

# Simos Gerasimidis

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

379  
citations

840776

11  
h-index

794594

19  
g-index

31  
all docs

31  
docs citations

31  
times ranked

317  
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation between topology and elastic properties of imperfect truss-lattice materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 124, 577-598.	4.8	65
2	Loss-of-stability induced progressive collapse modes in 3D steel moment frames. <i>Structure and Infrastructure Engineering</i> , 2015, 11, 334-344.	3.7	32
3	Instability of thin steel cylindrical shells under bending. <i>Thin-Walled Structures</i> , 2019, 137, 151-166.	5.3	30
4	Progressive collapse of 3D steel composite buildings under interior gravity column loss. <i>Journal of Constructional Steel Research</i> , 2018, 150, 60-75.	3.9	27
5	Behavior of cold-formed steel shear walls sheathed with high-capacity sheathing. <i>Engineering Structures</i> , 2020, 225, 111280.	5.3	27
6	New Euler-Type Progressive Collapse Curves for Steel Moment-Resisting Frames: Analytical Method. <i>Journal of Structural Engineering</i> , 2017, 143, .	3.4	26
7	Distributed Column Damage Effect on Progressive Collapse Vulnerability in Steel Buildings Exposed to an External Blast Event. <i>Journal of Performance of Constructed Facilities</i> , 2017, 31, .	2.0	22
8	A Nondestructive Technique for the Evaluation of Thin Cylindrical Shells' Axial Buckling Capacity. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, .	2.2	16
9	Compression behavior of individual thin-walled metallic hollow spheres with patterned distributions of microporosity. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 734, 453-475.	5.6	14
10	High-Fidelity Finite Element Modeling of Wood-Sheathed Cold-Formed Steel Shear Walls. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	13
11	Investigation of stiffening scheme effectiveness towards buckling stability enhancement in tubular steel wind turbine towers. <i>Steel and Composite Structures</i> , 2015, 19, 1115-1144.	1.3	13
12	Imperfection insensitive thin cylindrical shells for next generation wind turbine towers. <i>Journal of Constructional Steel Research</i> , 2020, 172, 106228.	3.9	11
13	Diagrid Structural System for High-Rise Buildings: Applications of a Simple Stiffness-based Optimized Design. <i>International Journal of High-Rise Buildings</i> , 2016, 5, 319-326.	0.4	8
14	Global Instability Induced Failure of Tall Steel Moment Frame Buildings. <i>Journal of Performance of Constructed Facilities</i> , 2017, 31, 04016082.	2.0	7
15	Imperfection Insensitivity of Thin Wavy Cylindrical Shells Under Axial Compression or Bending. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	2.2	7
16	Finite Element Analysis of Different Titanium Plates for Internal Fixation of Fractures of the Mandibular Condylar Neck. <i>Journal of Oral and Maxillofacial Surgery</i> , 2021, 79, 665.e1-665.e10.	1.2	6
17	Finite element analysis of different titanium miniplates: Evaluation of three-dimensional designs applied on condylar neck fractures. <i>Journal of Stomatology, Oral and Maxillofacial Surgery</i> , 2022, 123, 184-190.	1.3	6
18	Postbuckling behavior and imperfection sensitivity of elastic-plastic periodic plate-lattice materials. <i>Extreme Mechanics Letters</i> , 2022, 50, 101510.	4.1	6

#	ARTICLE	IF	CITATIONS
19	A computational model for full or partial damage of single or multiple adjacent columns in disproportionate collapse analysis via linear programming. <i>Structure and Infrastructure Engineering</i> , 2014, 10, 670-683.	3.7	5
20	Strength evaluation of deteriorated girder ends. I: Experimental study on naturally corroded I-beams. <i>Thin-Walled Structures</i> , 2021, 159, 107220.	5.3	5
21	Strength evaluation of deteriorated girder ends. II: Numerical study on corroded I-beams. <i>Thin-Walled Structures</i> , 2021, 159, 107216.	5.3	5
22	On the application of robustness criteria to steel lattice masts. <i>Pollack Periodica</i> , 2009, 4, 17-28.	0.4	5
23	Effect of Build Height on Temperature Evolution and Thermally Induced Residual Stresses in Plasma Arc Additively Manufactured Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 627-639.	2.2	5
24	Nonlinear Fastener-Based Modeling of Cold-Formed Steel Shear Walls. , 2020, , .		4
25	Review of Post-Fire Inspection Procedures for Concrete Tunnels. <i>Transportation Research Record</i> , 2021, 2675, 1304-1315.	1.9	4
26	Progressive collapse mitigation of 2D steel moment frames. <i>Stahlbau</i> , 2015, 84, 324-331.	0.1	3
27	Application of the lambda plate on condylar fractures: Finite element evaluation of the fixation rigidity for different fracture patterns and plate placements. <i>Injury</i> , 2022, 53, 1345-1352.	1.7	3
28	On the Definition of Resilience. , 2022, , 1-24.		3
29	On the Analytical and Numerical Investigation of 3D Steel Framed Gravity Systems Exposed to Interior Gravity Column Loss. , 2018, , .		0
30	Partial Damage Distribution and Progressive Collapse of Buildings. , 2020, , .		0