFRP composite connections between precast concrete wall panels under simulated seismic loads. Composite Structures, 2018, 203, 624-635.	3.1	10
86	Seismic Retrofit of Precast Concrete Panel Connections with Carbon Fiber Reinforced Polymer Composites. PCI Journal, 2003, 48, 92-104.	0.4	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.	1.7	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.	0.4	9
90	Full-Scale Shake Table Test Damage Data Collection Using Terrestrial Laser-Scanning Techniques. Journal of Structural Engineering, 2021, 147, .	1.7	8

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91	Optimum design of actively controlled structures. Earthquake Engineering and Structural Dynamics, 1990, 19, 583-596.	2.5	7
92	Computer-controlled structures. Computers and Structures, 1990, 34, 715-725.	2.4	7
93	Stretch Length Anchor Bolts under Combined Tension and Shear. ACI Structural Journal, 2018, 115, .	0.3	7
94	Strut-and-tie models of repaired precast concrete bridge substructures with CFRP shell. Composite Structures, 2016, 138, 161-171.	3.1	6
95	Continuous pulse control of structures with material non-linearity. Earthquake Engineering and Structural Dynamics, 1995, 24, 263-282.	2.5	5
96	Active structures considering energy dissipation through damping and plastic yielding. Computers and Structures, 1998, 66, 411-433.	2.4	5
97	CFRP Composite Connector for Concrete Members. Journal of Composites for Construction, 2003, 7, 73-82.	1.7	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.	2.6	5
101	Case Study of Strategies for Seismic Rehabilitation of Reinforced Concrete Multicolumn Bridge Bents. Journal of Bridge Engineering, 2012, 17, 139-150.	1.4	4
102	Bridge Constructed with GFRP-Reinforced Precast Concrete Deck Panels: Case Study. Journal of Bridge Engineering, 2014, 19, 05014001.	1.4	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, .	1.5	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.	0.4	4
106	Performance of CFRP posttensioned transverse grouted joints for full-depth precast concrete panels. PCI Journal, 2015, 60, 39-49.	0.4	4
107	Comparison of linear and nonlinear seismic drift histories for midrise steel frames. Engineering Structures, 1996, 18, 577-588.	2.6	3
108	Short-Span and Full-Scale Experiments of a Prefabricated Composite Floor-Building System. Journal of Performance of Constructed Facilities, 2016, 30, .	1.0	3

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109	Shear Capacity of CFRP Posttensioned Grouted Transverse Joints under Concentrated Loads. Journal of Bridge Engineering, 2016, 21, .	1.4	3
110	Dynamic Properties of Concrete at Moderately Elevated Temperatures. ACI Materials Journal, 2015, 112, .	0.3	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.	1.6	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.	2.6	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.	1.7	2
117	Post-tensioned Tendon Losses in a Spliced-Girder Bridge, Part 1: Field Measurements. PCI Journal, 2007, 52, 44-56.	0.4	2
118	Experimental evaluation of overlays for precast concrete decks used in accelerated bridge construction. PCI Journal, 2015, 60, 65-75.	0.4	2
119	Seismic Retrofit of Reinforced Concrete Moment Frame Using a BRB with U-Plate Connections. Journal of Structural Engineering, 2022, 148, .	1.7	2
120	Active control of wind-excited structures. Journal of Wind Engineering and Industrial Aerodynamics, 1990, 36, 189-202.	1.7	1
121	Stability of columns on biparametric foundations. Computers and Structures, 1992, 42, 21-29.	2.4	1
122	Continuous pulse control of nonlinear structures. Computers and Structures, 1995, 55, 997-1006.	2.4	1
123	Simulated annealing for the design of structures with time-varying constraints. Structural Optimization, 1997, 13, 36-44.	0.7	1
124	Active structures with uncertainties. International Journal of Computer Applications in Technology, 2000, 13, 59.	0.3	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.	1.0	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, .	1.0	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, .	1.7	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, .	0.3	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.	1.7	0
134	Control of seismic response of turbomachin foundations. Earthquake Engineering and Structural Dynamics, 1991, 20, 839-848.	2.5	0
135	Modified Solution for Finding the Optimal Angle of Spacecraft Walls Under Orbital Debris Impacts. AIAA Journal, 1993, 31, 1162-1165.	1.5	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.	1.7	0
138	Review of Information-gap decision theory: Decisions under severe uncertainty by Yakov Ben-Haim. Journal of Structural Engineering, 2002, 128, 688-688.	1.7	0
139	Structural Performance of Stapled Wood Shear Walls Under Dynamic Cyclic Loads. Earthquake Spectra, 2009, 25, 161-183.	1.6	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.	0.4	0
143	Strengthening Techniques: Bridges. , 2015, , 3526-3535.		0