

Rui Pinho

List of Publications by Year in descending order

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116
papers

4,807
citations

81900

39
h-index

106344

65
g-index

120
all docs

120
docs citations

120
times ranked

2595
citing authors

#	ARTICLE	IF	CITATIONS
1	DEVELOPMENT AND VERIFICATION OF A DISPLACEMENT-BASED ADAPTIVE PUSHOVER PROCEDURE. Journal of Earthquake Engineering, 2004, 8, 643-661.	2.5	277
2	Development of the OpenQuake engine, the Global Earthquake Model's open-source software for seismic risk assessment. Natural Hazards, 2014, 72, 1409-1427.	3.4	232
3	A Probabilistic Displacement-based Vulnerability Assessment Procedure for Earthquake Loss Estimation. Bulletin of Earthquake Engineering, 2004, 2, 173-219.	4.1	185
4	ADVANTAGES AND LIMITATIONS OF ADAPTIVE AND NON-ADAPTIVE FORCE-BASED PUSHOVER PROCEDURES. Journal of Earthquake Engineering, 2004, 8, 497-522.	2.5	181
5	Simplified pushover-based vulnerability analysis for large-scale assessment of RC buildings. Engineering Structures, 2008, 30, 804-820.	5.3	173
6	Once upon a Time in Italy: The Tale of the Morandi Bridge. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2019, 29, 198-217.	0.8	139
7	Detailed assessment of structural characteristics of Turkish RC building stock for loss assessment models. Soil Dynamics and Earthquake Engineering, 2008, 28, 914-932.	3.8	126
8	Numerical Issues in Distributed Inelasticity Modeling of RC Frame Elements for Seismic Analysis. Journal of Earthquake Engineering, 2010, 14, 38-68.	2.5	126
9	Seismic fragility of Italian RC precast industrial structures. Engineering Structures, 2015, 94, 122-136.	5.3	120
10	Seismic risk assessment for mainland Portugal. Bulletin of Earthquake Engineering, 2015, 13, 429-457.	4.1	116
11	Simplified Pushover-Based Earthquake Loss Assessment (SP-BELA) Method for Masonry Buildings. International Journal of Architectural Heritage, 2008, 2, 353-376.	3.1	111
12	An adaptive capacity spectrum method for assessment of bridges subjected to earthquake action. Bulletin of Earthquake Engineering, 2007, 5, 377-390.	4.1	101
13	A risk-mitigation approach to the management of induced seismicity. Journal of Seismology, 2015, 19, 623-646.	1.3	99
14	Implementation and verification of a masonry panel model for nonlinear dynamic analysis of infilled RC frames. Bulletin of Earthquake Engineering, 2011, 9, 1519-1534.	4.1	98
15	Flexure-Shear Fiber Beam-Column Elements for Modeling Frame Structures Under Seismic Loading " State of the Art. Journal of Earthquake Engineering, 2007, 11, 46-88.	2.5	86
16	Modelling liquefaction-induced building damage in earthquake loss estimation. Soil Dynamics and Earthquake Engineering, 2006, 26, 15-30.	3.8	85
17	Deriving vulnerability curves using Italian earthquake damage data. Bulletin of Earthquake Engineering, 2008, 6, 485-504.	4.1	83
18	A Prioritization Scheme for Seismic Intervention in School Buildings in Italy. Earthquake Spectra, 2007, 23, 291-314.	3.1	79

#	ARTICLE	IF	CITATIONS
19	PERIOD-HEIGHT RELATIONSHIP FOR EXISTING EUROPEAN REINFORCED CONCRETE BUILDINGS. <i>Journal of Earthquake Engineering</i> , 2004, 8, 93-119.	2.5	78
20	Evaluation of analytical methodologies used to derive vulnerability functions. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 181-204.	4.4	73
21	The impact of epistemic uncertainty on an earthquake loss model. <i>Earthquake Engineering and Structural Dynamics</i> , 2005, 34, 1653-1685.	4.4	72
22	Investigation of the characteristics of Portuguese regular moment-frame RC buildings and development of a vulnerability model. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 1455-1490.	4.1	70
23	A comparison of seismic risk maps for Italy. <i>Bulletin of Earthquake Engineering</i> , 2009, 7, 149-180.	4.1	64
24	A fibre flexure-shear model for seismic analysis of RC-framed structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2009, 38, 565-586.	4.4	63
25	Adapting earthquake actions in Eurocode 8 for performance-based seismic design. <i>Earthquake Engineering and Structural Dynamics</i> , 2006, 35, 39-55.	4.4	61
26	Framework for Developing Fragility and Consequence Models for Local Personal Risk. <i>Earthquake Spectra</i> , 2017, 33, 1325-1345.	3.1	56
27	A comparison of single-run pushover analysis techniques for seismic assessment of bridges. <i>Earthquake Engineering and Structural Dynamics</i> , 2007, 36, 1347-1362.	4.4	54
28	Assessment of Continuous Span Bridges through Nonlinear Static Procedures. <i>Earthquake Spectra</i> , 2009, 25, 143-159.	3.1	54
29	Numerical Study on the Collapse of the Morandi Bridge. <i>Journal of Performance of Constructed Facilities</i> , 2020, 34, .	2.0	53
30	Using the applied element method for modelling calcium silicate brick masonry subjected to in-plane cyclic loading. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 1610-1630.	4.4	52
31	DEVELOPMENT OF A SIMPLIFIED DEFORMATION-BASED METHOD FOR SEISMIC VULNERABILITY ASSESSMENT. <i>Journal of Earthquake Engineering</i> , 2003, 7, 107-140.	2.5	51
32	The Influence of Geographical Resolution of Urban Exposure Data in an Earthquake Loss Model for Istanbul. <i>Earthquake Spectra</i> , 2010, 26, 619-634.	3.1	51
33	A Probabilistic Model to Evaluate Options for Mitigating Induced Seismic Risk. <i>Earthquake Spectra</i> , 2019, 35, 537-564.	3.1	50
34	Verification of displacement-based adaptive pushover through multi-ground motion incremental dynamic analyses. <i>Engineering Structures</i> , 2009, 31, 1789-1799.	5.3	49
35	Evaluation of Nonlinear Static Procedures in the Assessment of Building Frames. <i>Earthquake Spectra</i> , 2013, 29, 1459-1476.	3.1	49
36	Cyclic testing of a full-scale two-storey reinforced precast concrete wall-slab-wall structure. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 5309-5339.	4.1	48

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37	Using nonlinear static procedures for seismic assessment of the 3D irregular SPEAR building. <i>Earthquake and Structures</i> , 2010, 1, 177-195.	1.0	46
38	Earthquake loss estimation of residential buildings in Pakistan. <i>Natural Hazards</i> , 2014, 73, 1889-1955.	3.4	44
39	Seismic response of continuous span bridges through fiber-based finite element analysis. <i>Earthquake Engineering and Engineering Vibration</i> , 2006, 5, 119-131.	2.3	43
40	Shake-Table Testing of a Full-Scale Two-Story Precast Wall-Slab-Wall Structure. <i>Earthquake Spectra</i> , 2019, 35, 1583-1609.	3.1	42
41	Displacement-Based Earthquake Loss Assessment for an Earthquake Scenario in Istanbul. <i>Journal of Earthquake Engineering</i> , 2008, 12, 12-22.	2.5	41
42	Sodium potassium niobate ($K_{0.5}Na_{0.5}NbO_3$, KNN) thick films by electrophoretic deposition. <i>RSC Advances</i> , 2015, 5, 4698-4706.	3.6	40
43	Revisiting Eurocode 8 formulae for periods of vibration and their employment in linear seismic analysis. <i>Earthquake Engineering and Structural Dynamics</i> , 2010, 39, 223-235.	4.4	37
44	Parametric Characterization of RC Bridges for Seismic Assessment Purposes. <i>Structures</i> , 2016, 7, 14-24.	3.6	37
45	Critical Assessment of Intensity Measures for Seismic Response of Italian RC Bridge Portfolios. <i>Journal of Earthquake Engineering</i> , 2019, 23, 980-1000.	2.5	37
46	Extending displacement-based earthquake loss assessment (DBELA) for the computation of fragility curves. <i>Engineering Structures</i> , 2013, 56, 343-356.	5.3	36
47	Displacement-Based Fragility Curves for Seismic Assessment of Adobe Buildings in Cusco, Peru. <i>Earthquake Spectra</i> , 2012, 28, 759-794.	3.1	35
48	Dynamic soil-structure interaction models for fragility characterisation of buildings with shallow foundations. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 132, 106004.	3.8	35
49	Title is missing!. <i>Journal of Earthquake Engineering</i> , 2004, 8, 93.	2.5	34
50	Probabilistic damage assessment of buildings due to induced seismicity. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 4495-4516.	4.1	34
51	REPAIR AND RETROFITTING OF RC WALLS USING SELECTIVE TECHNIQUES. <i>Journal of Earthquake Engineering</i> , 1998, 2, 525-568.	2.5	31
52	Cyclic testing and analysis of a full-scale cast-in-place reinforced concrete wall-slab-wall structure. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 4761-4796.	4.1	30
53	Applied Element Modelling of the Dynamic Response of a Full-Scale Clay Brick Masonry Building Specimen with Flexible Diaphragms. <i>International Journal of Architectural Heritage</i> , 2020, 14, 1484-1501.	3.1	30
54	Probabilistic Seismic Assessment of RC Bridges: Part I – Uncertainty Models. <i>Structures</i> , 2016, 5, 258-273.	3.6	29

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55	Cyclic tensile testing of a three-way panel connection for precast wall-slab-wall structures. <i>Structural Concrete</i> , 2019, 20, 1307-1315.	3.1	29
56	Displacement-Based Earthquake Loss Assessment of Masonry Buildings in Mansehra City, Pakistan. <i>Journal of Earthquake Engineering</i> , 2010, 14, 1-37.	2.5	27
57	Hazard and risk assessments for induced seismicity in Groningen. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2017, 96, s259-s269.	0.9	27
58	A METHODOLOGY FOR SEISMIC VULNERABILITY OF MASONRY ARCH BRIDGE WALLS. <i>Journal of Earthquake Engineering</i> , 2005, 9, 331-353.	2.5	26
59	Numerical modelling of the out-of-plane response of full-scale brick masonry prototypes subjected to incremental dynamic shake-table tests. <i>Engineering Structures</i> , 2020, 209, 110298.	5.3	26
60	Integrated economic and environmental building classification and optimal seismic vulnerability/energy efficiency retrofitting. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 3627-3670.	4.1	25
61	Seismic fragility analysis of URM buildings founded on piles: influence of dynamic soil-structure interaction models. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 4127-4156.	4.1	24
62	Verification of spectral reduction factors for seismic assessment of bridges. <i>Bulletin of the New Zealand Society for Earthquake Engineering</i> , 2009, 42, 111-121.	0.5	24
63	Adaptive force-based frame element for regularized softening response. <i>Computers and Structures</i> , 2012, 102-103, 1-13.	4.4	23
64	Shake Table Blind Prediction Tests: Contributions for Improved Fiber-based Frame Modelling. <i>Journal of Earthquake Engineering</i> , 2020, 24, 1435-1476.	2.5	22
65	Derivation of Fragility Functions for Seismic Assessment of RC Bridge Portfolios Using Different Intensity Measures. <i>Journal of Earthquake Engineering</i> , 2019, 23, 1678-1694.	2.5	21
66	Seismic Energy Dissipation in Inelastic Frames: Understanding State-of-the-Practice Damping Models. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2013, 23, 148-158.	0.8	20
67	Collapse analysis of the multi-span reinforced concrete arch bridge of Caprigliola, Italy. <i>Engineering Structures</i> , 2022, 251, 113375.	5.3	20
68	Assessing global earthquake risks: the Global Earthquake Model (GEM) initiative. , 2013, , 815-838.		19
69	Spectral reduction factors evaluation for seismic assessment of frame buildings. <i>Engineering Structures</i> , 2014, 77, 129-142.	5.3	19
70	Probabilistic Seismic Assessment of RC Bridges: Part II – Nonlinear Demand Prediction. <i>Structures</i> , 2016, 5, 274-283.	3.6	19
71	A Life Cycle Framework for the Identification of Optimal Building Renovation Strategies Considering Economic and Environmental Impacts. <i>Sustainability</i> , 2020, 12, 10221.	3.2	19
72	Force-based higher-order beam element with flexural-shear-torsional interaction in 3D frames. Part I: Theory. <i>Engineering Structures</i> , 2015, 89, 204-217.	5.3	18

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73	Simulating the shake table response of unreinforced masonry cavity wall structures tested to collapse or near-collapse conditions. <i>Earthquake Spectra</i> , 2020, 36, 554-578.	3.1	17
74	Assessment of building response to liquefaction-induced differential ground deformation. <i>Bulletin of the New Zealand Society for Earthquake Engineering</i> , 2005, 38, 215-234.	0.5	17
75	Unleashing the Full Sustainable Potential of Thick Films of Lead-Free Potassium Sodium Niobate ($K_{0.5}Na_{0.5}NbO_3$) by Aqueous Electrophoretic Deposition. <i>Langmuir</i> , 2016, 32, 5241-5249.	3.5	16
76	Title is missing!. <i>Journal of Earthquake Engineering</i> , 2004, 8, 643.	2.5	15
77	Nonlinear Dynamic Analysis of Structures Subjected to Seismic Action. , 2007, , 63-89.		14
78	Seismic demand estimation of RC frame buildings based on simplified and nonlinear dynamic analyses. <i>Earthquake and Structures</i> , 2013, 4, 157-179.	1.0	14
79	Seismic Hazard and Risk Due to Induced Earthquakes at a Shale Gas Site. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 875-897.	2.3	13
80	Ground-motion networks in the Groningen field: usability and consistency of surface recordings. <i>Journal of Seismology</i> , 2019, 23, 1233-1253.	1.3	12
81	Including Multiple IMTs in the Development of Fragility Functions for Earthquake Loss Estimation. , 2014, , .		11
82	Force-based higher-order beam element with flexural-shear-torsional interaction in 3D frames. Part II: Applications. <i>Engineering Structures</i> , 2015, 89, 218-235.	5.3	11
83	Comparison of Two Mechanics-Based Methods for Simplified Structural Analysis in Vulnerability Assessment. <i>Advances in Civil Engineering</i> , 2008, 2008, 1-19.	0.7	9
84	Analytical modelling of a large-scale dynamic testing facility. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 255-277.	4.4	9
85	Developing fragility and consequence models for buildings in the Groningen field. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , 2017, 96, s247-s257.	0.9	9
86	Variations between foundation-level recordings and free-field earthquake ground motions: numerical study at soft-soil sites. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 141, 106511.	3.8	9
87	Interstory drift based scaling of earthquake ground motions. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 3814-3830.	4.4	9
88	Title is missing!. <i>Journal of Earthquake Engineering</i> , 2004, 8, 497.	2.5	8
89	After the Lâ€™Aquila Trial. <i>Seismological Research Letters</i> , 2016, 87, 591-596.	1.9	8
90	Analytical and numerical analysis of the torsional response of the multi-cell deck of a collapsed cable-stayed bridge. <i>Engineering Structures</i> , 2022, 265, 114412.	5.3	8

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91	Development of a Fragility Model for Moment-Frame RC Buildings in Portugal. , 2014, , .		7
92	Impact of ground floor openings percentage on the dynamic response of typical Dutch URM cavity wall structures. Bulletin of Earthquake Engineering, 2021, 19, 403-428.	4.1	7
93	Shake-table response simulation of a URM building specimen using discrete micro-models with varying degrees of detail. Bulletin of Earthquake Engineering, 2021, 19, 5953-5976.	4.1	7
94	Using Pushover Analysis for Assessment of Buildings and Bridges. , 2007, , 91-120.		4
95	Investigation of the Characteristics of the Portuguese Moment-Frame RC Building Stock. , 2014, , .		4
96	Friction characterization testing of fabric felt material used in precast structures. Structural Concrete, 2020, 21, 735-746.	3.1	4
97	USING DIFFERENT UNCERTAINTY MODELS FOR SEISMIC ASSESSMENT OF RC BRIDGES. , 2015, , .		4
98	Title is missing!. Journal of Earthquake Engineering, 2003, 7, 107.	2.5	3
99	Incorporating dwelling mounds into induced seismic risk analysis for the Groningen gas field in the Netherlands. Bulletin of Earthquake Engineering, 2022, 20, 255-285.	4.1	3
100	USING A DISPLACEMENT-BASED APPROACH FOR EARTHQUAKE LOSS ESTIMATION. , 2006, , 489-504.		3
101	SIMPLIFIED PERIOD ESTIMATION OF ITALIAN RC BRIDGES FOR LARGE-SCALE SEISMIC ASSESSMENT. , 2016, , .		3
102	Seismic hazard assessments, seismic design codes, and earthquake engineering in El Salvador. , 2004, , .		2
103	Assessment of Stone Arch Bridges under Static Loading Using Analytical Techniques. , 2007, , 1.		2
104	Modelling of Bridges for Inelastic Analysis. Geotechnical, Geological and Earthquake Engineering, 2012, , 5-84.	0.2	2
105	On the Applicability of Transfer Function Models for SSI Embedment Effects. Infrastructures, 2021, 6, 137.	2.8	2
106	Modelling inelastic buckling of reinforcing bars under earthquake loading. Structures and Infrastructures Series, 2008, , 347-361.	0.2	2
107	A COMPARATIVE STUDY OF DISPLACEMENT, FORCE AND PUSHOVER APPROACHES FOR DESIGN OF CONTINUOUS SPAN BRIDGES. , 2006, , 379-394.		1
108	Preliminary Study on the Impact of the Introduction of an Updated Seismic Hazard Model for Italy. Journal of Earthquake Engineering, 2007, 11, 89-118.	2.5	1

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109	Elastic and Inelastic Analysis of Frames with a Force-Based Higher-Order 3D Beam Element Accounting for Axial-Flexural-Shear-Torsional Interaction. Computational Methods in Applied Sciences (Springer), 2017, , 109-128.	0.3	1
110	COMPARATIVE ASSESSMENT OF DYNAMIC SOIL-STRUCTURE INTERACTION MODELS FOR FRAGILITY CHARACTERISATION. , 2019, , .		1
111	Comparative nonlinear soil-structure interaction analyses using macro-element and soil-block modelling approaches. Bulletin of Earthquake Engineering, 0, , 1.	4.1	1
112	Open access?. Nature Geoscience, 2009, 2, 155-155.	12.9	0
113	Comparison of Base Shears Estimated from Floor Accelerations and Column Shears. Earthquake Spectra, 2012, 28, 831-832.	3.1	0
114	Methods for Inelastic Analysis of Bridges. Geotechnical, Geological and Earthquake Engineering, 2012, , 85-128.	0.2	0
115	Explicit collapse analysis of the Morandi Bridge using the Applied Element Method. , 2019, , 87-120.		0
116	Traditional and Innovative Methods for Seismic Vulnerability Assessment at Large Geographical Scales. Geotechnical, Geological and Earthquake Engineering, 2009, , 197-220.	0.2	0