Makoto Ohsaki

List of Publications by Year
in descending order

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Version: 2024-02-01

235	3,122	178989	232741
papers	citations	28 h-index	45 g-index

245	245	245	1466
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adaptive force density method for form-finding problem of tensegrity structures. International Journal of Solids and Structures, 2006, 43, 5658-5673.	2.7	248
2	Stability conditions for tensegrity structures. International Journal of Solids and Structures, 2007, 44, 3875-3886.	2.7	135
3	Genetic algorithm for topology optimization of trusses. Computers and Structures, 1995, 57, 219-225.	4.5	125
4	Topology optimization of trusses by growing ground structure method. Structural and Multidisciplinary Optimization, 2009, 37, 377-393.	3.6	75
5	Symmetric prismatic tensegrity structures: Part I. Configuration and stability. International Journal of Solids and Structures, 2009, 46, 1-14.	2.7	74
6	Stability conditions of prestressed pin-jointed structures. International Journal of Non-Linear Mechanics, 2006, 41, 1109-1117.	2.7	70
7	Semi-definite programming for topology optimization of trusses under multiple eigenvalue constraints. Computer Methods in Applied Mechanics and Engineering, 1999, 180, 203-217.	6.7	69
8	Development of peer-to-peer (P2P) internet online hybrid test system. Earthquake Engineering and Structural Dynamics, 2006, 35, 867-890.	4.4	54
9	A direct approach to design of geometry and forces of tensegrity systems. International Journal of Solids and Structures, 2006, 43, 2260-2278.	2.7	53
10	Finiteâ€element analysis of laminated rubber bearing of building frame under seismic excitation. Earthquake Engineering and Structural Dynamics, 2015, 44, 1881-1898.	4.4	50
11	Self-equilibrium and stability of regular truncated tetrahedral tensegrity structures. Journal of the Mechanics and Physics of Solids, 2012, 60, 1757-1770.	4.9	49
12	Topology optimization of trusses with stress and local constraints on nodal stability and member intersection. Structural and Multidisciplinary Optimization, 2005, 29, 190-197.	3.6	47
13	Optimization of link member of eccentrically braced frames for maximum energy dissipation. Journal of Constructional Steel Research, 2012, 75, 38-44.	3.9	47
14	Design sensitivity analysis of elastoplastic structures. International Journal for Numerical Methods in Engineering, 1994, 37, 737-762.	2.9	44
15	Shape optimization of reduced beam section under cyclic loads. Journal of Constructional Steel Research, 2009, 65, 1511-1519.	3.9	42
16	Group Symmetry in Interior-Point Methods for Semidefinite Program. Optimization and Engineering, 2001, 2, 293-320.	2.4	41
17	Symmetric prismatic tensegrity structures. Part II: Symmetry-adapted formulations. International Journal of Solids and Structures, 2009, 46, 15-30.	2.7	39
18	Shape design of pin-jointed multistable compliant mechanisms using snapthrough behavior. Structural and Multidisciplinary Optimization, 2005, 30, 327-334.	3.6	38

#	Article	IF	Citations
19	Optimization of Finite Dimensional Structures. , 0, , .		38
20	Simultaneous optimization of topology and geometry of a regular plane truss. Computers and Structures, 1998, 66, 69-77.	4.5	36
21	Large-deformation and friction analysis of non-linear elastic cable networks by second-order cone programming. International Journal for Numerical Methods in Engineering, 2002, 55, 1079-1114.	2.9	36
22	Reinforcement Learning and Graph Embedding for Binary Truss Topology Optimization Under Stress and Displacement Constraints. Frontiers in Built Environment, 2020, 6, .	2.3	35
23	A natural generator of optimum topology of plane trusses for specified fundamental frequency. Computer Methods in Applied Mechanics and Engineering, 1992, 94, 113-129.	6.7	33
24	Dihedral â€˜starâ€™ tensegrity structures. International Journal of Solids and Structures, 2010, 47, 1-9.	2.7	33
25	Nonlinear programming approach to form-finding and folding analysis of tensegrity structures using fictitious material properties. International Journal of Solids and Structures, 2015, 69-70, 1-10.	2.7	33
26	Prediction of non-linear buckling load of imperfect reticulated shell using modified consistent imperfection and machine learning. Engineering Structures, 2021, 226, 111374.	5.4	30
27	Optimization of geometrically non-linear symmetric systems with coincident critical points. International Journal for Numerical Methods in Engineering, 2000, 48, 1345-1357.	2.9	29
28	Highâ€precision finite element analysis of elastoplastic dynamic responses of superâ€highâ€rise steel frames. Earthquake Engineering and Structural Dynamics, 2009, 38, 635-654.	4.4	29
29	Dynamic FE simulation of fourâ€story steel frame modeled by solid elements and its validation using results of fullâ€scale shakeâ€table test. Earthquake Engineering and Structural Dynamics, 2015, 44, 1449-1469.	4.4	29
30	Multi-objective optimization for prestress design of cable-strut structures. International Journal of Solids and Structures, 2019, 165, 137-147.	2.7	28
31	Sequential optimal truss generator for frequency ranges. Computer Methods in Applied Mechanics and Engineering, 1988, 67, 189-209.	6.7	27
32	Multiobjective heuristic approaches to seismic design of steel frames with standard sections. Earthquake Engineering and Structural Dynamics, 2007, 36, 1481-1495.	4.4	26
33	Random search method based on exact reanalysis for topology optimization of trusses with discrete cross-sectional areas. Computers and Structures, 2001, 79, 673-679.	4.5	25
34	Shape optimization for non-linear buckling load of aluminum alloy reticulated shells with gusset joints. Thin-Walled Structures, 2020, 154, 106830.	5.4	25
35	Optimum design with imperfection sensitivity coefficients for limit point loads. Structural Optimization, 1994, 8, 131-137.	0.7	24
36	Minimum principle of complementary energy of cable networks by using second-order cone programming. International Journal of Solids and Structures, 2003, 40, 4437-4460.	2.7	23

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37	Shape-Size Optimization of Plane Trusses with Designer's Preference. Journal of Structural Engineering, 1998, 124, 1323-1330.	3.5	20
38	Simplified methods for design of base-isolated structures in the long-period high-damping range. Earthquake Engineering and Structural Dynamics, 2006, 35, 497-515.	4.4	20
39	Optimal placement of braces for steel frames with semi-rigid joints by scatter search. Computers and Structures, 2008, 86, 1983-1993.	4.5	20
40	Graph-based reinforcement learning for discrete cross-section optimization of planar steel frames. Advanced Engineering Informatics, 2022, 51, 101512.	8.3	20
41	Design sensitivity analysis and optimization for nonlinear buckling of finite-dimensional elastic conservative structures. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 3331-3358.	6.7	19
42	Shape Optimization of H-Beam Flange for Maximum Plastic Energy Dissipation. Journal of Structural Engineering, 2007, 133, 1176-1179.	3.5	19
43	Force identification of prestressed pin-jointed structures. Computers and Structures, 2011, 89, 2361-2368.	4.5	18
44	Force density method for simultaneous optimization of geometry and topology of trusses. Structural and Multidisciplinary Optimization, 2017, 56, 1157-1168.	3.6	18
45	Optimization of imperfection-sensitive symmetric systems for specified maximum load factor. Computer Methods in Applied Mechanics and Engineering, 1998, 166, 349-362.	6.7	17
46	Shape Optimization of Free-Form Shells Using Invariants of Parametric Surface. International Journal of Space Structures, 2010, 25, 143-157.	0.9	17
47	Discrete elastica for shape design of gridshells. Engineering Structures, 2018, 169, 55-67.	5.4	17
48	Reinforcement learning for optimum design of a plane frame under static loads. Engineering With Computers, 2021, 37, 1999.	5.8	17
49	Sequential generator of earthquake-response constrained trusses for design strain ranges. Computers and Structures, 1989, 33, 1403-1416.	4.5	16
50	Imperfection sensitivity analysis of hill-top branching with many symmetric bifurcation points. International Journal of Solids and Structures, 2006, 43, 4704-4719.	2.7	16
51	Step-by-step unbalanced force iteration method for cable-strut structure with irregular shape. Engineering Structures, 2018, 177, 331-344.	5.4	16
52	SENSITIVITY ANALYSIS OF BIFURCATION LOAD OF FINITE-DIMENSIONAL SYMMETRIC SYSTEMS. International Journal for Numerical Methods in Engineering, 1996, 39, 1707-1720.	2.9	15
53	Generation of Link Mechanism by Shape-Topology Optimization of Trusses Considering Geometrical Nonlinearity. Journal of Computational Science and Technology, 2009, 3, 46-53.	0.4	15
54	Design of linkage mechanisms of partially rigid frames using limit analysis with quadratic yield functions. International Journal of Solids and Structures, 2016, 88-89, 68-78.	2.7	15

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55	Self-equilibrium and super-stability of truncated regular hexahedral and octahedral tensegrity structures. International Journal of Solids and Structures, 2019, 161, 182-192.	2.7	15
56	Optimization for energy absorption of 3-dimensional tensegrity lattice with truncated octahedral units. Composite Structures, 2021, 267, 113903.	5.9	15
57	Necessary and sufficient conditions for global optimality of eigenvalue optimization problems. Structural and Multidisciplinary Optimization, 2001, 22, 248-252.	3.6	14
58	Multiobjective Hybrid Optimizationâ€“Antioptimization for Force Design of Tensegrity Structures. Journal of Applied Mechanics, Transactions ASME, 2012, 79, .	2.3	13
59	FDMopt: Force density method for optimal geometry and topology of trusses. Advances in Engineering Software, 2019, 133, 12-19.	3.8	13
60	Topology optimization and shape design method for large-span tensegrity structures with reciprocal struts. International Journal of Solids and Structures, 2020, 206, 9-22.	2.7	13
61	A random search for discrete robust design optimization of linear-elastic steel frames under interval parametric uncertainty. Computers and Structures, 2021, 249, 106506.	4.5	13
62	Contact Analysis of Cable Networks by Using Second-Order Cone Programming. SIAM Journal of Scientific Computing, 2006, 27, 2032-2052.	2.8	12
63	Generalized sensitivity and probabilistic analysis of buckling loads of structures. International Journal of Non-Linear Mechanics, 2007, 42, 733-743.	2.7	12
64	Constraint approach to performance-based design of steel moment-resisting frames. Engineering Structures, 2007, 29, 186-194.	5.4	12
65	Enumeration of optimal pin-jointed bistable compliant mechanisms with non-crossing members. Structural and Multidisciplinary Optimization, 2009, 37, 645-651.	3.6	12
66	A non-interior implicit smoothing approach to complementarity problems for frictionless contacts. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 1176-1185.	6.7	12
67	Linear programming approach to design of spatial link mechanism with partially rigid joints. Structural and Multidisciplinary Optimization, 2014, 50, 945-956.	3.6	12
68	Machine-specified ground structures for topology optimization of binary trusses using graph embedding policy network. Advances in Engineering Software, 2021, 159, 103032.	3.8	12
69	Shape optimization of curves and surfaces considering fairness metrics and elastic stiffness. Structural and Multidisciplinary Optimization, 2002, 24, 449-456.	3.6	11
70	Local and global searches of approximate optimal designs of regular frames. International Journal for Numerical Methods in Engineering, 2006, 67, 132-147.	2.9	11
71	Parameter optimization of tetrahedral tuned mass damper for three-directional seismic response reduction. Engineering Structures, 2016, 126, 667-674.	5.4	11
72	A 3-dimensional elastic beam model for form-finding of bending-active gridshells. International Journal of Solids and Structures, 2020, 193-194, 328-337.	2.7	11

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73	Bayesian optimization for robust design of steel frames with joint and individual probabilistic constraints. Engineering Structures, 2021, 245, 112859.	5.4	11
74	Sensitivity analysis and optimization corresponding to a degenerate critical point. International Journal of Solids and Structures, 2001, 38, 4955-4967.	2.7	10
75	Sensitivity of Optimum Designs for Spatially Varying Ground Motions. Journal of Structural Engineering, 2001, 127, 1324-1329.	3.5	10
76	Maximum loads of imperfect systems corresponding to stable bifurcation. International Journal of Solids and Structures, 2002, 39, 927-941.	2.7	10
77	Imperfection sensitivity of hilltop branching points of systems with dihedral group symmetry. International Journal of Non-Linear Mechanics, 2005, 40, 755-774.	2.7	10
78	Configuration optimization of clamping members of frame-supported membrane structures. Engineering Structures, 2011, 33, 3620-3627.	5.4	10
79	Time-Variant System Reliability Assessment by Probability Density Evolution Method. Journal of Engineering Mechanics - ASCE, 2017, 143, .	3.1	10
80	Geometry and topology optimization of plane frames for compliance minimization using force density method for geometry model. Engineering With Computers, 2021, 37, 2029.	5.8	10
81	Shape optimization of no-tension arches subjected to in-plane loading. Structures, 2020, 28, 158-169.	3.7	10
82	Form-finding of aluminum alloy reticulated structures considering joint rigidity. Engineering Structures, 2021, 242, 112618.	5.4	10
83	Quantile-based sequential optimization and reliability assessment for shape and topology optimization of plane frames using L-moments. Structural Safety, 2022, 94, 102153.	5.5	10
84	Approximating uniform triangular meshes in polygons. Theoretical Computer Science, 2002, 289, 879-895.	0.9	9
85	Minimum Principle of Complementary Energy for Nonlinear Elastic Cable Networks with Geometrical Nonlinearities. Journal of Optimization Theory and Applications, 2005, 126, 617-641.	1.5	9
86	Non-uniqueness and symmetry of optimal topology of a shell for minimum compliance. Structural and Multidisciplinary Optimization, 2011, 43, 459-471.	3.6	9
87	Machine learning for combinatorial optimization of brace placement of steel frames. Japan Architectural Review, 2018, 1, 419-430.	1.2	9
88	Gaussian mixture model for robust design optimization of planar steel frames. Structural and Multidisciplinary Optimization, 2021, 63, 137-160.	3.6	9
89	Local-Coordinate Representation for Spatial Revolute Clearance Joints Based on a Vector-Form Particle-Element Method. International Journal of Structural Stability and Dynamics, 2021, 21, 2150093.	2.5	9
90	Shape optimization of piecewise developable free-form grid surface using plate components. Engineering Structures, 2021, 245, 112865.	5.4	9

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91	Developability conditions for prestress optimization of a curved surface. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 77-94.	6.7	8
92	Results of Recent E-Defense Tests on Full-Scale Steel Buildings: Part 2 â€" Collapse Simulation and Blind Analysis Contest. , 2008, , .		8
93	A random sampling approach to worst-case design of structures. Structural and Multidisciplinary Optimization, 2012, 46, 27-39.	3.6	8
94	Optimization of retractable structures utilizing bistable compliant mechanism. Engineering Structures, 2013, 56, 910-918.	5.4	8
95	FORM-FINDING OF COMPLEX TENGRITY STRUCTURES BY DYNAMIC RELAXATION METHOD. Journal of Structural and Construction Engineering, 2016, 81, 71-77.	0.4	8
96	An order statistics approach to multiobjective structural optimization considering robustness and confidence of responses. Mechanics Research Communications, 2019, 97, 33-38.	1.9	8
97	Sequential mixture of Gaussian processes and saddlepoint approximation for reliability-based design optimization of structures. Structural and Multidisciplinary Optimization, 2021, 64, 625.	3.6	8
98	Coupled structural and heat conduction FE analysis of laminated high damping rubber bearing. Earthquake Engineering and Structural Dynamics, 2021, 50, 2462-2487.	4.4	8
99	Form generation of rigid origami for approximation of a curved surface based on mechanical property of partially rigid frames. International Journal of Solids and Structures, 2021, 216, 182-199.	2.7	8
100	Bayesian optimization for inverse identification of cyclic constitutive law of structural steels from cyclic structural tests. Structures, 2022, 38, 1079-1097.	3.7	8
101	A direct application of higher-order parametric programming techniques to structural optimization. International Journal for Numerical Methods in Engineering, 1993, 36, 2683-2702.	2.9	7
102	Shape-stress trade-off design of membrane structures for specified sequence of boundary shapes. Computer Methods in Applied Mechanics and Engineering, 2000, 182, 73-88.	6.7	7
103	Sensitivity analysis of an optimized bar-spring model with hill-top branching. Archive of Applied Mechanics, 2003, 73, 241-251.	2.2	7
104	Imperfection sensitivity of optimal symmetric braced frames against buckling. International Journal of Non-Linear Mechanics, 2003, 38, 1103-1117.	2.7	7
105	Enumerating Non-crossing Minimally Rigid Frameworks. Graphs and Combinatorics, 2007, 23, 117-134.	0.5	7
106	Optimizationâ€based stability analysis of structures under unilateral constraints. International Journal for Numerical Methods in Engineering, 2009, 77, 90-125.	2.9	7
107	ANALYSIS OF STABILITY AND MECHANISM OF FRAMES WITH PARTIALLY RIGID CONNECTIONS. Journal of Structural and Construction Engineering, 2013, 78, 791-798.	0.4	7
108	DETAILED FINITE ELEMENT ANALYSIS OF COMPOSITE BEAM UNDER CYCLIC LOADS. Journal of Structural and Construction Engineering, 2014, 79, 1481-1490.	0.4	7

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109	COMPARISON OF STRUCTURAL CHARACTERISTICS OF STEEL OFFICE BUILDINGS COMPOSED OF SPACE AND PERIMETER FRAME SYSTEMS. Journal of Structural and Construction Engineering, 2015, 80, 1469-1478.	0.4	7
110	A numerical method for form finding and shape optimization of reciprocal structures. Engineering Structures, 2019, 198, 109510.	5.4	7
111	Shape optimization of free-form shell structures combining static and dynamic behaviors. Structures, 2021, 29, 1791-1807.	3.7	7
112	Optimization method for shape design of Auxetic Bending-Active Gridshells using discrete differential geometry. Structures, 2021, 34, 1589-1602.	3.7	7
113	Symmetricity of the solution of semidefinite programming. Structural and Multidisciplinary Optimization, 2002, 24, 225-232.	3.6	6
114	Enumerating Constrained Non-crossing Minimally Rigid Frameworks. Discrete and Computational Geometry, 2008, 40, 31-46.	0.7	6
115	Combined interiorâ€point method and semismooth Newton method for frictionless contact problems. International Journal for Numerical Methods in Engineering, 2010, 81, 701-727.	2.9	6
116	SHAPE OPTIMIZATION OF SINGLE-LAYER LATTICED SHELLS FOR MAXIMUM LINEAR BUCKLING LOADS AND UNIFORM MEMBER LENGTHS. Journal of Structural and Construction Engineering, 2003, 68, 129-136.	0.4	6
117	Composition of curvilinearly extendable tubular scissor mechanisms. International Journal of Solids and Structures, 2022, 250, 111673.	2.7	6
118	Sensitivity Analysis of Elastoplastic Structures by Using Explicit Integration Method. Applied Mechanics Reviews, 1997, 50, S156-S161.	10.3	5
119	Structural optimization for specified nonlinear buckling load factor. Japan Journal of Industrial and Applied Mathematics, 2002, 19, 163-179.	0.9	5
120	Imperfection sensitivity of degenerate hilltop branching points. International Journal of Non-Linear Mechanics, 2009, 44, 324-336.	2.7	5
121	ULTIMATE LATERAL STRENGTH AND SEISMIC RESPONSE OF STEEL OFFICE BUILDINGS COMPOSED OF SPACE AND PERIMETER FRAME SYSTEMS. Journal of Structural and Construction Engineering, 2016, 81, 1743-1751.	0.4	5
122	New 3-bar prismatic tensegrity units. Composite Structures, 2018, 184, 306-313.	5.9	5
123	SUPERIOR DESIGN SOLUTIONS OF STEEL BUILDINGS INCLUDING STRENGTH AND LOCATION OF BUCKLING RESTRAINED BRACES IN DESIGN VARIABLES. Journal of Structural and Construction Engineering, 2021, 86, 642-650.	0.4	5
124	Structural properties of superior design solutions of steel buildings associated with BRBs. Structures, 2021, 34, 3851-3865.	3.7	5
125	SIMULTANEOUS OPTIMIZATION OF BRACE LOCATIONS AND CROSS-SECTIONS OF BEAMS AND COLUMNS OF STEEL FRAMES. Journal of Structural and Construction Engineering, 2018, 83, 1445-1454.	0.4	5
126	Non-parametric design of free-form shells with curved boundaries and specified reaction forces. Engineering Structures, 2022, 255, 113892.	5.4	5

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127	MINIMUM CONSTRAINT PERTURBATION METHOD FOR SYSTEM TOPOLOGY OPTIMIZATION. Engineering Optimization, 1996, 26, 171-186.	2.6	4
128	Sensitivity analysis of coincident critical loads with respect to minor imperfection. International Journal of Solids and Structures, 2001, 38, 4571-4583.	2.7	4
129	Synthesis of Bistable Compliant Structures from Truss Mechanisms. Journal of Computational Science and Technology, 2009, 3, 417-425.	0.4	4
130	PARAMETER OPTIMIZATION OF MASS DAMPER CONSISTING OF COMPLIANT MECHANISM FOR BI-DIRECTIONAL CONTROL OF SPATIAL STRUCTURES. Journal of Structural and Construction Engineering, 2012, 77, 379-387.	0.4	4
131	Seismic response of building frames with flexible base optimized for reverse rocking response. Engineering Structures, 2014, 74, 170-179.	5.4	4
132	Modeling and simulation of spring steel damper based on parameter identification with a heuristic optimization approach. Journal of Mechanical Science and Technology, 2015, 29, 1465-1472.	1.5	4
133	Series expansion method for determination of order of 3-dimensional bar-joint mechanism with arbitrarily inclined hinges. International Journal of Solids and Structures, 2018, 141-142, 78-85.	2.7	4
134	A Comprehensive Numerical Simulation of Steel-Concrete Composite Beam Incorporating Compressive Failure of Concrete. International Journal of Computational Methods, 2019, 16, 1840028.	1.3	4
135	SHAPE AND TOPOLOGY OPTIMIZATION OF LATTICED SHEAR WALL UTILISING CONTACT TO EXISTING FRAME. Journal of Structural and Construction Engineering, 2019, 84, 385-391.	0.4	4
136	Superior design solutions of section sizes in steel buildings for different lateral frame systems and column shapes. Japan Architectural Review, 2020, 3, 445-458.	1.2	4
137	Machine Learning for Extracting Features of Approximate Optimal Brace Locations for Steel Frames. Frontiers in Built Environment, 2021, 6, .	2.3	4
138	Discrete Gaussian Curvature Flow for Piecewise Constant Gaussian Curvature Surface. CAD Computer Aided Design, 2021, 134, 102992.	2.8	4
139	EVALUATION ON PLASTIC DEFORMATION CAPACITY OF STEEL BEAM ENDS WITH LOCAL BUCKLING AND FRACTURE UNDER CYCLIC LOADING USING FE ANALYSIS. Journal of Structural and Construction Engineering, 2020, 85, 105-115.	0.4	4
140	Sequential sampling approach to energyâ€based multiâ€objective design optimization of steel frames with correlated random parameters. Earthquake Engineering and Structural Dynamics, 2022, 51, 588-611.	4.4	4
141	Stability analysis of cableâ€“bar structures by inverse-power method for eigenvalue analysis with penalization. International Journal of Solids and Structures, 2008, 45, 4264-4273.	2.7	3
142	SHAPE OPTIMIZATION OF COMPLIANT MECHANISMS FOR SEISMIC ISOLATOR MODEL. Journal of Structural and Construction Engineering, 2010, 75, 113-119.	0.4	3
143	OPTIMIZATION OF A SHEAR-TYPE PANEL DAMPER USING FINITE ELEMENT ANALYSIS AND HEURISTIC APPROACH. Journal of Structural and Construction Engineering, 2013, 78, 1247-1252.	0.4	3
144	COMBINATORIAL OPTIMIZATION OF LATTICED BLOCKS COMPOSED OF VARIOUS UNIT SHAPES FOR SEISMIC RETROFIT. Journal of Structural and Construction Engineering, 2016, 81, 1657-1664.	0.4	3

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145	Stopping rule of multi-start local search for structural optimization. Structural and Multidisciplinary Optimization, 2018, 57, 595-603.	3.6	3
146	DESIGN OF DEPLOYABLE BAR STRUCTURE DEVELOPED FROM YOSHIMURA-PATTERN RIGID-ORIGAMI. AIJ Journal of Technology and Design, 2018, 24, 111-116.	0.2	3
147	Shape Design of Curved Surface of Membrane Structure Using Developable Surface. Journal of the International Association for Shell and Spatial Structures, 2018, 59, 199-214.	0.3	3
148	3-bar tensegrity units with non-equilateral triangle on an end plane. Mechanics Research Communications, 2018, 92, 124-130.	1.9	3
149	Investigation of equivalent correlation coefficient based on the Mehlerâ€™s formula. Engineering Computations, 2019, 36, 1169-1200.	1.5	3
150	SHAPE DESIGN OF MEMBRANE STRUCTURE USING GEOMETRIC INVARIANTS OF DISCRETE SURFACE. Journal of Structural and Construction Engineering, 2021, 86, 772-782.	0.4	3
151	Optimization of branching structures for free-form surfaces using force density method. Journal of Asian Architecture and Building Engineering, 2022, 21, 1458-1471.	1.9	3
152	Seismic Response Simulation of Building Structures. Springer Tracts in Mechanical Engineering, 2016, , 105-139.	0.0	3
153	FORM GENERATION OF RIGID-FOLDABLE ORIGAMI STRUCTURE USING FRAME MODEL. Journal of Environmental Engineering (Japan), 2019, 84, 597-605.	0.4	3
154	Multi-objective optimization of truss structure using multi-agent reinforcement learning and graph representation. Engineering Applications of Artificial Intelligence, 2024, 129, 107594.	8.3	3
155	53. Earthquake-strain constrained design for large space frames. , 1993, , 1: 497-506.		2
156	Optimum design of flexible structures under constraints on strain energy and asymptotic stability. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 4487-4496.	6.7	2
157	Topology Mining for Optimization of Framed Structures. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2008, 2, 417-428.	0.8	2
158	SHAPE OPTIMIZATION OF LATTICED SHELLS CONSISTING OF RULED SURFACE. Journal of Structural and Construction Engineering, 2016, 81, 2091-2099.	0.4	2
159	Topology optimization of supporting structure for seismic response reduction of an arch. Science China Technological Sciences, 2016, 59, 852-861.	4.0	2
160	SHAPE OPTIMIZATION OF FREE-FORM SHELLS CONSISTING OF DEVELOPABLE SURFACES. Journal of Structural and Construction Engineering, 2017, 82, 1137-1143.	0.4	2
161	Second-Order Cone Programming Approach to Design of Linkage Mechanisms With Arbitrarily Inclined Hinges. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	3.0	2
162	EVALUATION ON PLASTIC DEFORMATION CAPACITY OF WELDED BEAM ENDS UNDER CYCLIC LOADING USING FE ANALYSIS. Journal of Structural and Construction Engineering, 2019, 84, 695-704.	0.4	2

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163	SEISMIC RESPONSE ANALYSIS OF SUPER-HIGHRISE STEEL BUILDING FRAME MODELED USING SOLID ELEMENTS. Journal of Structural and Construction Engineering, 2019, 84, 39-49.	0.4	2
164	Group theoretic approach to large-deformation property of three-dimensional bar-hinge mechanism. Japan Journal of Industrial and Applied Mathematics, 2019, 36, 177-208.	0.9	2
165	Approximate cutting pattern optimization of frame-supported and pneumatic membrane structures. International Journal of Mechanics and Materials in Design, 2020, 16, 883-896.	3.1	2
166	Optimization of the rod forces in the reticular support structure of JUNO central detector. Structures, 2021, 33, 1645-1658.	3.7	2
167	CUTTING PATTERN OPTIMIZATION OF FRAME-SUPPORTED MEMBRANES CONSIDERING BOUNDARY SHAPE AND STRESS RATIO AS DESIGN PARAMETERS. Journal of Structural and Construction Engineering, 2001, 66, 73-78.	0.4	2
168	DEVELOPMENT OF ONLINE TEST SYSTEM USING SOCKET COMMUNICATION AND DISTRIBUTED COMPUTATION. Journal of Structural and Construction Engineering, 2006, 71, 31-37.	0.4	2
169	Triangulating a Convex Polygon with Small Number of Non-standard Bars. Lecture Notes in Computer Science, 2005, , 481-489.	1.0	2
170	Inverse generation of earthquake-strain constrained designs of a distributed parameter structure for a sequence of design strain functions. Computer Methods in Applied Mechanics and Engineering, 1992, 98, 1-21.	6.7	1
171	Maximum load factors corresponding to a slightly asymmetric bifurcation point. International Journal of Mechanical Sciences, 2004, 46, 1621-1634.	6.9	1
172	Shape Design of Bistable Compliant Mechanism by Utilizing Snapthrough Behavior. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2004, 70, 1689-1694.	0.2	1
173	Generation of Link Mechanism by Shape-Topology Optimization of Trusses Considering Geometrical Nonlinearity. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2007, 73, 659-665.	0.2	1
174	TOPOLOGY OPTIMIZATION OF DISCRETE STRUCTURES BY INTEGRATION OF HEURISTICS AND NONLINEAR PROGRAMMING. Journal of Structural and Construction Engineering, 2008, 73, 1959-1965.	0.4	1
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