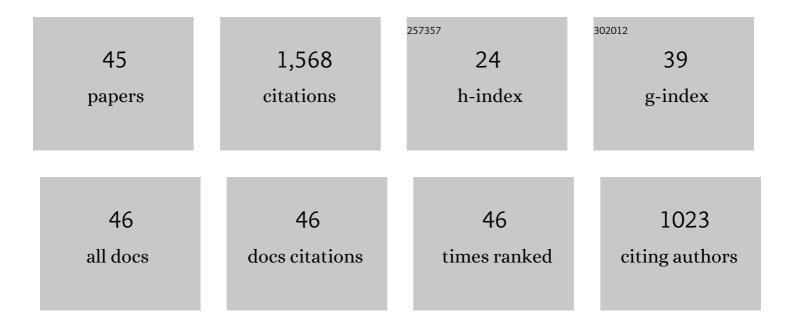
Oded Amir

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	3D printing of a post-tensioned concrete girder designed by topology optimization. Automation in Construction, 2020, 112, 103084.	4.8	165
2	On multigrid-CG for efficient topology optimization. Structural and Multidisciplinary Optimization, 2014, 49, 815-829.	1.7	128
3	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
4	A topology optimization procedure for reinforced concrete structures. Computers and Structures, 2013, 114-115, 46-58.	2.4	85
5	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
6	Approximate reanalysis in topology optimization. International Journal for Numerical Methods in Engineering, 2009, 78, 1474-1491.	1.5	81
7	Efficient use of iterative solvers in nested topology optimization. Structural and Multidisciplinary Optimization, 2010, 42, 55-72.	1.7	68
8	Minimum ost 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
9	Efficient reanalysis techniques for robust topology optimization. Computer Methods in Applied Mechanics and Engineering, 2012, 245-246, 217-231.	3.4	50
10	On reducing computational effort in topology optimization: how far can we go?. Structural and Multidisciplinary Optimization, 2011, 44, 25-29.	1.7	48
11	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
12	Topology optimization for additive manufacturing: Accounting for overhang limitations using a virtual skeleton. Additive Manufacturing, 2017, 18, 58-73.	1.7	48
13	Topology optimization of dielectric elastomers for wide tunable band gaps. International Journal of Solids and Structures, 2018, 143, 262-273.	1.3	41
14	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
15	Level-set topology optimization considering nonlinear thermoelasticity. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112735.	3.4	36
16	Towards realistic minimum-cost optimization of viscous fluid dampers for seismic retrofitting. Bulletin of Earthquake Engineering, 2016, 14, 971-998.	2.3	34
17	Truss optimization with buckling considerations using geometrically nonlinear beam modeling. Computers and Structures, 2017, 192, 233-247.	2.4	34
18	Stress-constrained continuum topology optimization: a new approach based on elasto-plasticity. Structural and Multidisciplinary Optimization, 2017, 55, 1797-1818.	1.7	34

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19	Simultaneous shape and topology optimization of prestressed concrete beams. Structural and Multidisciplinary Optimization, 2018, 57, 1831-1843.	1.7	34
20	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
21	Consistent boundary conditions for PDE filter regularization in topology optimization. Structural and Multidisciplinary Optimization, 2020, 62, 1299-1311.	1.7	31
22	Adjoint sensitivity analysis and optimization of hysteretic dynamic systems with nonlinear viscous dampers. Structural and Multidisciplinary Optimization, 2018, 57, 2273-2289.	1.7	30
23	Topological interlocking in buildings: A case for the design and construction of floors. Automation in Construction, 2016, 72, 18-25.	4.8	29
24	Topology optimization for staged construction. Structural and Multidisciplinary Optimization, 2018, 57, 1679-1694.	1.7	28
25	Efficient non-linear reanalysis of skeletal structures using combined approximations. International Journal for Numerical Methods in Engineering, 2008, 73, 1328-1346.	1.5	22
26	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
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	Achieving stress-constrained topological design via length scale control. Structural and Multidisciplinary Optimization, 2018, 58, 2053-2071.	1.7	20
29	Efficient stress onstrained topology optimization using inexact design sensitivities. International Journal for Numerical Methods in Engineering, 2021, 122, 3241-3272.	1.5	19
30	Concurrent structural optimization of buckling-resistant trusses and their initial imperfections. International Journal of Solids and Structures, 2019, 162, 244-258.	1.3	13
31	Mixed projection- and density-based topology optimization with applications to structural assemblies. Structural and Multidisciplinary Optimization, 2020, 61, 687-710.	1.7	11
32	The effect of block geometry on structural behavior of topological interlocking assemblies. Automation in Construction, 2021, 128, 103717.	4.8	11
33	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
34	Concurrent high-resolution topology optimization of structures and their supports for additive manufacturing. Structural and Multidisciplinary Optimization, 2021, 63, 2589-2612.	1.7	9
35	Optimization of post-tensioned concrete slabs for minimum cost. Engineering Structures, 2022, 259, 114132.	2.6	9
36	Layout optimization of post-tensioned cables in concrete slabs. Structural and Multidisciplinary Optimization, 2021, 63, 1951-1974.	1.7	8

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#	Article	IF	CITATIONS
37	Topology optimization for the computationally poor: efficient high resolution procedures using beam modeling. Structural and Multidisciplinary Optimization, 2019, 59, 165-184.	1.7	7
38	Structural optimization with explicit geometric constraints using a B-spline representation. Mechanics Based Design of Structures and Machines, 2020, , 1-32.	3.4	6
39	Stress-constrained topology optimization with precise and explicit geometric boundaries. Structural and Multidisciplinary Optimization, 2022, 65, 1.	1.7	6
40	Plastic work constrained elastoplastic topology optimization. International Journal for Numerical Methods in Engineering, 2021, 122, 4354-4377.	1.5	4
41	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
42	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
43	Topology Optimization with Stress Constraints Using Isotropic Damage with Strain Softening. , 2018, , 991-1008.		3
44	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
45	Topology optimization for additive manufacturing: Accounting for overhang limitations using a virtual skeleton. , 2017, 18, 58-58.		1