Oded Amir

List of Publications by Year
in descending order

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45	1,568	257357	302012
papers	citations	24 h-index	39 g-index

46	46	46	1023
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stress-constrained topology optimization with precise and explicit geometric boundaries. Structural and Multidisciplinary Optimization, 2022, 65, 1.	1.7	6
2	Optimization of plate supports using a feature mapping approach with techniques to avoid local minima. Structural and Multidisciplinary Optimization, 2022, 65, 1.	1.7	4
3	Optimization of post-tensioned concrete slabs for minimum cost. Engineering Structures, 2022, 259, 114132.	2.6	9
4	Cost optimization of cross-laminated timber panels in one-way bending. European Journal of Wood and Wood Products, 2022, 80, 1275-1291.	1.3	2
5	Topology optimization with precise evolving boundaries based on IGA and untrimming techniques. Computer Methods in Applied Mechanics and Engineering, 2021, 374, 113564.	3.4	10
6	Layout optimization of post-tensioned cables in concrete slabs. Structural and Multidisciplinary Optimization, 2021, 63, 1951-1974.	1.7	8
7	Efficient stressâ€constrained topology optimization using inexact design sensitivities. International Journal for Numerical Methods in Engineering, 2021, 122, 3241-3272.	1.5	19
8	Concurrent high-resolution topology optimization of structures and their supports for additive manufacturing. Structural and Multidisciplinary Optimization, 2021, 63, 2589-2612.	1.7	9
9	Plastic work constrained elastoplastic topology optimization. International Journal for Numerical Methods in Engineering, 2021, 122, 4354-4377.	1.5	4
10	The effect of block geometry on structural behavior of topological interlocking assemblies. Automation in Construction, 2021, 128, 103717.	4.8	11
11	Mixed projection- and density-based topology optimization with applications to structural assemblies. Structural and Multidisciplinary Optimization, 2020, 61, 687-710.	1.7	11
12	Structural optimization with explicit geometric constraints using a B-spline representation. Mechanics Based Design of Structures and Machines, 2020, , 1-32.	3.4	6
13	Level-set topology optimization considering nonlinear thermoelasticity. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112735.	3.4	36
14	3D printing of a post-tensioned concrete girder designed by topology optimization. Automation in Construction, 2020, 112, 103084.	4.8	165
15	Consistent boundary conditions for PDE filter regularization in topology optimization. Structural and Multidisciplinary Optimization, 2020, 62, 1299-1311.	1.7	31
16	Topology optimization for the computationally poor: efficient high resolution procedures using beam modeling. Structural and Multidisciplinary Optimization, 2019, 59, 165-184.	1.7	7
17	Concurrent structural optimization of buckling-resistant trusses and their initial imperfections. International Journal of Solids and Structures, 2019, 162, 244-258.	1.3	13
18	Topology optimization of dielectric elastomers for wide tunable band gaps. International Journal of Solids and Structures, 2018, 143, 262-273.	1.3	41

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19	Adjoint sensitivity analysis and optimization of hysteretic dynamic systems with nonlinear viscous dampers. Structural and Multidisciplinary Optimization, 2018, 57, 2273-2289.	1.7	30
20	Topology optimization for staged construction. Structural and Multidisciplinary Optimization, 2018, 57, 1679-1694.	1.7	28
21	Simultaneous shape and topology optimization of prestressed concrete beams. Structural and Multidisciplinary Optimization, 2018, 57, 1831-1843.	1.7	34
22	Topology Optimization with Stress Constraints Using Isotropic Damage with Strain Softening. , 2018, , 991-1008.		3
23	Topology and shape optimization with explicit geometric constraints using a spline-based representation and a fixed grid. Procedia Manufacturing, 2018, 21, 189-196.	1.9	21
24	Optimizationâ€based minimumâ€cost seismic retrofitting of hysteretic frames with nonlinear fluid viscous dampers. Earthquake Engineering and Structural Dynamics, 2018, 47, 2985-3005.	2.5	38
25	Achieving stress-constrained topological design via length scale control. Structural and Multidisciplinary Optimization, 2018, 58, 2053-2071.	1.7	20
26	Minimumâ€cost optimization of nonlinear fluid viscous dampers and their supporting members for seismic retrofitting. Earthquake Engineering and Structural Dynamics, 2017, 46, 1941-1961.	2.5	61
27	Topological interlocking in architecture: A new design method and computational tool for designing building floors. International Journal of Architectural Computing, 2017, 15, 107-118.	0.9	20
28	Topology optimization for additive manufacturing: Accounting for overhang limitations using a virtual skeleton. Additive Manufacturing, 2017, 18, 58-73.	1.7	48
29	Truss optimization with buckling considerations using geometrically nonlinear beam modeling. Computers and Structures, 2017, 192, 233-247.	2.4	34
30	Stress-constrained continuum topology optimization: a new approach based on elasto-plasticity. Structural and Multidisciplinary Optimization, 2017, 55, 1797-1818.	1.7	34
31	Topology optimization for additive manufacturing: Accounting for overhang limitations using a virtual skeleton. , 2017, 18, 58-58.		1
32	Towards realistic minimum-cost optimization of viscous fluid dampers for seismic retrofitting. Bulletin of Earthquake Engineering, 2016, 14, 971-998.	2.3	34
33	Topological interlocking in buildings: A case for the design and construction of floors. Automation in Construction, 2016, 72, 18-25.	4.8	29
34	Intricate Interrelation Between Robustness and Probability in the Context of Structural Optimization. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2015, 1, .	0.7	3
35	Revisiting approximate reanalysis in topology optimization: on the advantages of recycled preconditioning in a minimum weight procedure. Structural and Multidisciplinary Optimization, 2015, 51, 41-57.	1.7	32
36	On multigrid-CG for efficient topology optimization. Structural and Multidisciplinary Optimization, 2014, 49, 815-829.	1.7	128

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37	Simultaneous topology and sizing optimization of viscous dampers in seismic retrofitting of 3D irregular frame structures. Earthquake Engineering and Structural Dynamics, 2014, 43, 1325-1342.	2.5	48
38	Reinforcement layout design for concrete structures based on continuum damage and truss topology optimization. Structural and Multidisciplinary Optimization, 2013, 47, 157-174.	1.7	93
39	A topology optimization procedure for reinforced concrete structures. Computers and Structures, 2013, 114-115, 46-58.	2.4	85
40	Efficient reanalysis techniques for robust topology optimization. Computer Methods in Applied Mechanics and Engineering, 2012, 245-246, 217-231.	3.4	50
41	Conceptual design of reinforced concrete structures using topology optimization with elastoplastic material modeling. International Journal for Numerical Methods in Engineering, 2012, 90, 1578-1597.	1.5	82
42	On reducing computational effort in topology optimization: how far can we go?. Structural and Multidisciplinary Optimization, 2011, 44, 25-29.	1.7	48
43	Efficient use of iterative solvers in nested topology optimization. Structural and Multidisciplinary Optimization, 2010, 42, 55-72.	1.7	68
44	Approximate reanalysis in topology optimization. International Journal for Numerical Methods in Engineering, 2009, 78, 1474-1491.	1.5	81
45	Efficient non-linear reanalysis of skeletal structures using combined approximations. International Journal for Numerical Methods in Engineering, 2008, 73, 1328-1346.	1.5	22