

Michael H Scott

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34 papers	1,183 citations	15 h-index	34 g-index
36 ext. papers	1,429 ext. citations	3 avg, IF	4.79 L-index

#	Paper	IF	Citations
34	Nonlinear Finite-Element Analysis Software Architecture Using Object Composition. <i>Journal of Computing in Civil Engineering</i> , 2010 , 24, 95-107	5	34 ⁰
33	Plastic Hinge Integration Methods for Force-Based Beam-Column Elements. <i>Journal of Structural Engineering</i> , 2006 , 132, 244-252	3	31 ³
32	Krylov Subspace Accelerated Newton Algorithm: Application to Dynamic Progressive Collapse Simulation of Frames. <i>Journal of Structural Engineering</i> , 2010 , 136, 473-480	3	68
31	OpenSeesPy: Python library for the OpenSees finite element framework. <i>SoftwareX</i> , 2018 , 7, 6-11	2.7	61
30	Response Sensitivity for Nonlinear Beam-Column Elements. <i>Journal of Structural Engineering</i> , 2004 , 130, 1281-1288	3	5 ⁰
29	Software Patterns for Nonlinear Beam-Column Models. <i>Journal of Structural Engineering</i> , 2008 , 134, 562-571	3.71	41
28	Modeling fluid-structure interaction by the particle finite element method in OpenSees. <i>Computers and Structures</i> , 2014 , 132, 12-21	4.5	36
27	Development of Physics-Based Tsunami Fragility Functions Considering Structural Member Failures. <i>Journal of Structural Engineering</i> , 2018 , 144, 04017221	3	31
26	Shape sensitivities in the reliability analysis of nonlinear frame structures. <i>Computers and Structures</i> , 2006 , 84, 964-977	4.5	31
25	Moment-Rotation Behavior of Force-Based Plastic Hinge Elements. <i>Earthquake Spectra</i> , 2013 , 29, 597-607	3.4	26
24	Response Gradients for Nonlinear Beam-Column Elements under Large Displacements. <i>Journal of Structural Engineering</i> , 2007 , 133, 155-165	3	22
23	Software Framework for Parameter Updating and Finite-Element Response Sensitivity Analysis. <i>Journal of Computing in Civil Engineering</i> , 2008 , 22, 281-291	5	19
22	Deterioration Modeling of Steel Moment Resisting Frames Using Finite-Length Plastic Hinge Force-Based Beam-Column Elements. <i>Journal of Structural Engineering</i> , 2015 , 141, 04014112	3	16
21	Multihazard Earthquake and Tsunami Effects on Soil-Foundation-Bridge Systems. <i>Journal of Bridge Engineering</i> , 2019 , 24, 04019004	2.7	16
20	Improved fractional step method for simulating fluid-structure interaction using the PFEM. <i>International Journal for Numerical Methods in Engineering</i> , 2014 , 99, 925-944	2.4	15
19	Validation of OpenSees for Tsunami Loading on Bridge Superstructures. <i>Journal of Bridge Engineering</i> , 2018 , 23, 04018015	2.7	14
18	Analysis of moving loads using force-based finite elements. <i>Finite Elements in Analysis and Design</i> , 2008 , 44, 214-224	2.2	14

17	Constant-ductility response spectra for sequential earthquake and tsunami loading. <i>Earthquake Engineering and Structural Dynamics</i> , 2017 , 46, 1549-1554	4	10
16	Unified fractional step method for Lagrangian analysis of quasi-incompressible fluid and nonlinear structure interaction using the PFEM. <i>International Journal for Numerical Methods in Engineering</i> , 2017 , 109, 1219-1236	2.4	8
15	Response sensitivity of material and geometric nonlinear force-based Timoshenko frame elements. <i>International Journal for Numerical Methods in Engineering</i> , 2017 , 111, 474-492	2.4	8
14	Evaluation of Force-Based Frame Element Response Sensitivity Formulations. <i>Journal of Structural Engineering</i> , 2012 , 138, 72-80	3	7
13	Development of Bridge Rating Applications Using OpenSees and Tcl. <i>Journal of Computing in Civil Engineering</i> , 2008 , 22, 264-271	5	7
12	Direct Differentiation of the Particle Finite-Element Method for Fluid-Structure Interaction. <i>Journal of Structural Engineering</i> , 2016 , 142, 04015159	3	6
11	Implementation of Nonlinear Elements for Seismic Response Analysis of Bridges. <i>Practice Periodical on Structural Design and Construction</i> , 2019 , 24, 04019011	1.2	4
10	Response Sensitivity of Geometrically Nonlinear Force-Based Frame Elements. <i>Journal of Structural Engineering</i> , 2013 , 139, 1963-1972	3	4
9	Direct differentiation of the quasi-incompressible fluid formulation of fluid-structure interaction using the PFEM. <i>Computational Particle Mechanics</i> , 2017 , 4, 307-319	3	4
8	Sensitivity Analysis for Displacement-Controlled Finite-Element Analyses. <i>Journal of Structural Engineering</i> , 2018 , 144, 04017222	3	3
7	Response sensitivity for geometrically nonlinear displacement-based beam-column elements. <i>Computers and Structures</i> , 2019 , 220, 43-54	4.5	2
6	Analytical Sensitivity of Plastic Rotations in Beam-Column Elements. <i>Journal of Structural Engineering</i> , 2007 , 133, 1341-1345	3	2
5	Response spectrum devices for active learning in earthquake engineering education. <i>HardwareX</i> , 2018 , 4, e00032	2.7	2
4	Strength and Reliability of Structural Steel Roofs Subjected to Ponding Loads. <i>Journal of Structural Engineering</i> , 2021 , 147, 04020318	3	1
3	Discussion of Complex Perturbation Method for Sensitivity Analysis of Nonlinear Trusses by Ravi Kiran, Lei Li, and Kapil Khandelwal. <i>Journal of Structural Engineering</i> , 2017 , 143, 07017005	3	
2	Erratum for Krylov Subspace Accelerated Newton Algorithm: Application to Dynamic Progressive Collapse Simulation of Frames by Michael H. Scott and Gregory L. Fenves. <i>Journal of Structural Engineering</i> , 2020 , 146, 08220003	3	
1	Discussion of Nonlinear Truss Analysis by One Matrix Inversion by A. Fafitis. <i>Journal of Structural Engineering</i> , 2006 , 132, 1852-1853	3	