

Piero Colajanni

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

946
citations

430874

18
h-index

477307

29
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52
all docs

52
docs citations

52
times ranked

557
citing authors

#	ARTICLE	IF	CITATIONS
1	Concrete columns confined with fibre reinforced cementitious mortars: Experimentation and modelling. <i>Construction and Building Materials</i> , 2014, 52, 375-384.	7.2	114
2	Combination of Modal Responses Consistent with Seismic Input Representation. <i>Journal of Structural Engineering</i> , 2004, 130, 47-55.	3.4	74
3	Effects of confinement level, cross-section shape and corner radius on the cyclic behavior of CFRCM confined concrete columns. <i>Construction and Building Materials</i> , 2014, 55, 379-389.	7.2	72
4	Definition of diagonal Poisson's ratio and elastic modulus for infill masonry walls. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 239-262.	3.1	44
5	Simple Plastic Model for Shear Critical SFRC Beams. <i>Journal of Structural Engineering</i> , 2010, 136, 390-400.	3.4	36
6	FEM analysis of push-out test response of Hybrid Steel Trussed Concrete Beams (HSTCBs). <i>Journal of Constructional Steel Research</i> , 2015, 111, 88-102.	3.9	35
7	Failure by corrosion in PC bridges: a case history of a viaduct in Italy. <i>International Journal of Structural Integrity</i> , 2016, 7, .	3.3	34
8	Shear capacity in concrete beams reinforced by stirrups with two different inclinations. <i>Engineering Structures</i> , 2014, 81, 444-453.	5.3	30
9	Stress transfer mechanism investigation in hybrid steel trussed concrete beams by push-out tests. <i>Journal of Constructional Steel Research</i> , 2014, 95, 56-70.	3.9	29
10	Generalization of shear truss model to the case of SFRC beams with stirrups. <i>Computers and Concrete</i> , 2012, 9, 227-244.	0.7	28
11	Experimental in situ behaviour of unreinforced masonry elements retrofitted by pre-tensioned stainless steel ribbons. <i>Construction and Building Materials</i> , 2014, 73, 740-753.	7.2	27
12	Analytical evaluation of steel-concrete composite trussed beam shear capacity. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 3159-3176.	3.1	26
13	A modal approach for the evaluation of the response sensitivity of structural systems subjected to non-stationary random processes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 4344-4361.	6.6	25
14	Ductility of Reinforced Concrete Members Externally Wrapped with Fiber-Reinforced Polymer Sheets. <i>Journal of Composites for Construction</i> , 2007, 11, 279-290.	3.2	23
15	Hysteretic Behavior Characterization of Friction-Damped Braced Frames. <i>Journal of Structural Engineering</i> , 1997, 123, 1020-1028.	3.4	22
16	Seismic response of braced frames with and without friction dampers. <i>Engineering Structures</i> , 1995, 17, 129-140.	5.3	21
17	Stochastic linearization critically re-examined. <i>Chaos, Solitons and Fractals</i> , 1997, 8, 1957-1972.	5.1	21
18	Shear strength degradation due to flexural ductility demand in circular RC columns. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 1795-1807.	4.1	19

#	ARTICLE	IF	CITATIONS
19	Increasing the shear capacity of reinforced concrete beams using pretensioned stainless steel ribbons. <i>Structural Concrete</i> , 2017, 18, 444-453.	3.1	18
20	Design of RC joints equipped with hybrid trussed beams and friction dampers. <i>Engineering Structures</i> , 2021, 227, 111442.	5.3	17
21	Increasing the Capacity of Existing Bridges by Using Unbonded Prestressing Technology: A Case Study. <i>Advances in Civil Engineering</i> , 2014, 2014, 1-10.	0.7	16
22	Stiffness and strength of composite truss beam to R.C. column connection in MRFs. <i>Journal of Constructional Steel Research</i> , 2015, 113, 86-100.	3.9	16
23	Increasing the flexural capacity of RC beams using steel angles and pre-tensioned stainless steel ribbons. <i>Structural Concrete</i> , 2016, 17, 848-857.	3.1	15
24	Experimental test results vs. analytical prediction of welded joint strength in hybrid steel trussed concrete beams (HSTCBs). <i>European Journal of Environmental and Civil Engineering</i> , 2013, 17, 742-759.	2.1	14
25	Stress Field Model for Strengthening of Shear-Flexure Critical RC Beams. <i>Journal of Composites for Construction</i> , 2017, 21, .	3.2	14
26	Stress transfer and failure mechanisms in steel-concrete trussed beams: Experimental investigation on slab-thick and full-thick beams. <i>Construction and Building Materials</i> , 2018, 161, 267-281.	7.2	14
27	Analytical prediction of the shear connection capacity in composite steel-concrete trussed beams. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017, 50, 1.	3.1	13
28	Stress-Strain Law for Confined Concrete with Hardening or Softening Behavior. <i>Advances in Civil Engineering</i> , 2013, 2013, 1-11.	0.7	11
29	Review of Push-Out and Shear Response of Hybrid Steel-Trussed Concrete Beams. <i>Buildings</i> , 2018, 8, 134.	3.1	11
30	Ultimate Shear of RC Beams with Corroded Stirrups and Strengthened with FRP. <i>Buildings</i> , 2019, 9, 34.	3.1	11
31	Experimental Investigation of the Shear Response of Precast Steel-concrete Trussed Beams. <i>Journal of Structural Engineering</i> , 2017, 143, .	3.4	10
32	Design procedure for prestressed concrete beams. <i>Computers and Concrete</i> , 2014, 13, 235-253.	0.7	9
33	Comparison of fully non-stationary artificial accelerogram generation methods in reproducing seismicity at a given site. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 133, 106135.	3.8	8
34	Seismic Performance of Earthquake-Resilient RC Frames Made with HSTC Beams and Friction Damper Devices. <i>Journal of Earthquake Engineering</i> , 2022, 26, 7787-7813.	2.5	8
35	Performance of a historical cantilever reinforced concrete bridge with half-joint degradation. <i>Structures</i> , 2022, 37, 561-575.	3.6	8
36	Non-geometric spectral moments for frequency varying filtered input processes. <i>Probabilistic Engineering Mechanics</i> , 2004, 19, 21-31.	2.7	7

#	ARTICLE	IF	CITATIONS
37	Cyclic Behavior of Composite Truss Beam-to-RC Column Joints in MRFS. Key Engineering Materials, 0, 711, 681-689.	0.4	7
38	Shear resistance analytical evaluation for RC beams with transverse reinforcement with two different inclinations. Materials and Structures/Materiaux Et Constructions, 2020, 53, 1.	3.1	7
39	RC beams retrofitted by FRP oriented in any direction: Influence of the effectiveness factors. Engineering Structures, 2022, 266, 114589.	5.3	6
40	A simplified analysis for the evaluation of stochastic response of elasto-plastic oscillators. Probabilistic Engineering Mechanics, 1999, 14, 269-280.	2.7	5
41	Analytical prediction of ultimate moment and curvature of RC rectangular sections in compression. Bulletin of Earthquake Engineering, 2013, 11, 2055-2078.	4.1	5
42	Shear Capacity Model with Variable Orientation of Concrete Stress Field for RC Beams Strengthened by FRP with Different Inclinations. Journal of Composites for Construction, 2021, 25, .	3.2	4
43	An Analytical Step-by-Step Procedure to Derive the Flexural Response of RC Sections in Compression. Advances in Civil Engineering, 2013, 2013, 1-13.	0.7	3
44	Experimental Tests and FEM Model for SFRC Beams under Flexural and Shear Loads. AIP Conference Proceedings, 2008, , .	0.4	2
45	Validation of a Shear Model for RC and Hybrid Beams with Two Different Inclinations of Transversal Reinforcement. Applied Mechanics and Materials, 2016, 847, 505-512.	0.2	2
46	Shear Strength Prediction By Modified Plasticity Theory For SFRC Beams. AIP Conference Proceedings, 2008, , .	0.4	1
47	Steel based retrofitting interventions for existing masonry walls: a comparative numerical investigation. Ce/Papers, 2021, 4, 2442-2450.	0.3	1
48	Title is missing!. Journal of Earthquake Engineering, 1999, 3, 33.	2.5	1
49	Influence of Cross-Section Shape and FRP Reinforcement Layout on Shear Capacity of Strengthened RC Beams. Materials, 2022, 15, 4545.	2.9	1
50	BRACED FRAMES WITH HYSTERETIC DISSIPATIVE DEVICES: SEISMIC RESPONSE AND DESIGN CRITERIA. Journal of Earthquake Engineering, 1999, 3, 33-57.	2.5	0
51	Push-Over Analysis of RC Frame with Corroded Rebar. IOP Conference Series: Materials Science and Engineering, 2019, 627, 012020.	0.6	0