Sri Sritharan

List of Publications by Year
in descending order

108	2,842	236612 25	189595 50
papers	citations	h-index	g-index

115	115	115	1307
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preliminary Results and Conclusions From the PRESSS Five-Story Precast Concrete Test Building. PCI Journal, 1999, 44, 42-67.	0.4	571
2	Seismic-Resistant Precast Concrete Structures: State of the Art. Journal of Structural Engineering, 2018, 144, .	1.7	267
3	Precast concrete wall with end columns (PreWEC) for earthquake resistant design. Earthquake Engineering and Structural Dynamics, 2015, 44, 2075-2092.	2.5	123
4	Understanding Poor Seismic Performance of Concrete Walls and Design Implications. Earthquake Spectra, 2014, 30, 307-334.	1.6	104
5	A simplified analysis method for characterizing unbonded post-tensioned precast wall systems. Engineering Structures, 2009, 31, 2966-2975.	2.6	103
6	Cyclic testing of unbonded post-tensioned concrete wall systems with and without supplemental damping. Engineering Structures, 2017, 140, 406-420.	2.6	82
7	Quantifying Bonding Characteristics between UHPC and Normal-Strength Concrete for Bridge Deck Application. Journal of Bridge Engineering, 2019, 24, .	1.4	68
8	Finite element analysis of the PreWEC self-centering concrete wall system. Engineering Structures, 2016, 115, 28-41.	2.6	66
9	Pile Setup in Cohesive Soil. I: Experimental Investigation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 199-209.	1.5	60
10	Single precast concrete rocking walls as earthquake forceâ€resisting elements. Earthquake Engineering and Structural Dynamics, 2017, 46, 753-769.	2.5	54
11	Vibration-based damage localization and quantification in a pretensioned concrete girder using stochastic subspace identification and particle swarm model updating. Structural Health Monitoring, 2020, 19, 587-605.	4.3	51
12	Performance-Based Seismic Evaluation of Two Five-Story Precast Concrete Hybrid Frame Buildings. Journal of Structural Engineering, 2007, 133, 1489-1500.	1.7	49
13	Improved Coefficient of Restitution Estimation for Free Rocking Members. Journal of Structural Engineering, 2016, 142, .	1.7	49
14	Cyclic Lateral Load Response of Bridge Column-Foundation-Soil Systems in Freezing Conditions. Journal of Structural Engineering, 2006, 132, 1745-1754.	1.7	47
15	Cyclic Response of Reinforced Concrete Walls with Different Anchorage Details: Experimental Investigation. Journal of Structural Engineering, 2013, 139, 1181-1191.	1.7	47
16	Effects of Seasonal Freezing on Bridge Columnâ€“Foundationâ€“Soil Interaction and Their Implications. Earthquake Spectra, 2007, 23, 199-222.	1.6	46
17	Pile Setup in Cohesive Soil. II: Analytical Quantifications and Design Recommendations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 210-222.	1.5	46
18	â€œUnderlyingâ€•Causes for Settlement of Bridge Approach Pavement Systems. Journal of Performance of Constructed Facilities, 2007, 21, 273-282.	1.0	41

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19	Current Design and Construction Practices of Bridge Pile Foundations with Emphasis on Implementation of LRFD. Journal of Bridge Engineering, 2010, 15, 749-758.	1.4	37
20	Concept and Finite-Element Modeling of New Steel Shear Connectors for Self-Centering Wall Systems. Journal of Engineering Mechanics - ASCE, 2010, 136, 220-229.	1.6	36
21	Bridge Decks with Precast UHPC Waffle Panels: A Field Evaluation and Design Optimization. Journal of Bridge Engineering, 2016, 21, .	1.4	35
22	An evaluation of force-based design vs. direct displacement-based design of jointed precast post-tensioned wall systems. Earthquake Engineering and Engineering Vibration, 2006, 5, 285-296.	1.1	34
23	Modelling the response of cyclically loaded bridge columns embedded in warm and seasonally frozen soils. Engineering Structures, 2010, 32, 933-943.	2.6	31
24	Residual drift analyses of realistic self-centering concrete wall systems. Earthquake and Structures, 2016, 10, 409-428.	1.0	29
25	Effect of low-rise building geometry on tornado-induced loads. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 133, 124-134.	1.7	26
26	Title is missing!. Journal of Earthquake Engineering, 2001, 5, 329.	1.4	25
27	First Application of UHPC Bridge Deck Overlay in North America. Transportation Research Record, 2018, 2672, 40-47.	1.0	25
28	Evaluating commercial feasibility of a new tall wind tower design concept using a stochastic levelized cost of energy model. Journal of Cleaner Production, 2019, 240, 118001.	4.6	25
29	Nonlinear finite element analyses of concrete bridge joint systems subjected to seismic actions. Finite Elements in Analysis and Design, 2000, 36, 215-233.	1.7	23
30	Lessons Learned from Seismic Analysis of a Seven-Story Concrete Test Building. Journal of Earthquake Engineering, 2010, 14, 448-469.	1.4	23
31	Side Shear Strength of Preformed Socket Connections Suitable for Vertical Precast Members. Journal of Bridge Engineering, 2019, 24, .	1.4	23
32	Characterizing Dynamic Decay of Motion of Free-Standing Rocking Members. Earthquake Spectra, 2018, 34, 843-866.	1.6	20
33	Design of Ultrahigh-Performance Concrete Waffle Deck for Accelerated Bridge Construction. Transportation Research Record, 2014, 2406, 12-22.	1.0	19
34	T-Shaped RC Structural Walls Subjected to Multidirectional Loading: Test Results and Design Recommendations. Journal of Structural Engineering, 2017, 143, .	1.7	19
35	Behavior of Driven Ultrahigh-Performance Concrete H-Piles Subjected to Vertical and Lateral Loadings. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 1403-1413.	1.5	18
36	Investigation on the Impact of Seasonally Frozen Soil on Seismic Response of Bridge Columns. Journal of Bridge Engineering, 2010, 15, 473-481.	1.4	18

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37	Structural Behavior of Waffle Bridge Deck Panels and Connections of Precast Ultra-High-Performance Concrete. Transportation Research Record, 2011, 2251, 82-92.	1.0	18
38	Introduction to PILOT Database and Establishment of LRFD Resistance Factors for the Construction Control of Driven Steel H-Piles. Journal of Bridge Engineering, 2011, 16, 728-738.	1.4	18
39	Full-Scale Seismic Testing of Piles in Improved and Unimproved Soft Clay. Earthquake Spectra, 2016, 32, 239-265.	1.6	18
40	Effects of Confinement in Circular Hollow Concrete Columns. Journal of Structural Engineering, 2018, 144, .	1.7	18
41	Characterization of Seasonally Frozen Soils for Seismic Design of Foundations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	1.5	17
42	Investigation of ultra high performance concrete piles for integral abutment bridges. Engineering Structures, 2015, 105, 220-230.	2.6	17
43	A procedure for incorporating setup into load and resistance factor design of driven piles. Acta Geotechnica, 2016, 11, 347-358.	2.9	17
44	Seismic response of precast, posttensioned concrete jointed wall systems designed for low- to midrise buildings using the direct displacement-based approach. PCI Journal, 2015, 60, 38-56.	0.4	17
45	LRFD Resistance Factors for Design of Driven H-Piles in Layered Soils. Journal of Bridge Engineering, 2011, 16, 739-748.	1.4	16
46	Outdoor Test of a Prefabricated Columnâ€“Pile Capâ€“Pile System under Combined Vertical and Lateral Loads. Journal of Bridge Engineering, 2020, 25, .	1.4	16
47	Properties and microstructure of extrusion-based 3D printing mortar containing a highly flowable, rapid set grout. Cement and Concrete Composites, 2021, 124, 104243.	4.6	15
48	Effects of Cold Temperature and Strain Rate on the Stress-Strain Behavior of ASTM A706 Grade 420(60) Steel Reinforcement. Journal of Materials in Civil Engineering, 2012, 24, 1441-1449.	1.3	13
49	Behavior of unbonded post-tensioning monostrand anchorage systems under short duration, high amplitude cyclical loading. Engineering Structures, 2015, 104, 116-125.	2.6	12
50	Application of Strut-and-Tie Concepts to Concrete Bridge Joints in Seismic Regions. PCI Journal, 2003, 48, 66-90.	0.4	12
51	Monotonic non-linear analysis of reinforced concrete knee joints using strut-and-tie computer models. Bulletin of the New Zealand Society for Earthquake Engineering, 2001, 34, 169-190.	0.2	12
52	Influence of different damping components on dynamic response of concrete rocking walls. Engineering Structures, 2020, 212, 110468.	2.6	11
53	Attenuation of peak ground accelerations in some recent New Zealand earthquakes. Bulletin of the New Zealand Society for Earthquake Engineering, 1993, 26, 3-13.	0.2	11
54	Effects of confinement in square hollow concrete column sections. Engineering Structures, 2019, 191, 526-535.	2.6	10

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55	Verification of Recommended Load and Resistance Factor Design and Construction of Piles in Cohesive Soils. Transportation Research Record, 2012, 2310, 49-58.	1.0	9
56	Cyclic and seismic response of single piles in improved and unimproved soft clays. Acta Geotechnica, 2016, 11, 1431-1444.	2.9	9
57	Generalized dynamic analysis of structural single rocking walls (SRWs). Earthquake Engineering and Structural Dynamics, 2020, 49, 633-656.	2.5	9
58	Enhanced Load-Transfer Analysis for Friction Piles Using a Modified Borehole Shear Test. Geotechnical Testing Journal, 2012, 35, 20120071.	0.5	9
59	Microzone effects in the Hutt Valley in records from a strong-motion accelerograph array. Bulletin of the New Zealand Society for Earthquake Engineering, 1992, 25, 246-264.	0.2	9
60	Seismic Behavior of a Concrete/Steel Integral Bridge Pier System. Journal of Structural Engineering, 2005, 131, 1083-1094.	1.7	8
61	Dynamic Evaluation of PreWEC Systems with Varying Hysteretic Energy Dissipation. Journal of Structural Engineering, 2018, 144, 04018185.	1.7	8
62	Dynamic response and impact energy loss in controlled rocking members. Earthquake Engineering and Structural Dynamics, 2020, 49, 319-338.	2.5	8
63	Comparative response of rocking-wall systems with cast-in-place and precast floor systems in buildings. Engineering Structures, 2021, 234, 111942.	2.6	8
64	Strut-and-Tie Analysis of Bridge Tee Joints Subjected to Seismic Actions. Journal of Structural Engineering, 2005, 131, 1321-1333.	1.7	7
65	Strut-and-Tie Nonlinear Cyclic Analysis of Concrete Frames. Journal of Structural Engineering, 2009, 135, 1259-1268.	1.7	7
66	Improving dynamic soil parameters and advancing the pile signal matching technique. Computers and Geotechnics, 2013, 54, 166-174.	2.3	7
67	Seismic behavior of unbonded post-tensioned precast concrete members with thin rubber layers at the jointed connection. PCI Journal, 2021, 66, 60-76.	0.4	7
68	Performance of circular hollow concrete columns with a single layer of transverse reinforcement. Structures, 2021, 32, 15-27.	1.7	7
69	Peak ground accelerations recorded in the 1968 Inangahua earthquake and some attenuation implications. Bulletin of the New Zealand Society for Earthquake Engineering, 1993, 26, 349-355.	0.2	7
70	Seismic Performance of a Concrete Bridge Bent Consisting of Three Steel Shell Columns. Earthquake Spectra, 2011, 27, 107-132.	1.6	6
71	Integration of construction control and pile setup into load and resistance factor design of piles. Soils and Foundations, 2014, 54, 197-208.	1.3	6
72	Computational modelling of a four storey post-tensioned concrete building subjected to shake table testing. Bulletin of the New Zealand Society for Earthquake Engineering, 2017, 50, 595-607.	0.2	6

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73	Improved Seismic Design Procedure for Concrete Bridge Joints. Journal of Structural Engineering, 2005, 131, 1334-1344.	1.7	5
74	Modeling Load-Transfer Behavior of H-Piles Using Direct Shear and Penetration Test Results. Geotechnical Testing Journal, 2014, 37, 20130074.	0.5	5
75	Unbonded Post-Tensioned Structural Masonry Wall with Rubber Interface for Limited-Damage Systems. Journal of Structural Engineering, 2022, 148, .	1.7	5
76	Effects of vertical ground acceleration on the seismic moment demand of bridge superstructure connections. Engineering Structures, 2022, 253, 113820.	2.6	5
77	Girder Load Distribution for Seismic Design of Integral Bridges. Journal of Bridge Engineering, 2015, 20, .	1.4	4
78	Wind Energy Potential at Elevated Hub Heights in the US Midwest Region. Journal of Energy Engineering - ASCE, 2021, 147, .	1.0	4
79	STRUT-AND-TIE COMPUTER MODELLING OF REINFORCED CONCRETE BRIDGE JOINT SYSTEMS. Journal of Earthquake Engineering, 2003, 7, 463-493.	1.4	3
80	Performance of collapsible bridge approach backfill with geosynthetic drainage and reinforcement. Geosynthetics International, 2007, 14, 76-88.	1.5	3
81	Load and Resistance Factor Design Calibration for Bridge Pile Foundations. Transportation Research Record, 2011, 2204, 233-241.	1.0	3
82	Study of Interaction between a PreWEC System and Surrounding Structure. ACI Structural Journal, 2018, 115, .	0.3	3
83	A cost effective integral bridge system with precast concrete I-girders for seismic application. PCI Journal, 2015, 60, 76-95.	0.4	3
84	Characterization of Precast UHPC Pile Drivability. , 2009, , .		2
85	LRFD Resistance Factors Including the Influence of Pile Setup for Design of Steel H-Pile Using WEAP. , 2010, , .		2
86	Verification of LRFD approach for piles in sand and mixed soils. Soils and Foundations, 2015, 55, 678-690.	1.3	2
87	LRFD guides for driven piles considering pile set-up phenomenon. Geotechnical Research, 2017, 4, 67-81.	0.8	2
88	Delamination Assessment of an Ultra-High Performance Concrete Deck Overlay Using Infrared Imaging. , 2016, , .		2
89	A SIMPLE ANALYTICAL MODEL FOR THE ROCKING PREWEC SYSTEM. , 2016, , .		2
90	Lateral response of underground pipelines to earthquakes. Computers and Structures, 1994, 53, 601-611.	2.4	1

#	Article	IF	Citations
91	Closure to â€œPile Setup in Cohesive Soil. I: Experimental Investigationâ€•by Kam W. Ng, Matthew Roling, Sherif S. AbdelSalam, Muhannad T. Suleiman, and Sri Sritharan. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, 07013004.	1.5	1
92	Evaluation of Regionally Calibrated Load and Resistance Factor-Design Method Used for Driven-Steel H-Piles. Journal of Bridge Engineering, 2020, 25, .	1.4	1
93	Behavior of a Pile Group Supporting a Precast Pile Cap under Combined Vertical and Lateral Loads. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	1
94	Minimum confinement reinforcement for prestressed concrete piles and a rational seismic design framework. PCI Journal, 2016, 61, 51-69.	0.4	1
95	Strut-and-tie computer modelling of reinforced concrete bridge portal frames. Bulletin of the New Zealand Society for Earthquake Engineering, 2002, 35, 165-189.	0.2	1
96	UHPC Bridge Deck Overlay in Sioux County, Iowa. , 2019, , .		1
97	Creep and shrinkage effects in prestressed beams. Magazine of Concrete Research, 1995, 47, 45-55.	0.9	0
98	Lateral Load Response of a Reaction Column-Foundation System in Different Temperature Conditions. , 2009, , .		0
99	Investigation of LRFD Resistance Factors with Consideration to Soil Variability along the Pile Length. , 2011, , .		0
100	Closure to â€œCyclic Response of Reinforced Concrete Walls with Different Anchorage Details: Experimental Investigationâ€•by Sriram Aaleti, Beth L. Brueggen, Benton Johnson, Catherine E. French, and Sri Sritharan. Journal of Structural Engineering, 2014, 140, 07014004.	1.7	0
101	Special Collection on Recent Advances in Reinforced Concrete Walls Designed to Resist Seismic Loads. Journal of Structural Engineering, 2018, 144, 02018002.	1.7	0
102	Response of low-rise buildings to moderate ground shaking, particularly the May 1990 Weber earthquake. Bulletin of the New Zealand Society for Earthquake Engineering, 1994, 27, 205-221.	0.2	0
103	Design Optimization of Bridge Decks with Precast UHPC Waffle Panels. , 2016, , .		0
104	Experimental and Analytical Investigation of UHPC Pile-to-Abutment Connections. , 2016, , .		0
105	Field Investigation of Ultra-High Performance Concrete Piles. , 2016, , .		0
106	UHPC Bridge Deck Overlay â€” Impact of Key Design Variables. , 2019, , .		0
107	Long Span UHPC Double Tees for Building Structures â€“ A Design Process. , 2019, , .		0
108	Effects of Size and Gauge length on the Stress-Strain Response of UHPC in Tension. , 2019, , .		0