

Zhan Kang

List of Publications by Year in descending order

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144
papers

7,695
citations

53751

45
h-index

56687

83
g-index

147
all docs

147
docs citations

147
times ranked

5828
citing authors

#	ARTICLE	IF	CITATIONS
1	A velocity field level set method for topology optimization of piezoelectric layer on the plate with active vibration control. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 1326-1339.	1.5	6
2	A Superstretchable and Highly Sensitive Carbon Nanotube Capacitive Strain Sensor for Wearable Applications and Soft Robotics. <i>Advanced Materials Technologies</i> , 2022, 7, 2100769.	3.0	36
3	Velocity Field Level Set Method Incorporating Topological Derivatives for Topology Optimization. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2022, 89, .	1.1	2
4	A new form of forbidden frequency band constraint for dynamic topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, 1.	1.7	5
5	Stiffness modulation-driven transfer printing and strain isolation in stretchable electronics. <i>Materials and Design</i> , 2022, 217, 110602.	3.3	6
6	Nonlinear analysis of carbon nanotube reinforced functionally graded plates with magneto-electro-elastic multiphase matrix. <i>Composite Structures</i> , 2022, 297, 115969.	3.1	17
7	Tailoring the thermal and mechanical properties of injection-molded poly (lactic acid) parts through annealing. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49648.	1.3	14
8	Topology optimization for minimum stress design with embedded movable holes. <i>Computers and Structures</i> , 2021, 244, 106455.	2.4	8
9	Realization of full and directional band gap design by non-gradient topology optimization in acoustic metamaterials. <i>Extreme Mechanics Letters</i> , 2021, 42, 101126.	2.0	55
10	Non-uniform self-folding of impure graphene. <i>International Journal of Mechanical Sciences</i> , 2021, 193, 106158.	3.6	6
11	Topological design of microstructures using periodic material-field series-expansion and gradient-free optimization algorithm. <i>Materials and Design</i> , 2021, 199, 109437.	3.3	26
12	Integrated design optimization of structural topology and heat source layout. <i>International Journal of Heat and Mass Transfer</i> , 2021, 169, 120943.	2.5	12
13	Photonic Band Gap Material Topological Design at Specified Target Frequency. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100125.	1.3	8
14	Design of multi-material soft pneumatic modules. <i>Smart Materials and Structures</i> , 2021, 30, 095006.	1.8	7
15	Multi-electrode layout design of electrorheological composite plates considering energy consumption in semi-active control. <i>Thin-Walled Structures</i> , 2021, 165, 108001.	2.7	2
16	Robust topology optimization for structures under bounded random loads and material uncertainties. <i>Computers and Structures</i> , 2021, 252, 106569.	2.4	24
17	MATLAB implementations of velocity field level set method for topology optimization: an 80-line code for 2D and a 100-line code for 3D problems. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 4325-4342.	1.7	14
18	Wrinkled and wrinkle-free membranes. <i>International Journal of Engineering Science</i> , 2021, 167, 103526.	2.7	13

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19	A novel mechanical metamaterial with simultaneous stretching- and compression-expanding property. <i>Materials and Design</i> , 2021, 208, 109930.	3.3	28
20	A Preciselyâ€Controlled Multichannel Phononic Crystal Resonant Cavity. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100250.	1.3	6
21	Compression-driven collapse of nanotubes. <i>Nanotechnology</i> , 2020, 31, 025603.	1.3	1
22	Layout optimization of continuum structures embedded with movable components and holes simultaneously. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 555-573.	1.7	14
23	Chamber layout design optimization of soft pneumatic robots. <i>Smart Materials and Structures</i> , 2020, 29, 025017.	1.8	12
24	Isotropic â€Quasiâ€Fluidâ€Metamaterials Designed by Topology Optimization. <i>Advanced Theory and Simulations</i> , 2020, 3, 1900182.	1.3	16
25	Topology optimization method for the design of bioinspired self-similar hierarchical microstructures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 372, 113399.	3.4	22
26	Mechanics of folding of nanorings. <i>Mechanics of Materials</i> , 2020, 148, 103493.	1.7	1
27	Topology optimization using material-field series expansion and Kriging-based algorithm: An effective non-gradient method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 364, 112966.	3.4	63
28	Two-scale concurrent topology optimization of lattice structures with connectable microstructures. <i>Additive Manufacturing</i> , 2020, 36, 101427.	1.7	34
29	Multi-material structural topology optimization considering material interfacial stress constraints. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 363, 112887.	3.4	29
30	Non-uniform global-buckling and local-folding in thin film of stretchable electronics. <i>International Journal of Mechanical Sciences</i> , 2020, 175, 105537.	3.6	13
31	A method using successive iteration of analysis and design for large-scale topology optimization considering eigenfrequencies. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 362, 112847.	3.4	30
32	Uncertainty of membrane wrinkling behaviors considering initial thickness imperfections. <i>International Journal of Solids and Structures</i> , 2020, 191-192, 264-277.	1.3	19
33	A general assessment index for non-probabilistic reliability of structures with bounded field and parametric uncertainties. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 366, 113046.	3.4	16
34	Velocity field levelâ€set method for topological shape optimization using freely distributed design variables. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 120, 1411-1427.	1.5	10
35	Bi-material Topology Optimization Using Analysis Mesh-Independent Point-Wise Density Interpolation. <i>Acta Mechanica Solida Sinica</i> , 2019, 32, 698-712.	1.0	0
36	Topological design of piezoelectric actuator layer for linear quadratic regulator control of thin-shell structures under transient excitation. <i>Smart Materials and Structures</i> , 2019, 28, 095029.	1.8	11

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37	Topology optimization for concurrent design of layer-wise graded lattice materials and structures. <i>International Journal of Engineering Science</i> , 2019, 138, 26-49.	2.7	55
38	Interfacial cylindrite of poly(lactic acid) induced by pulling a single glass fiber. <i>European Polymer Journal</i> , 2019, 114, 127-133.	2.6	4
39	Concurrent two-scale topological design of multiple unit cells and structure using combined velocity field level set and density model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 347, 340-364.	3.4	48
40	Robust topology optimization of vibrating structures considering random diffuse regions via a phase-field method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 344, 766-797.	3.4	21
41	Adhesion of Partially and Fully Collapsed Nanotubes. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, .	1.1	6
42	Non-probabilistic uncertainty quantification and response analysis of structures with a bounded field model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 347, 663-678.	3.4	51
43	A phase-field based robust topology optimization method for phononic crystals design considering uncertain diffuse regions. <i>Computational Materials Science</i> , 2019, 160, 159-172.	1.4	26
44	A theoretical analysis on self-collapsing of nanotubes. <i>International Journal of Solids and Structures</i> , 2019, 160, 51-58.	1.3	9
45	Robust topology optimization of multi-material structures considering uncertain graded interface. <i>Composite Structures</i> , 2019, 208, 395-406.	3.1	34
46	Reliability-based topology optimization against geometric imperfections with random threshold model. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 115, 99-116.	1.5	31
47	Bi-material microstructural design of chiral auxetic metamaterials using topology optimization. <i>Composite Structures</i> , 2018, 195, 232-248.	3.1	91
48	Layout design of piezoelectric patches in structural linear quadratic regulator optimal control using topology optimization. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 2277-2294.	1.4	15
49	Mechanics of the scrolling and folding of graphene. <i>Nanotechnology</i> , 2018, 29, 245604.	1.3	11
50	Topology optimization of piezoelectric smart structures for minimum energy consumption under active control. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 185-199.	1.7	27
51	Achieving directional propagation of elastic waves via topology optimization. <i>Ultrasonics</i> , 2018, 82, 1-10.	2.1	35
52	A level set method for shape and topology optimization of coated structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 329, 553-574.	3.4	64
53	Mechanics of the folding of a nanotube. <i>Nanotechnology</i> , 2018, 29, 475602.	1.3	4
54	Global shape optimization of fixtures to suppress wrinkles in large-displacement membrane structures. <i>International Journal of Solids and Structures</i> , 2018, 144-145, 301-312.	1.3	24

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55	Level set-based topology optimization with overhang constraint: Towards support-free additive manufacturing. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 339, 591-614.	3.4	90
56	A velocity field level set method for shape and topology optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 115, 1315-1336.	1.5	49
57	Core melt temperature effects on cylindrical structures of co-injection molded polypropylene parts. <i>International Communications in Heat and Mass Transfer</i> , 2018, 97, 56-63.	2.9	4
58	Integrated topology optimization of multi-component structures considering connecting interface behavior. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 341, 851-887.	3.4	32
59	Robust topology optimization of phononic crystals with random field uncertainty. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 115, 1154-1173.	1.5	50
60	Current and future trends in topology optimization for additive manufacturing. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 2457-2483.	1.7	533
61	Structural shape and topology optimization of cast parts using level set method. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 111, 1252-1273.	1.5	50
62	A multi-material topology optimization approach for wrinkle-free design of cable-suspended membrane structures. <i>Computational Mechanics</i> , 2017, 59, 967-980.	2.2	21
63	Wrinkle-free design of thin membrane structures using stress-based topology optimization. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 102, 277-293.	2.3	61
64	A Prenecking Strategy Makes Stretched Membranes With Clamped Ends Wrinkle-Free. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, .	1.1	7
65	Topology optimization considering fracture mechanics behaviors at specified locations. <i>Structural and Multidisciplinary Optimization</i> , 2017, 55, 1847-1864.	1.7	43
66	Wrinkling and wrinkling-suppression in graphene membranes with frozen zone. <i>Thin Solid Films</i> , 2017, 638, 345-353.	0.8	11
67	Optimal topology design for stress-isolation of soft hyperelastic composite structures under imposed boundary displacements. <i>Structural and Multidisciplinary Optimization</i> , 2017, 55, 1747-1758.	1.7	4
68	Robust shape and topology optimization considering geometric uncertainties with stochastic level set perturbation. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 110, 31-56.	1.5	59
69	Multi-material topology optimization considering interface behavior via XFEM and level set method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 308, 113-133.	3.4	124
70	Structural topology optimization with minimum distance control of multiphase embedded components by level set method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 306, 299-318.	3.4	38
71	Robust topology optimization for dynamic compliance minimization under uncertain harmonic excitations with inhomogeneous eigenvalue analysis. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 1469-1484.	1.7	30
72	Construction and application of an ellipsoidal convex model using a semi-definite programming formulation from measured data. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 300, 461-489.	3.4	63

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73	Topology optimization of hyperelastic structures with frictionless contact supports. International Journal of Solids and Structures, 2016, 81, 373-382.	1.3	33
74	Vibration suppression using integrated topology optimization of host structures and damping layers. JVC/Journal of Vibration and Control, 2016, 22, 60-76.	1.5	20
75	Robust topology optimization for dynamic compliance minimization under uncertain harmonic excitations with inhomogeneous eigenvalue analysis. , 2016, 54, 1469.		1
76	Hydrogen adsorption and desorption with 3D silicon nanotube-network and film-network structures: Monte Carlo simulations. Journal of Applied Physics, 2015, 118, .	1.1	7
77	Topology optimization of geometrically nonlinear structures based on an additive hyperelasticity technique. Computer Methods in Applied Mechanics and Engineering, 2015, 286, 422-441.	3.4	87
78	Topology optimization of magnetorheological fluid layers in sandwich plates for semi-active vibration control. Smart Materials and Structures, 2015, 24, 085024.	1.8	14
79	A multi-material level set-based topology and shape optimization method. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 1570-1586.	3.4	208
80	A COMPUTATIONAL TOOL FOR BAYESIAN NETWORKS ENHANCED WITH RELIABILITY METHODS. , 2015, , .		0
81	Topological design of compliant smart structures with embedded movable actuators. Smart Materials and Structures, 2014, 23, 045024.	1.8	59
82	Topological shape optimization of microstructural metamaterials using a level set method. Computational Materials Science, 2014, 87, 178-186.	1.4	151
83	Folding of multi-layer graphene sheets induced by van der Waals interaction. Acta Mechanica Sinica/Lixue Xuebao, 2014, 30, 410-417.	1.5	19
84	Dynamic topology optimization of piezoelectric structures with active control for reducing transient response. Computer Methods in Applied Mechanics and Engineering, 2014, 281, 200-219.	3.4	91
85	Topology optimization of electrode coverage of piezoelectric thin-walled structures with CQVF control for minimizing sound radiation. Structural and Multidisciplinary Optimization, 2014, 50, 799-814.	1.7	34
86	A topology optimization method for geometrically nonlinear structures with meshless analysis and independent density field interpolation. Computational Mechanics, 2014, 54, 629-644.	2.2	47
87	Topology optimization of piezoelectric layers in plates with active vibration control. Journal of Intelligent Material Systems and Structures, 2014, 25, 697-712.	1.4	41
88	Photonic approach to broadband instantaneous microwave frequency measurement with improved accuracy. Optics Communications, 2014, 328, 87-90.	1.0	16
89	Adaptive topology optimization with independent error control for separated displacement and density fields. Computers and Structures, 2014, 135, 50-61.	2.4	55
90	On robust design optimization of truss structures with bounded uncertainties. Structural and Multidisciplinary Optimization, 2013, 47, 699-714.	1.7	43

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91	An adaptive method for high-resolution topology design. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2013, 29, 840-850.	1.5	13
92	Mechanics of self-folding of single-layer graphene. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 055308.	1.3	68
93	Layout design of reinforced concrete structures using two-material topology optimization with Druckerâ€™Prager yield constraints. <i>Structural and Multidisciplinary Optimization</i> , 2013, 47, 95-110.	1.7	43
94	An adaptive refinement approach for topology optimization based on separated density field description. <i>Computers and Structures</i> , 2013, 117, 10-22.	2.4	71
95	A molecular dynamics study on tensile strength and failure modes of carbon nanotube junctions. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 495301.	1.3	13
96	Topology optimization of damping layers for minimizing sound radiation of shell structures. <i>Journal of Sound and Vibration</i> , 2013, 332, 2500-2519.	2.1	64
97	Integrated topology optimization with embedded movable holes based on combined description by material density and level sets. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 255, 1-13.	3.4	71
98	Multifunctional Epidermal Electronics Printed Directly Onto the Skin. <i>Advanced Materials</i> , 2013, 25, 2773-2778.	11.1	714
99	An enhanced aggregation method for topology optimization with local stress constraints. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 254, 31-41.	3.4	116
100	Multi-Functional Electronics: Multifunctional Epidermal Electronics Printed Directly Onto the Skin (<i>Adv. Mater.</i> 20/2013). <i>Advanced Materials</i> , 2013, 25, 2772-2772.	11.1	16
101	Molecular dynamics study on buckling of single-wall carbon nanotube-based intramolecular junctions and influence factors. <i>Computational Materials Science</i> , 2013, 67, 390-396.	1.4	24
102	Design of two-dimensional horseshoe layout for stretchable electronic systems. <i>Journal of Materials Science</i> , 2013, 48, 8443-8448.	1.7	17
103	A Viscoelastic Model for the Rate Effect in Transfer Printing. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, .	1.1	34
104	Mechanics of Epidermal Electronics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012, 79, .	1.1	161
105	Sensitivity analysis of viscoplastic deformation process with application to metal preform design optimization. <i>Engineering Optimization</i> , 2012, 44, 1511-1523.	1.5	3
106	Topology Optimization for Static Shape Control of Piezoelectric Plates With Penalization on Intermediate Actuation Voltage. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2012, 134, .	1.7	22
107	An iterative algorithm for analysis of coupled structural-acoustic systems subject to random excitations. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 458-467.	1.5	13
108	Thin, Flexible Sensors and Actuators as â€œInstrumentedâ€™™ Surgical Sutures for Targeted Wound Monitoring and Therapy. <i>Small</i> , 2012, 8, 3263-3268.	5.2	141

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109	Maximal Stiffness Design of Two-Material Structures by Topology Optimization with Nonprobabilistic Reliability. <i>AIAA Journal</i> , 2012, 50, 1993-2003.	1.5	25
110	A numerical study on nonlinear vibration of an inclined cable coupled with the deck in cable-stayed bridges. <i>JVC/Journal of Vibration and Control</i> , 2012, 18, 404-416.	1.5	16
111	A nodal variable method of structural topology optimization based on Shepard interpolant. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 90, 329-342.	1.5	55
112	On topology optimization of damping layer in shell structures under harmonic excitations. <i>Structural and Multidisciplinary Optimization</i> , 2012, 46, 51-67.	1.7	125
113	Topology optimization of continuum structures with Drucker's Prager yield stress constraints. <i>Computers and Structures</i> , 2012, 90-91, 65-75.	2.4	107
114	Parametric study of bonded steel-concrete composite beams by using finite element analysis. <i>Engineering Structures</i> , 2012, 34, 40-51.	2.6	57
115	Structural topology optimization based on non-local Shepard interpolation of density field. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 3515-3525.	3.4	125
116	Reliability-based design optimization of adhesive bonded steel-concrete composite beams with probabilistic and non-probabilistic uncertainties. <i>Engineering Structures</i> , 2011, 33, 2110-2119.	2.6	74
117	Combined optimization of bi-material structural layout and voltage distribution for in-plane piezoelectric actuation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 1467-1478.	3.4	42
118	On non-probabilistic reliability-based design optimization of structures with uncertain-but-bounded parameters. <i>Structural Safety</i> , 2011, 33, 196-205.	2.8	122
119	An analytical model of strain isolation for stretchable and flexible electronics. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	45
120	Microscale, printed LEDs for unusual lighting and display systems. , 2011, , .		0
121	Topology design of slender piezoelectric actuators with repetitive component patterns. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 2161-2172.	1.4	4
122	Topology Optimization Design of Compliant Mechanisms under Uncertainties. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2011, 47, 1.	0.7	3
123	Reliability-based structural optimization with probability and convex set hybrid models. <i>Structural and Multidisciplinary Optimization</i> , 2010, 42, 89-102.	1.7	111
124	A strain-isolation design for stretchable electronics. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2010, 26, 881-888.	1.5	34
125	Mechanics analysis of two-dimensionally prestrained elastomeric thin film for stretchable electronics. <i>Acta Mechanica Solida Sinica</i> , 2010, 23, 592-599.	1.0	11
126	Waterproof AlInGaP optoelectronics on stretchable substrates with applications in biomedicine and Robotics. <i>Nature Materials</i> , 2010, 9, 929-937.	13.3	557

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127	Topology optimization of bending actuators with multilayer piezoelectric material. Smart Materials and Structures, 2010, 19, 075018.	1.8	30
128	Buckling behavior of carbon nanotube-based intramolecular junctions under compression: Molecular dynamics simulation and finite element analysis. Computational Materials Science, 2010, 50, 253-259.	1.4	47
129	Structural Optimization for Wall Frame Design of a Forging Manipulator. Lecture Notes in Computer Science, 2010, , 317-328.	1.0	0
130	Continuum topology optimization with non-probabilistic reliability constraints based on multi-ellipsoid convex model. Structural and Multidisciplinary Optimization, 2009, 39, 297-310.	1.7	197
131	Non-probabilistic reliability-based topology optimization of geometrically nonlinear structures using convex models. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3228-3238.	3.4	179
132	A level set method for structural shape and topology optimization using radial basis functions. Computers and Structures, 2009, 87, 425-434.	2.4	100
133	Structural reliability assessment based on probability and convex set mixed model. Computers and Structures, 2009, 87, 1408-1415.	2.4	158
134	Topology optimization of space vehicle structures considering attitude control effort. Finite Elements in Analysis and Design, 2009, 45, 431-438.	1.7	22
135	Topology optimization-based distribution design of actuation voltage in static shape control of plates. Computers and Structures, 2008, 86, 1885-1893.	2.4	55
136	Integrated Optimization of Material Layout and Control Voltage for Piezoelectric Laminated Plates. Journal of Intelligent Material Systems and Structures, 2008, 19, 889-904.	1.4	71
137	Perturbation-based stochastic FE analysis and robust design of inelastic deformation processes. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 2231-2251.	3.4	34
138	Robust design of non-linear structures using optimization methods. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 1779-1795.	3.4	56
139	Robust design of structures using optimization methods. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 2221-2237.	3.4	248
140	Buckling design optimization of complex built-up structures with shape and size variables. Structural and Multidisciplinary Optimization, 2000, 19, 183-191.	1.7	15
141	STRUCTURAL OPTIMIZATION FOR PRACTICAL ENGINEERING: SOFTWARE DEVELOPMENT AND APPLICATIONS * *Project supported by the Scientific Fund for National Outstanding Youth of China (19525206)., 1999, , 157-168.		0
142	New generation software of structural analysis and design optimization-JIFEX. Structural Engineering and Mechanics, 1999, 7, 589-599.	1.0	11
143	Dynamic sensitivity analysis and optimum design of aerospace structures. Structural Engineering and Mechanics, 1998, 6, 31-40.	1.0	8
144	Dynamic optimization of a turbine foundation. Structural Optimization, 1997, 13, 244-249.	0.7	7