

Ann E Jeffers

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

664
citations

516561

16
h-index

580701

25
g-index

33
all docs

33
docs citations

33
times ranked

450
citing authors

#	ARTICLE	IF	CITATIONS
1	Isogeometric analysis of laminated composite and functionally graded sandwich plates based on a layerwise displacement theory. <i>Composite Structures</i> , 2017, 176, 143-153.	3.1	95
2	A geometrically exact isogeometric Kirchhoff plate: Feature-preserving automatic meshing and C^1 rational triangular Bézier spline discretizations. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 115, 395-409.	1.5	55
3	Probabilistic Evaluation of Structural Fire Resistance. <i>Fire Technology</i> , 2013, 49, 793-811.	1.5	46
4	Structural analysis of multi-storey steel frames exposed to travelling fires and traditional design fires. <i>Engineering Structures</i> , 2017, 150, 271-287.	2.6	42
5	Adaptive isogeometric analysis in structural frames using a layer-based discretization to model spread of plasticity. <i>Computers and Structures</i> , 2018, 196, 1-11.	2.4	37
6	Vibration isolation using buckled or pre-bent columns—Part 1: Two-dimensional motions of horizontal rigid bar. <i>Journal of Sound and Vibration</i> , 2008, 310, 409-420.	2.1	32
7	Combining Load-Controlled and Displacement-Controlled Algorithms to Model Thermal-Mechanical Snap-Through Instabilities in Structures. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, 04017051.	1.6	31
8	Feature-preserving rational Bézier triangles for isogeometric analysis of higher-order gradient damage models. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 357, 112585.	3.4	31
9	Finite-Element Reliability Analysis of Structures Subjected to Fire. <i>Journal of Structural Engineering</i> , 2015, 141, .	1.7	25
10	Computational analysis of thermal and structural failure criteria of a multi-storey steel frame exposed to fire. <i>Engineering Structures</i> , 2019, 180, 524-543.	2.6	24
11	An efficient fiber element approach for the thermo-structural simulation of non-uniformly heated frames. <i>Fire Safety Journal</i> , 2012, 51, 18-26.	1.4	23
12	A mixed isogeometric analysis and control volume approach for heat transfer analysis of nonuniformly heated plates. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2019, 75, 347-362.	0.6	23
13	Real-Time Fire Monitoring and Visualization for the Post-Ignition Fire State in a Building. <i>Fire Technology</i> , 2018, 54, 995-1027.	1.5	22
14	Heat transfer element for modeling the thermal response of non-uniformly heated plates. <i>Finite Elements in Analysis and Design</i> , 2013, 63, 62-68.	1.7	21
15	Fiber Heat Transfer Element for Modeling the Thermal Response of Structures in Fire. <i>Journal of Structural Engineering</i> , 2009, 135, 1191-1200.	1.7	18
16	Summary of workshop for fire structure interaction and urban and wildland-urban interface (WUI) Fires—operation Tomodachi—fire research. <i>Fire Safety Journal</i> , 2013, 59, 122-131.	1.4	17
17	Analysis of restrained composite beams exposed to fire. <i>Engineering Structures</i> , 2021, 234, 111740.	2.6	17
18	Stochastic Analysis of Structures in Fire by Monte Carlo Simulation. <i>Journal of Structural Fire Engineering</i> , 2013, 4, 37-46.	0.4	15

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19	Generalized shell heat transfer element for modeling the thermal response of non-uniformly heated structures. <i>Finite Elements in Analysis and Design</i> , 2014, 83, 58-67.	1.7	15
20	A comparison of subcycling algorithms for bridging disparities in temporal scale between the fire and solid domains. <i>Fire Safety Journal</i> , 2013, 59, 55-61.	1.4	13
21	Analysis of Steel Structures in Fire with Force-Based Frame Elements. <i>Journal of Structural Fire Engineering</i> , 2012, 3, 287-300.	0.4	12
22	Direct differentiation method for response sensitivity analysis of structures in fire. <i>Engineering Structures</i> , 2014, 77, 172-180.	2.6	10
23	Structural response of steel-concrete composite floor systems under traveling fires. <i>Journal of Constructional Steel Research</i> , 2021, 186, 106926.	1.7	10
24	Vibration isolation using buckled or pre-bent columnsâ€”Part 2: Three-dimensional motions of horizontal rigid plate. <i>Journal of Sound and Vibration</i> , 2008, 310, 421-432.	2.1	8
25	Spatial homogenization algorithm for bridging disparities in scale between the fire and solid domains. <i>Fire Safety Journal</i> , 2015, 76, 19-30.	1.4	7
26	Triangular Shell Heat Transfer Element for the Thermal Analysis of Nonuniformly Heated Structures. <i>Journal of Structural Engineering</i> , 2016, 142, 04015084.	1.7	6
27	Best practices for modeling structural boundary conditions due to a localized fire. <i>Fire and Materials</i> , 2020, 44, 409-422.	0.9	3
28	The COVID-19 Pandemic is Widening the Gap for Women in STEM. <i>Computing in Science and Engineering</i> , 2021, 23, 96-98.	1.2	3
29	The Field of Computing Needs to Take Care of Its Mental Health. <i>Computing in Science and Engineering</i> , 2022, 24, 91-94.	1.2	3
30	A Fiber-Based Heat Transfer Element for Modeling the Thermal Response of Structural Members Subjected to Fire. , 2009, , .		0
31	Reliability Analysis in Structural Fire Engineering. , 2017, , .		0
32	Tension stiffening model for the finite element analysis of composite floor systems exposed to fire. <i>Journal of Structural Fire Engineering</i> , 2022, ahead-of-print, .	0.4	0