

Makoto Ohsaki

List of Publications by Year in descending order

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235
papers

3,122
citations

178989

28
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232741

45
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245
all docs

245
docs citations

245
times ranked

1466
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-objective optimization of truss structure using multi-agent reinforcement learning and graph representation. <i>Engineering Applications of Artificial Intelligence</i> , 2024, 129, 107594.	8.3	3
2	Relationships between seismic design conditions and superior design solutions of steel buildings. <i>Japan Architectural Review</i> , 2023, 6, .	1.2	0
3	Structured triangular mesh generation method for free-form gridshells based on conformal mapping and virtual interaction forces. <i>Engineering Structures</i> , 2023, 295, 116879.	5.4	1
4	A design tool for globally developable discrete architectural surfaces using Ricci flow. <i>Japan Architectural Review</i> , 2023, 6, .	1.2	0
5	Optimization of branching structures for free-form surfaces using force density method. <i>Journal of Asian Architecture and Building Engineering</i> , 2022, 21, 1458-1471.	1.9	3
6	Quantile-based sequential optimization and reliability assessment for shape and topology optimization of plane frames using L-moments. <i>Structural Safety</i> , 2022, 94, 102153.	5.5	10
7	Sequential sampling approach to energy-based multi-objective design optimization of steel frames with correlated random parameters. <i>Earthquake Engineering and Structural Dynamics</i> , 2022, 51, 588-611.	4.4	4
8	Graph-based reinforcement learning for discrete cross-section optimization of planar steel frames. <i>Advanced Engineering Informatics</i> , 2022, 51, 101512.	8.3	20
9	Non-parametric design of free-form shells with curved boundaries and specified reaction forces. <i>Engineering Structures</i> , 2022, 255, 113892.	5.4	5
10	Bayesian optimization for inverse identification of cyclic constitutive law of structural steels from cyclic structural tests. <i>Structures</i> , 2022, 38, 1079-1097.	3.7	8
11	Implicit finite element analysis of ductile fracture of a steel frame under cyclic deformation. <i>Japan Architectural Review</i> , 2022, 5, 150-163.	1.2	0
12	Composition of curvilinearly extendable tubular scissor mechanisms. <i>International Journal of Solids and Structures</i> , 2022, 250, 111673.	2.7	6
13	Geometry and topology optimization of plane frames for compliance minimization using force density method for geometry model. <i>Engineering With Computers</i> , 2021, 37, 2029.	5.8	10
14	Reinforcement learning for optimum design of a plane frame under static loads. <i>Engineering With Computers</i> , 2021, 37, 1999.	5.8	17
15	Prediction of non-linear buckling load of imperfect reticulated shell using modified consistent imperfection and machine learning. <i>Engineering Structures</i> , 2021, 226, 111374.	5.4	30
16	Gaussian mixture model for robust design optimization of planar steel frames. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 137-160.	3.6	9
17	Multiobjective robust shape and topology optimization of plane frames using order statistics. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 75-94.	3.6	1
18	Machine Learning for Extracting Features of Approximate Optimal Brace Locations for Steel Frames. <i>Frontiers in Built Environment</i> , 2021, 6, .	2.3	4

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19	Shape optimization of free-form shell structures combining static and dynamic behaviors. Structures, 2021, 29, 1791-1807.	3.7	7
20	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
21	Robust geometry and topology optimization of plane frames using order statistics and force density method with global stability constraint. International Journal for Numerical Methods in Engineering, 2021, 122, 3653-3677.	2.9	1
22	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
23	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
24	Discrete Gaussian Curvature Flow for Piecewise Constant Gaussian Curvature Surface. CAD Computer Aided Design, 2021, 134, 102992.	2.8	4
25	SHAPE DESIGN OF MEMBRANE STRUCTURE USING GEOMETRIC INVARIANTS OF DISCRETE SURFACE. Journal of Structural and Construction Engineering, 2021, 86, 772-782.	0.4	3
26	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
27	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
28	Order Statistics Approach to Structural Optimization Considering Robustness and Confidence of Responses. , 2021, , 225-241.		1
29	Non-Parametric Shape Design of Free-Form Shells Using Fairness Measures and Discrete Differential Geometry. Journal of the International Association for Shell and Spatial Structures, 2021, 62, 93-101.	0.3	1
30	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
31	Optimization for energy absorption of 3-dimensional tensegrity lattice with truncated octahedral units. Composite Structures, 2021, 267, 113903.	5.9	15
32	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
33	Form-finding of aluminum alloy reticulated structures considering joint rigidity. Engineering Structures, 2021, 242, 112618.	5.4	10
34	Bayesian optimization for robust design of steel frames with joint and individual probabilistic constraints. Engineering Structures, 2021, 245, 112859.	5.4	11
35	Shape optimization of piecewise developable free-form grid surface using plate components. Engineering Structures, 2021, 245, 112865.	5.4	9
36	Optimization of the rod forces in the reticular support structure of JUNO central detector. Structures, 2021, 33, 1645-1658.	3.7	2

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37	Optimization method for shape design of Auxetic Bending-Active Gridshells using discrete differential geometry. Structures, 2021, 34, 1589-1602.	3.7	7
38	Structural properties of superior design solutions of steel buildings associated with BRBs. Structures, 2021, 34, 3851-3865.	3.7	5
39	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
40	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
41	Shape optimization of no-tension arches subjected to in-plane loading. Structures, 2020, 28, 158-169.	3.7	10
42	Shape optimization for non-linear buckling load of aluminum alloy reticulated shells with gusset joints. Thin-Walled Structures, 2020, 154, 106830.	5.4	25
43	Reinforcement Learning and Graph Embedding for Binary Truss Topology Optimization Under Stress and Displacement Constraints. Frontiers in Built Environment, 2020, 6, .	2.3	35
44	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
45	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
46	Parametric Study of Non-periodic and Hybrid Auxetic Bending-Active Gridshells. Journal of the International Association for Shell and Spatial Structures, 2020, 61, 275-284.	0.3	1
47	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
48	VERIFICATION AND VALIDATION OF CYCLIC SHEAR-BENDING ANALYSIS OF CFT-COLUMN USING E-SIMULATOR. AIJ Journal of Technology and Design, 2020, 26, 490-495.	0.2	0
49	STRUCTURAL OPTIMIZATION OF SUPPORTING STRUCTURE OF SCHOOL GYMNASIUM WITH STEEL ROOF FOR SEISMIC RESPONSE REDUCTION OF BEARING REACTION FORCES. Journal of Structural and Construction Engineering, 2020, 85, 61-71.	0.4	1
50	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
51	A numerical method for form finding and shape optimization of reciprocal structures. Engineering Structures, 2019, 198, 109510.	5.4	7
52	Investigation of equivalent correlation coefficient based on the Mehler's formula. Engineering Computations, 2019, 36, 1169-1200.	1.5	3
53	Multi-objective optimization for prestress design of cable-strut structures. International Journal of Solids and Structures, 2019, 165, 137-147.	2.7	28
54	An order statistics approach to multiobjective structural optimization considering robustness and confidence of responses. Mechanics Research Communications, 2019, 97, 33-38.	1.9	8

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55	FDMopt: Force density method for optimal geometry and topology of trusses. <i>Advances in Engineering Software</i> , 2019, 133, 12-19.	3.8	13
56	SHAPE AND TOPOLOGY OPTIMIZATION OF LATTICED SHEAR WALL UTILISING CONTACT TO EXISTING FRAME. <i>Journal of Structural and Construction Engineering</i> , 2019, 84, 385-391.	0.4	4
57	EVALUATION ON PLASTIC DEFORMATION CAPACITY OF WELDED BEAM ENDS UNDER CYCLIC LOADING USING FE ANALYSIS. <i>Journal of Structural and Construction Engineering</i> , 2019, 84, 695-704.	0.4	2
58	FINITE ELEMENT ANALYSIS OF SQUARE CONCRETE-FILLED-TUBE COLUMN UNDER CYCLIC SHEAR-BENDING CONSIDERING COMPRESSIVE DAMAGE OF CONCRETE. <i>Journal of Structural and Construction Engineering</i> , 2019, 84, 29-37.	0.4	1
59	SEISMIC RESPONSE ANALYSIS OF SUPER-HIGHRISE STEEL BUILDING FRAME MODELED USING SOLID ELEMENTS. <i>Journal of Structural and Construction Engineering</i> , 2019, 84, 39-49.	0.4	2
60	Self-equilibrium and super-stability of truncated regular hexahedral and octahedral tensegrity structures. <i>International Journal of Solids and Structures</i> , 2019, 161, 182-192.	2.7	15
61	Group theoretic approach to large-deformation property of three-dimensional bar-hinge mechanism. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2019, 36, 177-208.	0.9	2
62	FORM GENERATION OF RIGID-FOLDABLE ORIGAMI STRUCTURE USING FRAME MODEL. <i>Journal of Environmental Engineering (Japan)</i> , 2019, 84, 597-605.	0.4	3
63	SUPERIOR DESIGN SOLUTIONS OF SECTION SIZES IN STEEL BUILDINGS FOR DIFFERENT LATERAL FRAME SYSTEMS AND COLUMN SHAPES. <i>Journal of Structural and Construction Engineering</i> , 2019, 84, 1293-1303.	0.4	1
64	APPROXIMATE DESIGN SYSTEM OF FREE-FORM SURFACE COMBINING DEVELOPABLE SURFACES. <i>AJ Journal of Technology and Design</i> , 2019, 25, 129-134.	0.2	1
65	Series expansion method for determination of order of 3-dimensional bar-joint mechanism with arbitrarily inclined hinges. <i>International Journal of Solids and Structures</i> , 2018, 141-142, 78-85.	2.7	4
66	New 3-bar prismatic tensegrity units. <i>Composite Structures</i> , 2018, 184, 306-313.	5.9	5
67	Stopping rule of multi-start local search for structural optimization. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 595-603.	3.6	3
68	DESIGN OF DEPLOYABLE BAR STRUCTURE DEVELOPED FROM YOSHIMURA-PATTERN RIGID-ORIGAMI. <i>AJ Journal of Technology and Design</i> , 2018, 24, 111-116.	0.2	3
69	Shape Design of Curved Surface of Membrane Structure Using Developable Surface. <i>Journal of the International Association for Shell and Spatial Structures</i> , 2018, 59, 199-214.	0.3	3
70	Machine learning for combinatorial optimization of brace placement of steel frames. <i>Japan Architectural Review</i> , 2018, 1, 419-430.	1.2	9
71	Step-by-step unbalanced force iteration method for cable-strut structure with irregular shape. <i>Engineering Structures</i> , 2018, 177, 331-344.	5.4	16
72	Discrete elastica for shape design of gridshells. <i>Engineering Structures</i> , 2018, 169, 55-67.	5.4	17

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73	Second-Order Cone Programming Approach to Design of Linkage Mechanisms With Arbitrarily Inclined Hinges. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2018, 140, .	3.0	2
74	3-bar tensegrity units with non-equilateral triangle on an end plane. <i>Mechanics Research Communications</i> , 2018, 92, 124-130.	1.9	3
75	SIMULTANEOUS OPTIMIZATION OF BRACE LOCATIONS AND CROSS-SECTIONS OF BEAMS AND COLUMNS OF STEEL FRAMES. <i>Journal of Structural and Construction Engineering</i> , 2018, 83, 1445-1454.	0.4	5
76	Study on Material Parameters for Coupled Structural and Heat Conduction Analysis of Laminated High Damping Rubber Bearing. <i>The Proceedings of the Computational Mechanics Conference</i> , 2018, 2018.31, 036.	0.0	0
77	Multiobjective optimization considering robustness criteria based on order statistics. <i>The Proceedings of OPTIS</i> , 2018, 2018.13, 223.	0.0	0
78	Force density method for simultaneous optimization of geometry and topology of trusses. <i>Structural and Multidisciplinary Optimization</i> , 2017, 56, 1157-1168.	3.6	18
79	Time-Variant System Reliability Assessment by Probability Density Evolution Method. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	3.1	10
80	SHAPE OPTIMIZATION OF FREE-FORM SHELLS CONSISTING OF DEVELOPABLE SURFACES. <i>Journal of Structural and Construction Engineering</i> , 2017, 82, 1137-1143.	0.4	2
81	COMPUTATIONAL MORPHOGENESIS OF MINIMAL SURFACE REPRESENTED AS PARAMETRIC SURFACE. <i>Journal of Structural and Construction Engineering</i> , 2017, 82, 1299-1307.	0.4	0
82	SHAPE OPTIMIZATION OF LATTICED SHELLS CONSISTING OF RULED SURFACE. <i>Journal of Structural and Construction Engineering</i> , 2016, 81, 2091-2099.	0.4	2
83	Design of linkage mechanisms of partially rigid frames using limit analysis with quadratic yield functions. <i>International Journal of Solids and Structures</i> , 2016, 88-89, 68-78.	2.7	15
84	Parameter optimization of tetrahedral tuned mass damper for three-directional seismic response reduction. <i>Engineering Structures</i> , 2016, 126, 667-674.	5.4	11
85	COMBINATORIAL OPTIMIZATION OF LATTICED BLOCKS COMPOSED OF VARIOUS UNIT SHAPES FOR SEISMIC RETROFIT. <i>Journal of Structural and Construction Engineering</i> , 2016, 81, 1657-1664.	0.4	3
86	ULTIMATE LATERAL STRENGTH AND SEISMIC RESPONSE OF STEEL OFFICE BUILDINGS COMPOSED OF SPACE AND PERIMETER FRAME SYSTEMS. <i>Journal of Structural and Construction Engineering</i> , 2016, 81, 1743-1751.	0.4	5
87	FORM-FINDING OF COMPLEX TENGRITY STRUCTURES BY DYNAMIC RELAXATION METHOD. <i>Journal of Structural and Construction Engineering</i> , 2016, 81, 71-77.	0.4	8
88	SHAPE GENERATION OF TREE-TYPE SUPPORT STRUCTURE OF FREE-FORM SHELL USING FRACTAL GEOMETRY. <i>Journal of Structural and Construction Engineering</i> , 2016, 81, 1761-1769.	0.4	0
89	Topology optimization of supporting structure for seismic response reduction of an arch. <i>Science China Technological Sciences</i> , 2016, 59, 852-861.	4.0	2
90	Seismic Response Simulation of Building Structures. <i>Springer Tracts in Mechanical Engineering</i> , 2016, , 105-139.	0.0	3

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91	Combinatorial optimization of brace placement of steel frames. The Proceedings of OPTIS, 2016, 2016.12, 2208.	0.0	1
92	Accelerated gradient method for geometrically nonlinear analysis of framed structures. The Proceedings of OPTIS, 2016, 2016.12, 1213.	0.0	1
93	SHAPE OPTIMIZATION OF LATTICED BLOCKS FOR SEISMIC RETROFIT OF BUILDING FRAMES. Journal of Structural and Construction Engineering, 2015, 80, 1427-1434.	0.4	0
94	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
95	Shape optimization of latticed blocks for seismic retrofit of building frames. IABSE Symposium Report, 2015, , .	1.0	1
96	Prismatic Structures of Dihedral Symmetry. Mathematics for Industry, 2015, , 171-203.	0.0	0
97	Star-Shaped Structures of Dihedral Symmetry. Mathematics for Industry, 2015, , 205-231.	0.0	0
98	Dynamic FE simulation of four-story steel frame modeled by solid elements and its validation using results of full-scale shake-table test. Earthquake Engineering and Structural Dynamics, 2015, 44, 1449-1469.	4.4	29
99	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
100	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
101	Finite element analysis of laminated rubber bearing of building frame under seismic excitation. Earthquake Engineering and Structural Dynamics, 2015, 44, 1881-1898.	4.4	50
102	Force Density Method. Mathematics for Industry, 2015, , 137-170.	0.0	0
103	Self-equilibrium Analysis by Symmetry. Mathematics for Industry, 2015, , 55-96.	0.0	0
104	Regular Truncated Tetrahedral Structures. Mathematics for Industry, 2015, , 233-248.	0.0	0
105	Linear programming approach to design of spatial link mechanism with partially rigid joints. Structural and Multidisciplinary Optimization, 2014, 50, 945-956.	3.6	12
106	Seismic response of building frames with flexible base optimized for reverse rocking response. Engineering Structures, 2014, 74, 170-179.	5.4	4
107	DETAILED FINITE ELEMENT ANALYSIS OF COMPOSITE BEAM UNDER CYCLIC LOADS. Journal of Structural and Construction Engineering, 2014, 79, 1481-1490.	0.4	7
108	A DESIGN METHOD FOR OPTIMAL TRUSS STRUCTURES WITH REDUNDANCY BASED ON COMBINATORIAL RIGIDITY THEORY. Journal of Structural and Construction Engineering, 2014, 79, 583-592.	0.4	0

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109	Optimization Methods for Design of Flexible Structures. Proceedings of the Optimization Symposium, 2014, 2014.11, _2-1_-2-5_.	0.0	0
110	2208 Stopping rules of local search for optimization of building frames. Proceedings of the Optimization Symposium, 2014, 2014.11, _2208-1_-2208-5_.	0.0	0
111	Optimization of retractable structures utilizing bistable compliant mechanism. Engineering Structures, 2013, 56, 910-918.	5.4	8
112	Shape Optimization of Energy Dissipation Devices for Passive Seismic Control of Building Frames. , 2013, , .		0
113	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
114	ANALYSIS OF STABILITY AND MECHANISM OF FRAMES WITH PARTIALLY RIGID CONNECTIONS. Journal of Structural and Construction Engineering, 2013, 78, 791-798.	0.4	7
115	Multiobjective Hybrid Optimization“Antioptimization for Force Design of Tensegrity Structures. Journal of Applied Mechanics, Transactions ASME, 2012, 79, .	2.3	13
116	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
117	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
118	A random sampling approach to worst-case design of structures. Structural and Multidisciplinary Optimization, 2012, 46, 27-39.	3.6	8
119	Optimization of link member of eccentrically braced frames for maximum energy dissipation. Journal of Constructional Steel Research, 2012, 75, 38-44.	3.9	47
120	Force identification of prestressed pin-jointed structures. Computers and Structures, 2011, 89, 2361-2368.	4.5	18
121	Configuration optimization of clamping members of frame-supported membrane structures. Engineering Structures, 2011, 33, 3620-3627.	5.4	10
122	Non-uniqueness and symmetry of optimal topology of a shell for minimum compliance. Structural and Multidisciplinary Optimization, 2011, 43, 459-471.	3.6	9
123	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
124	Shape Optimization of Free-Form Shells Using Invariants of Parametric Surface. International Journal of Space Structures, 2010, 25, 143-157.	0.9	17
125	SHAPE OPTIMIZATION OF COMPLIANT MECHANISMS FOR SEISMIC ISOLATOR MODEL. Journal of Structural and Construction Engineering, 2010, 75, 113-119.	0.4	3
126	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

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127	Dihedral "star" tensegrity structures. International Journal of Solids and Structures, 2010, 47, 1-9.	2.7	33
128	Optimization-based stability analysis of structures under unilateral constraints. International Journal for Numerical Methods in Engineering, 2009, 77, 90-125.	2.9	7
129	Topology optimization of trusses by growing ground structure method. Structural and Multidisciplinary Optimization, 2009, 37, 377-393.	3.6	75
130	Enumeration of optimal pin-jointed bistable compliant mechanisms with non-crossing members. Structural and Multidisciplinary Optimization, 2009, 37, 645-651.	3.6	12
131	Imperfection sensitivity of degenerate hilltop branching points. International Journal of Non-Linear Mechanics, 2009, 44, 324-336.	2.7	5
132	Shape optimization of reduced beam section under cyclic loads. Journal of Constructional Steel Research, 2009, 65, 1511-1519.	3.9	42
133	Symmetric prismatic tensegrity structures. Part II: Symmetry-adapted formulations. International Journal of Solids and Structures, 2009, 46, 15-30.	2.7	39
134	Symmetric prismatic tensegrity structures: Part I. Configuration and stability. International Journal of Solids and Structures, 2009, 46, 1-14.	2.7	74
135	High-precision finite element analysis of elastoplastic dynamic responses of super-high-rise steel frames. Earthquake Engineering and Structural Dynamics, 2009, 38, 635-654.	4.4	29
136	Synthesis of Bistable Compliant Structures from Truss Mechanisms. Journal of Computational Science and Technology, 2009, 3, 417-425.	0.4	4
137	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
138	A Practical Variant of the Semismooth Newton Method for Frictionless Contact Problems. Journal of Computational Science and Technology, 2009, 3, 54-65.	0.4	0
139	Probabilistic analysis of buckling loads of structures via extended Koiter law. Structural Engineering and Mechanics, 2009, 32, 167-178.	1.0	0
140	Enumerating Constrained Non-crossing Minimally Rigid Frameworks. Discrete and Computational Geometry, 2008, 40, 31-46.	0.7	6
141	Optimal placement of braces for steel frames with semi-rigid joints by scatter search. Computers and Structures, 2008, 86, 1983-1993.	4.5	20
142	Stability analysis of cable-bar structures by inverse-power method for eigenvalue analysis with penalization. International Journal of Solids and Structures, 2008, 45, 4264-4273.	2.7	3
143	Results of Recent E-Defense Tests on Full-Scale Steel Buildings: Part 2 " Collapse Simulation and Blind Analysis Contest. , 2008, , .		8
144	Topology Mining for Optimization of Framed Structures. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2008, 2, 417-428.	0.8	2

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145	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
146	125 Topology optimization for truss structure with specified equilibrium path. The Proceedings of OPTIS, 2008, 2008.8, 131-136.	0.0	0
147	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
148	Shape Optimization of H-Beam Flange for Maximum Plastic Energy Dissipation. Journal of Structural Engineering, 2007, 133, 1176-1179.	3.5	19
149	Multiobjective heuristic approaches to seismic design of steel frames with standard sections. Earthquake Engineering and Structural Dynamics, 2007, 36, 1481-1495.	4.4	26
150	Triangulating a convex polygon with fewer number of non-standard bars. Theoretical Computer Science, 2007, 389, 143-151.	0.9	0
151	Stability conditions for tensegrity structures. International Journal of Solids and Structures, 2007, 44, 3875-3886.	2.7	135
152	Generalized sensitivity and probabilistic analysis of buckling loads of structures. International Journal of Non-Linear Mechanics, 2007, 42, 733-743.	2.7	12
153	Enumerating Non-crossing Minimally Rigid Frameworks. Graphs and Combinatorics, 2007, 23, 117-134.	0.5	7
154	Constraint approach to performance-based design of steel moment-resisting frames. Engineering Structures, 2007, 29, 186-194.	5.4	12
155	APPLICATION OF MULTIGRID METHOD TO THREE-DIMENSIONAL INCOMPRESSIBLE VISCOUS FLOW ANALYSIS AROUND SHELL ROOFS. Journal of Structural and Construction Engineering, 2007, 72, 135-142.	0.4	1
156	SEMIDEFINITE PROGRAMMING FOR STRUCTURAL OPTIMIZATION. , 2007, , 541-567.		0
157	Introduction to Design Sensitivity Analysis. , 2007, , 3-14.		0
158	Hilltop Branching Point III: Degenerate. , 2007, , 137-151.		0
159	Worst Imperfection: Asymptotic Theory. , 2007, , 155-167.		0
160	Worst Imperfection: Anti-optimization by LP and QP. , 2007, , 169-180.		0
161	Worst Imperfection for Stable Bifurcation. , 2007, , 181-191.		0
162	Random Imperfections: Theory. , 2007, , 193-202.		0

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163	Random Imperfections of Elasto-Plastic Solids. , 2007, , 203-211.		0
164	Random Imperfections: Higher-Order Analysis. , 2007, , 213-224.		0
165	Methods of Design Sensitivity Analysis. , 2007, , 15-34.		0
166	Imperfection Sensitivity Analysis. , 2007, , 35-57.		0
167	Optimization Under Stability Constraints. , 2007, , 61-76.		0
168	Optimal Structures Under Snapthrough Constraint. , 2007, , 77-86.		0
169	Shape Optimization of Compliant Mechanisms. , 2007, , 87-99.		0
170	Optimal Braced Frames with Coincident Buckling Loads. , 2007, , 101-114.		0
171	Hilltop Branching Point I: Simple Bifurcation. , 2007, , 115-126.		0
172	Hilltop Branching Point II: Multiple Bifurcations. , 2007, , 127-136.		0
173	Contact Analysis of Cable Networks by Using Second-Order Cone Programming. SIAM Journal of Scientific Computing, 2006, 27, 2032-2052.	2.8	12
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