

Ole Sigmund

List of Publications by Year in descending order

Source: [//exaly.com/author-pdf/7345675/publications.pdf](https://exaly.com/author-pdf/7345675/publications.pdf)

Version: 2024-02-01

365
papers

26,836
citations

12346

69
h-index

7270

154
g-index

384
all docs

384
docs citations

384
times ranked

17990
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibroacoustic topology optimization for sound transmission minimization through sandwich structures. <i>Journal of Sound and Vibration</i> , 2024, 568, 117959.	4.1	16
2	Topology optimization of self-contacting structures. <i>Computational Mechanics</i> , 2024, 73, 967-981.	4.0	4
3	Phasor noise for dehomogenisation in 2D multiscale topology optimisation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2024, 418, 116551.	6.7	1
4	Intersectional disparities in outpatient alcohol treatment completion by gender and race and ethnicity. <i>Alcohol: Clinical and Experimental Research</i> , 2024, 48, 389-399.	0.0	0
5	Analytical realization of complex thermal meta-devices. <i>Nature Communications</i> , 2024, 15, .	13.2	0
6	E016â€¦The evolution of neural response patterns in Huntingtonâ€™s disease as assessed by a daily life executive function task shows an inverted U shaped curve declining at the premanifest stage. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2024, , A58.1-A58.	6.0	0
7	Liver transplantation plus chemotherapy versus chemotherapy alone in patients with permanently unresectable colorectal liver metastases (TransMet): results from a multicentre, open-label, prospective, randomised controlled trial. <i>Lancet, The</i> , 2024, 404, 1107-1118.	12.1	0
8	Adding friction to Third Medium Contact: A crystal plasticity inspired approach. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2024, 432, 117412.	6.7	0
9	Nonâ€Hierarchical Architected Materials with Extreme Stiffness and Strength. <i>Advanced Functional Materials</i> , 2023, 33, .	16.5	6
10	Simple and efficient GPU accelerated topology optimisation: Codes and applications. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2023, 410, 116043.	6.7	12
11	Multi-material topology optimization for maximizing structural stability under thermo-mechanical loading. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2023, 407, 115938.	6.7	17
12	The influence of reaction temperature on the porosity of MOF-5 studied by nitrogen adsorption and positron annihilation lifetime spectroscopy. <i>JJAP conference proceedings</i> , 2023, 9, 011201-011201.	0.1	1
13	The Characteristics of Gas and Particulate Emissions from Smouldering Combustion in the Pinus pumila Forest of Huzhong National Nature Reserve of the Daxingâ€™an Mountains. <i>Forests</i> , 2023, 14, 364.	2.2	1
14	Apolipoprotein C3 induces inflammasome activation only in its delipidated form. <i>Nature Immunology</i> , 2023, 24, 408-411.	13.9	10
15	Topology optimization of multiscale structures considering local and global buckling response. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2023, 408, 115969.	6.7	20
16	Five-Year Follow-Up of a Child with Non-Syndromic Oligodontia from before the Primary Dentition Stage: A Case Report. <i>Children</i> , 2023, 10, 717.	1.5	5
17	Ecological and Geographical Organization and Structure of the Summer Bird Assemblages of Northern Eurasia. <i>Biology Bulletin Reviews</i> , 2023, 13, 189-204.	0.9	4
18	Topology optimization for structural mass reduction of direct drive electric machines. <i>Sustainable Energy Technologies and Assessments</i> , 2023, 57, 103254.	2.9	2

#	ARTICLE	IF	CITATIONS
19	Phonon-induced instabilities in correlated electron Hamiltonians. <i>Physical Review B</i> , 2023, 107, .	3.3	3
20	Atopic Dermatitis: Molecular Alterations between Lesional and Non-Lesional Skin Determined Noninvasively by In Vivo Confocal Raman Microspectroscopy. <i>International Journal of Molecular Sciences</i> , 2023, 24, 14636.	4.2	1
21	Density-Based Topology Optimization in Method of Moments: Q-factor Minimization. <i>IEEE Transactions on Antennas and Propagation</i> , 2023, , 1-1.	5.3	0
22	De-homogenization using convolutional neural networks. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 388, 114197.	6.7	12
23	Topology optimization of damage-resistant structures with a predefined load-bearing capacity. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 1114-1145.	2.9	5
24	Racial Discrimination and Resting-State Functional Connectivity of Salience Network Nodes in Trauma-Exposed Black Adults in the United States. <i>JAMA Network Open</i> , 2022, 5, e2144759.	6.0	22
25	Deletion and Overexpression of the <i>AnOTAbzip</i> Gene, a Positive Regulator of Ochratoxin A Biosynthesis in <i>Aspergillus niger</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 2169-2178.	5.3	6
26	Universal point-of-care detection of proteins based on proximity hybridization-mediated isothermal exponential amplification. <i>Analyst</i> , The, 2022, 147, 1709-1715.	3.5	4
27	Synthesis of Frame Field-Aligned Multi-Laminar Structures. <i>ACM Transactions on Graphics</i> , 2022, 41, 1-20.	7.9	10
28	Topology optimization guided by a geometrical pattern library. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, 1.	3.6	8
29	Digital synthesis of free-form multimaterial structures for realization of arbitrary programmed mechanical responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2120563119.	7.6	24
30	Dual Role of Strigolactone Receptor Signaling Partner in Inhibiting Substrate Hydrolysis. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2188-2195.	2.7	5
31	Topology Optimization of Graded Truss Lattices Based on On-the-Fly Homogenization. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2022, 89, .	2.3	14
32	Centrality determination in heavy-ion collisions with the LHCb detector. <i>Journal of Instrumentation</i> , 2022, 17, P05009.	1.3	4
33	Survey Paper tentang Analisis Sentimen. <i>KONSTELASI: Konvergensi Teknologi dan Sistem Informasi</i> , 2022, 2, .	0.1	0
34	Buckling and yield strength estimation of architected materials under arbitrary loads. <i>International Journal of Solids and Structures</i> , 2022, 254-255, 111842.	2.7	2
35	De-homogenization of optimal 2D topologies for multiple loading cases. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 399, 115426.	6.7	11
36	Experimental verification of a novel hierarchical lattice material with superior buckling strength. <i>APL Materials</i> , 2022, 10, .	4.8	6

#	ARTICLE	IF	CITATIONS
37	Structural topology optimization with predetermined breaking points. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 400, 115610.	6.7	4
38	On benchmarking and good scientific practise in topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, .	3.6	23
39	Nanometer-scale photon confinement in topology-optimized dielectric cavities. <i>Nature Communications</i> , 2022, 13, .	13.2	45
40	Topology optimization and 3D printing of large deformation compliant mechanisms for straining biological tissues. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 1351-1366.	3.6	20
41	Hot-wire arc additive manufacturing of aluminum alloy with reduced porosity and high deposition rate. <i>Materials and Design</i> , 2021, 199, 109370.	7.2	93
42	Ultra-coherent fundamental mode mechanical resonators designed using topology optimization. , 2021, , .		0
43	Inverse design in photonics by topology optimization: tutorial. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 496.	2.0	118
44	Modulation of immune cell reactivity with <i>cis</i> -binding Siglec agonists. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.6	45
45	“Serving the People Body and Soul” Centering Black Communities to Achieve Health Justice. <i>JAMA Health Forum</i> , 2021, 2, e201523.	2.4	2
46	Internal contact modeling for finite strain topology optimization. <i>Computational Mechanics</i> , 2021, 67, 1099-1114.	4.0	17
47	Topology optimization of multi-scale structures: a review. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 1455-1480.	3.6	266
48	Significance of PD-L1 expression in the cytological samples of non-small cell lung cancer patients treated with immune checkpoint inhibitors. <i>Journal of Cancer Research and Clinical Oncology</i> , 2021, 147, 3749-3755.	2.6	6
49	Multi-scale topology optimization for stiffness and de-homogenization using implicit geometry modeling. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 2919-2934.	3.6	23
50	On approaches for avoiding low-stiffness regions in variable thickness sheet and homogenization-based topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 39-52.	3.6	14
51	Compact 200 line MATLAB code for inverse design in photonics by topology optimization: tutorial: erratum. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 1822.	2.0	2
52	Design of composite structures with programmable elastic responses under finite deformations. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 151, 104356.	4.9	23
53	3D architected isotropic materials with tunable stiffness and buckling strength. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 152, 104415.	4.9	20
54	Complementary lecture notes for teaching the 99/88-line topology optimization codes. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 3227-3231.	3.6	8

#	ARTICLE	IF	CITATIONS
55	Local versus global stress constraint strategies in topology optimization: A comparative study. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 6003-6036.	2.9	41
56	Plate microstructures with extreme stiffness for arbitrary multi-loadings. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 381, 113778.	6.7	9
57	Topology Optimization of Large-Scale 3D Morphing Wing Structures. <i>Actuators</i> , 2021, 10, 217.	2.4	13
58	Ultra-coherent nanomechanical resonators based on inverse design. <i>Nature Communications</i> , 2021, 12, 5766.	13.2	39
59	Neuromyelitis optica spectrum disorders: A nationwide Portuguese clinical epidemiological study. <i>Multiple Sclerosis and Related Disorders</i> , 2021, 56, 103258.	2.1	10
60	Reduced-order methods for dynamic problems in topology optimization: A comparative study. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 387, 114149.	6.7	45
61	Self-supporting structure design with feature-driven optimization approach for additive manufacturing. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 386, 114110.	6.7	21
62	Three-dimensional manufacturing tolerant topology optimization with hundreds of millions of local stress constraints. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 548-578.	2.9	47
63	A comprehensive review of educational articles on structural and multidisciplinary optimization. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 2827-2880.	3.6	67
64	Experimental Realization of Topology-Optimized InP Photonic Cavities with Extreme Dielectric Confinement. , 2021, , .		1
65	Improving the efficiency of upconversion by light concentration using nanoparticle design. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 073001.	2.9	9
66	Nonlinear compressive stability of hyperelastic 2D lattices at finite volume fractions. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 137, 103851.	4.9	19
67	Quasiperiodic mechanical metamaterials with extreme isotropic stiffness. <i>Extreme Mechanics Letters</i> , 2020, 34, 100596.	4.2	57
68	A "poor man's" approach for high-resolution three-dimensional topology design for natural convection problems. <i>Advances in Engineering Software</i> , 2020, 140, 102736.	3.8	38
69	Efficient hybrid topology and shape optimization combining implicit and explicit design representations. <i>Structural and Multidisciplinary Optimization</i> , 2020, 62, 1061-1069.	3.6	12
70	The causative agent of downy mildew (<i>Peronospora brassicae</i> Gaeum. <i>f. brassicae</i> (Gaeum.) on winter false flax (<i>Camelina sativa</i> (L.) Crantz.): the search for a source of disease resistance in the conditions of the Krasnodar region. <i>BIO Web of Conferences</i> , 2020, 21, 00031.	0.2	3
71	Singularity aware de-homogenization for high-resolution topology optimized structures. <i>Structural and Multidisciplinary Optimization</i> , 2020, 62, 2279-2295.	3.6	26
72	Aerodynamic Shape Optimization of Aircraft Wings Using Panel Methods. <i>AIAA Journal</i> , 2020, 58, 3765-3776.	2.6	15

#	ARTICLE	IF	CITATIONS
73	A Custom Genotyping Array Reveals Population-Level Heterogeneity for the Genetic Risks of Prostate Cancer and Other Cancers in Africa. <i>Cancer Research</i> , 2020, 80, 2956-2966.	0.9	25
74	Inverse homogenization using isogeometric shape optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 368, 113170.	6.7	11
75	Closing the gap towards super-long suspension bridges using computational morphogenesis. <i>Nature Communications</i> , 2020, 11, 2735.	13.2	52
76	In Vivo and In Vitro Models of Diabetes: A Focus on Pregnancy. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1307, 553-576.	0.0	12
77	Topology optimization on two-dimensional manifolds. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 364, 112937.	6.7	10
78	EML webinar overview: Topology Optimization " Status and Perspectives. <i>Extreme Mechanics Letters</i> , 2020, 39, 100855.	4.2	17
79	Assessment of supervised machine learning methods for fluid flows. <i>Theoretical and Computational Fluid Dynamics</i> , 2020, 34, 497-519.	2.1	145
80	Motion Characteristic Recognition of Transmission Lines Based on Inertial Measurement. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 8860-8867.	8.2	1
81	Special issue for the 13th world congress on structural and multidisciplinary optimization"editorial note. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 2225-2226.	3.6	2
82	Inverse design of nanoparticles for enhanced Raman scattering. <i>Optics Express</i> , 2020, 28, 4444.	3.4	29
83	Topology optimization of microchannel heat sinks using a two-layer model. <i>International Journal of Heat and Mass Transfer</i> , 2019, 143, 118462.	4.9	66
84	An In Vivo (Gallus gallus) Feeding Trial Demonstrating the Enhanced Iron Bioavailability Properties of the Fast Cooking Manteca Yellow Bean (<i>Phaseolus vulgaris</i> L.). <i>Nutrients</i> , 2019, 11, 1768.	4.2	28
85	Topology optimization and experimental verification of compact E-plane waveguide filters. <i>Microwave and Optical Technology Letters</i> , 2019, 61, 1208-1215.	1.5	4
86	Sizing guidelines for grid-connected decentralised energy storage systems: single house application. <i>Journal of Engineering</i> , 2019, 2019, 3802-3806.	1.1	4
87	Age Mosaicism across Multiple Scales in Adult Tissues. <i>Cell Metabolism</i> , 2019, 30, 343-351.e3.	15.8	103
88	Mixed-Order Symmetry-Breaking Quantum Phase Transition Far from Equilibrium. <i>Physical Review Letters</i> , 2019, 122, 235701.	8.0	7
89	Second-Order Topological Superconductors with Mixed Pairing. <i>Physical Review Letters</i> , 2019, 122, 236401.	8.0	85
90	Designing photonic topological insulators with quantum-spin-Hall edge states using topology optimization. <i>Nanophotonics</i> , 2019, 8, 1363-1369.	6.3	52

#	ARTICLE	IF	CITATIONS
91	Simple optimal lattice structures for arbitrary loadings. <i>Extreme Mechanics Letters</i> , 2019, 29, 100447.	4.2	26
92	Simple single-scale microstructures based on optimal rank-3 laminates. <i>Structural and Multidisciplinary Optimization</i> , 2019, 59, 1021-1031.	3.6	23
93	A meshfree approach for solving 2D variable-order fractional nonlinear diffusion-wave equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 350, 154-168.	6.7	44
94	Reconstruction of the urethra with an anterior vaginal mucosal flap in female urethral stricture. <i>International Urogynecology Journal</i> , 2019, 30, 2055-2060.	1.4	12
95	Design of segmented thermoelectric Peltier coolers by topology optimization. <i>Applied Energy</i> , 2019, 239, 1003-1013.	10.3	37
96	A "poor man's" approach to topology optimization of natural convection problems. <i>Structural and Multidisciplinary Optimization</i> , 2019, 59, 1105-1124.	3.6	48
97	Systematic Design of Photonic Crystal Cavities with Ultra-Low Modal Volume Considering Different Fabrication Resolutions. , 2019, , .		0
98	FAST A+: A Cost-Effective Plan for Expanding FAST. , 2019, , .		3
99	Antimicrobial consumption and impact of antimicrobial stewardship programmes in long-term care facilities. <i>Clinical Microbiology and Infection</i> , 2019, 25, 562-569.	6.5	45
100	Acoustic and photonic topological insulators by topology optimization. , 2019, , .		2
101	Transnational Environmental Activism in North America: Wielding Soft Power through Knowledge Sharing? 1. , 2019, , 115-135.		0
102	On the non-optimality of tree structures for heat conduction. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 660-680.	4.9	82
103	Optimal truss and frame design from projected homogenization-based topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 1461-1474.	3.6	36
104	Eigenvalue topology optimization via efficient multilevel solution of the frequency response. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 115, 872-892.	2.9	39
105	Analysis of Histone Modifications by Mass Spectrometry. <i>Current Protocols in Protein Science</i> , 2018, 92, e54.	2.1	18
106	Design of passive coolers for light-emitting diode lamps using topology optimisation. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 138-149.	4.9	86
107	Topology optimization of a pseudo 3D thermofluid heat sink model. <i>International Journal of Heat and Mass Transfer</i> , 2018, 121, 1073-1088.	4.9	115
108	Frequency response as a surrogate eigenvalue problem in topology optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 113, 1214-1229.	2.9	32

#	ARTICLE	IF	CITATIONS
109	Homogenization-based topology optimization for high-resolution manufacturable microstructures. International Journal for Numerical Methods in Engineering, 2018, 113, 1148-1163.	2.9	241
110	A "poor man's" approach to topology optimization of cooling channels based on a Darcy flow model. International Journal of Heat and Mass Transfer, 2018, 116, 1108-1123.	4.9	95
111	The Effects of Intestinal Nematode L4 Stage on Mouse Experimental Autoimmune Encephalomyelitis. Archivum Immunologiae Et Therapiae Experimentalis, 2018, 66, 231-243.	2.5	14
112	Optimal design of robust piezoelectric microgrippers undergoing large displacements. Structural and Multidisciplinary Optimization, 2018, 57, 71-82.	3.6	38
113	Topology optimization of turbulent flows. Computer Methods in Applied Mechanics and Engineering, 2018, 331, 363-393.	6.7	151
114	Which Computational Methods Are Good for Analyzing Large Photonic Crystal Membrane Cavities?. , 2018, , .		0
115	Control of the third-harmonic generation efficiency upon interaction of few-cycle waves in nonlinear media. Quantum Electronics, 2018, 48, 119-123.	1.0	3
116	Maximizing the quality factor to mode volume ratio for ultra-small photonic crystal cavities. Applied Physics Letters, 2018, 113, .	3.2	73
117	Topology Optimization of Segmented Thermoelectric Generators. Journal of Electronic Materials, 2018, 47, 6959-6971.	2.2	4
118	Explicit and implicit springback simulation in sheet metal forming using fully coupled ductile damage and distortional hardening model. AIP Conference Proceedings, 2018, , .	1.0	0
119	Improving the efficiency of solar cells by upconverting sunlight using field enhancement from optimized nano structures. Optical Materials, 2018, 83, 279-289.	3.7	23
120	Magnetically responsive polymers for drug delivery applications. , 2018, , 143-168.		5
121	Investment casting and experimental testing of heat sinks designed by topology optimization. International Journal of Heat and Mass Transfer, 2018, 127, 396-412.	4.9	66
122	Shape morphing and topology optimization of fluid channels by explicit boundary tracking. International Journal for Numerical Methods in Fluids, 2018, 88, 296-313.	1.7	28
123	Homogenization-based topology optimization for high-resolution manufacturable microstructures. International Journal for Numerical Methods in Engineering, 2018, 113, 1148.	2.9	1
124	Benchmarking state-of-the-art numerical simulation techniques for analyzing large photonic crystal membrane line defect cavities. , 2018, , .		0
125	Reproducing the hierarchy of disorder for Morpho-inspired, broad-angle color reflection. Scientific Reports, 2017, 7, 46023.	3.4	41
126	Optimal design of a microgripper-type actuator based on AlN/Si heterogeneous bimorph. Proceedings of SPIE, 2017, , .	1.0	1

#	ARTICLE	IF	CITATIONS
127	On fully stressed design and p-norm measures in structural optimization. Structural and Multidisciplinary Optimization, 2017, 56, 731-736.	3.6	31
128	A risk management system for meteorological disasters of solar greenhouse vegetables. Precision Agriculture, 2017, 18, 997-1010.	5.9	20
129	A short numerical study on the optimization methods influence on topology optimization. Structural and Multidisciplinary Optimization, 2017, 56, 1603-1612.	3.6	8
130	TORC1 organized in inhibited domains (TOROIDS) regulate TORC1 activity. Nature, 2017, 550, 265-269.	36.2	101
131	Next-Generation Sequencing in the Clinical Setting Clarifies Patient Characteristics and Potential Actionability. Cancer Research, 2017, 77, 6313-6320.	0.9	23
132	Topology optimized gold nanostrips for enhanced near-infrared photon upconversion. Applied Physics Letters, 2017, 111, .	3.2	13
133	The Lymphatic Vasculature: Its Role in Adipose Metabolism and Obesity. Cell Metabolism, 2017, 26, 598-609.	15.8	131
134	Comparison of five computational methods for computing Q factors in photonic crystal membrane cavities. , 2017, , .		0
135	Topology optimization for reduction of thermo-elastic dissipation in MEMS resonators. , 2017, , .		8
136	Higher-order multi-resolution topology optimization using the finite cell method. International Journal for Numerical Methods in Engineering, 2017, 110, 903-920.	2.9	64
137	Configuration of the sugar head of glycolipids in thylakoid membranes. Genes and Genetic Systems, 2017, 92, 235-242.	0.7	13
138	Drivers, standards and platforms for the IoT: Towards a digital VICINITY. , 2017, , .		10
139	Benchmarking five computational methods for analyzing large photonic crystal membrane cavities. , 2017, , .		1
140	Optimization of photonic crystal cavities. , 2017, , .		3
141	Comparison of five numerical methods for computing quality factors and resonance wavelengths in photonic crystal membrane cavities. , 2017, , .		0
142	Theoretical model of adhesively bonded single lap joints with functionally graded adherends. Engineering Structures, 2016, 124, 316-332.	5.4	44
143	Experimental validation of systematically designed acoustic hyperbolic meta material slab exhibiting negative refraction. Applied Physics Letters, 2016, 109, .	3.2	30
144	A design approach for integrating thermoelectric devices using topology optimization. Applied Energy, 2016, 176, 49-64.	10.3	62

#	ARTICLE	IF	CITATIONS
145	Inverse design engineering of all-silicon polarization beam splitters. Proceedings of SPIE, 2016, , .	1.0	12
146	Industrial application of topology optimization for combined conductive and convective heat transfer problems. Structural and Multidisciplinary Optimization, 2016, 54, 1045-1060.	3.6	84
147	Membrane Anchors of the Structural Flavivirus Proteins and Their Role in Virus Assembly. Journal of Virology, 2016, 90, 6365-6378.	3.5	45
148	Exploiting Additive Manufacturing Infill in Topology Optimization for Improved Buckling Load. Engineering, 2016, 2, 250-257.	7.3	187
149	Ornithine transcarbamylase deficiency that developed at the age of 19 years with acute brain edema. Acute Medicine & Surgery, 2016, 3, 419-423.	1.3	2
150	Topology optimized mode multiplexing in silicon-on-insulator photonic wire waveguides. Optics Express, 2016, 24, 16866.	3.4	191
151	Topology optimized design of a transverse electric higher order mode converter. , 2016, , .		1
152	Large scale three-dimensional topology optimisation of heat sinks cooled by natural convection. International Journal of Heat and Mass Transfer, 2016, 100, 876-891.	4.9	225
153	Topology optimization of two-dimensional elastic wave barriers. Journal of Sound and Vibration, 2016, 376, 95-111.	4.1	33
154	Topology optimization of unsteady flow problems using the lattice Boltzmann method. Journal of Computational Physics, 2016, 307, 291-307.	3.9	68
155	On nanostructured silicon success. Nature Photonics, 2016, 10, 142-143.	23.1	8
156	Topology optimization of piezo modal transducers with null-polarity phases. Structural and Multidisciplinary Optimization, 2016, 53, 193-203.	3.6	16
157	On the (non-)optimality of Michell structures. Structural and Multidisciplinary Optimization, 2016, 54, 361-373.	3.6	127
158	Large scale three-dimensional topology optimisation of heat sinks cooled by natural convection. International Journal of Heat and Mass Transfer, 2016, 100, 876-876.	4.9	1
159	Topology-optimized mode converter in a silicon-on-insulator photonic wire waveguide. , 2016, , .		3
160	Experimental validation of a topology optimized acoustic cavity. Journal of the Acoustical Society of America, 2015, 138, 3470-3474.	1.2	14
161	Topology-optimized silicon photonic wire mode (de)multiplexer. Proceedings of SPIE, 2015, , .	1.0	1
162	Minimum length scale in topology optimization by geometric constraints. Computer Methods in Applied Mechanics and Engineering, 2015, 293, 266-282.	6.7	296

#	ARTICLE	IF	CITATIONS
163	Topology optimized design for silicon-on-insulator mode converter. , 2015, , .		1
164	Stress-constrained topology optimization for compliant mechanism design. Structural and Multidisciplinary Optimization, 2015, 52, 929-943.	3.6	102
165	Creating geometrically robust designs for highly sensitive problems using topology optimization. Structural and Multidisciplinary Optimization, 2015, 52, 737-754.	3.6	63
166	Designing visual appearance using a structured surface. Optica, 2015, 2, 239.	9.3	8
167	Two-particle Bose-Einstein correlations in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV measured with the ATLAS detector. European Physical Journal C, 2015, 75, 466.	4.0	43
168	The genetics of preterm birth: Progress and promise. Seminars in Perinatology, 2015, 39, 574-583.	2.5	41
169	3D interactive topology optimization on hand-held devices. Structural and Multidisciplinary Optimization, 2015, 51, 1385-1391.	3.6	12
170	Combined shape and topology optimization of 3D structures. Computers and Graphics, 2015, 46, 25-35.	2.7	78
171	Topology Optimized Architectures with Programmable Poisson's Ratio over Large Deformations. Advanced Materials, 2015, 27, 5523.	24.3	1
172	Flat-top Drop Filter based on a Single Topology Optimized Photonic Crystal Cavity. , 2015, , .		0
173	The Unbearable Non-Artist from "l'Homme machine" to Algorithmic Afterlife: Non-Cartesian Cybernetics and Aesthetic Embodiment in Erkki Kurenniemi. , 2015, , 113-124.		0
174	In-line extraction of an ultrastable frequency signal over an optical fiber link. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 678.	2.0	44
175	Topology optimized mode conversion in a photonic crystal waveguide fabricated in silicon-on-insulator material. Optics Express, 2014, 22, 8525.	3.4	126
176	Photoluminescent properties of Sr ₂ CeO ₄ : Eu ³⁺ and Sr ₂ CeO ₄ : Eu ²⁺ phosphors suitable for near ultraviolet excitation. Bulletin of Materials Science, 2014, 37, 1191-1195.	1.7	9
177	Psychological distress and professional help-seeking: a prospective national study. Scandinavian Journal of Caring Sciences, 2014, 28, 273-280.	2.2	4
178	Safety Analysis of 10 Clinical Trials and for 13 Years After First Approval of Ioflupane 123I Injection (DaTscan). Journal of Nuclear Medicine, 2014, 55, 1281-1287.	6.1	19
179	Design of structurally colored surfaces based on scalar diffraction theory. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 207.	2.0	13
180	Stress isolation through topology optimization. Structural and Multidisciplinary Optimization, 2014, 49, 761-769.	3.6	12

#	ARTICLE	IF	CITATIONS
181	Topology optimization with flexible void area. Structural and Multidisciplinary Optimization, 2014, 50, 927-943.	3.6	29
182	Interpolation scheme for fictitious domain techniques and topology optimization of finite strain elastic problems. Computer Methods in Applied Mechanics and Engineering, 2014, 276, 453-472.	6.7	178
183	Design of materials with prescribed nonlinear properties. Journal of the Mechanics and Physics of Solids, 2014, 69, 156-174.	4.9	151
184	Time domain topology optimization of 3D nanophotonic devices. Photonics and Nanostructures - Fundamentals and Applications, 2014, 12, 23-33.	2.1	44
185	Overexpression of AIOLOS inhibits cell proliferation and suppresses apoptosis in Nalm-6 cells. Oncology Reports, 2014, 31, 1183-1190.	2.6	10
186	Shape optimization of the stokes flow problem based on isogeometric analysis. Structural and Multidisciplinary Optimization, 2013, 48, 965-977.	3.6	31
187	Aircraft morphing wing design by using partial topology optimization. Structural and Multidisciplinary Optimization, 2013, 48, 1109-1128.	3.6	27
188	Robust topology optimization accounting for misplacement of material. Structural and Multidisciplinary Optimization, 2013, 47, 317-333.	3.6	62
189	A Review of the Scattering-Parameter Extraction Method with Clarification of Ambiguity Issues in Relation to Metamaterial Homogenization. IEEE Antennas and Propagation Magazine, 2013, 55, 91-106.	1.7	137
190	Imidazolium-containing, hydrophobicâ€“ionicâ€“hydrophilic ABC triblock copolymers: synthesis, ordered phase-separation, and supported membrane fabrication. Soft Matter, 2013, 9, 7923.	2.8	39
191	Systematic review and meta-analysis of published, randomized, controlled trials comparing suture anastomosis to stapled anastomosis for ileostomy closure. Techniques in Coloproctology, 2013, 17, 631-639.	2.0	18
192	Plasma-assisted Pt and Ptâ€“Pd nano-particles deposition on carbon carriers for application in PEM electrochemical cells. International Journal of Hydrogen Energy, 2013, 38, 8568-8574.	7.2	36
193	Topology optimized mode conversion in a photonic crystal waveguide. , 2013, , .		2
194	Optimization of cylindrical composite flywheel rotors for energy storage. Structural and Multidisciplinary Optimization, 2013, 47, 135-147.	3.6	7
195	A study of numerical ship underwater noise prediction. Ocean Engineering, 2013, 66, 113-120.	4.4	49
196	Hypertriglyceridemic waist: The point of divergence for prediction of CVD vs. mortality: Tehran Lipid and Glucose Study. International Journal of Cardiology, 2013, 165, 260-265.	1.6	15
197	Topology Optimization of Stressed Capacitive RF MEMS Switches. Journal of Microelectromechanical Systems, 2013, 22, 206-215.	2.7	36
198	Blockade of BDNF signaling turns chemicallyâ€“induced longâ€“term potentiation into longâ€“term depression. Hippocampus, 2013, 23, 879-889.	2.2	29

#	ARTICLE	IF	CITATIONS
199	Topological design of electromechanical actuators with robustness toward over- and under-etching. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 253, 237-251.	6.7	79
200	Topology Optimized Cloak for Airborne Sound. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2013, 135, .	1.7	39
201	Optimization of extraordinary optical absorption in plasmonic and dielectric structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 1154.	2.0	25
202	Role of interleukin-13 in fibrosis, particularly systemic sclerosis. <i>BioFactors</i> , 2013, 39, 593-596.	5.5	54
203	Topology optimized RF MEMS switches. , 2013, , .		0
204	Wavelength Selective 3D Topology Optimized Photonic Crystal Devices. , 2013, , .		5
205	Multiscale modeling and topology optimization of poroelastic actuators. <i>Smart Materials and Structures</i> , 2012, 21, 065005.	3.5	16
206	The structure modification and activity improvement of Pd-Co/C electrocatalysts by the addition of Au for the oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 2012, 2, 1654.	4.2	12
207	Trait impulsivity in suicide attempters: Preliminary study. <i>Psychiatry and Clinical Neurosciences</i> , 2012, 66, 529-532.	2.3	29
208	Sensitivity filtering from a continuum mechanics perspective. <i>Structural and Multidisciplinary Optimization</i> , 2012, 46, 471-475.	3.6	67
209	Experimental and theoretical studies on the electronic properties of vanadium-benzene sandwich cluster anions, $V_nBz_n+1^{-}$ ($n = 1-5$). <i>Journal of Chemical Physics</i> , 2012, 137, 224305.	3.1	21
210	Preeclampsia: multiple approaches for a multifactorial disease. <i>DMM Disease Models and Mechanisms</i> , 2012, 5, 9-18.	2.4	244
211	Analysis of the radiative lifetime of Pr^{3+} $d-f$ emission. <i>Journal of Applied Physics</i> , 2012, 112, .	2.3	53
212	High-performance slow light photonic crystal waveguides with topology optimized or circular-hole based material layouts. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012, 10, 378-388.	2.1	41
213	Direct Growth of Aligned Carbon Nanotubes on Quartz Fibers for Structural Epoxy Composites. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4927-4933.	3.8	11
214	INVERSE DESIGN OF DIELECTRIC MATERIALS BY TOPOLOGY OPTIMIZATION. <i>Progress in Electromagnetics Research</i> , 2012, 127, 93-120.	4.7	15
215	Plasmonic versus dielectric enhancement in thin-film solar cells. <i>Applied Physics Letters</i> , 2012, 100, .	3.2	25
216	Fundamental Limitations to Gain Enhancement in Periodic Media and Waveguides. <i>Physical Review Letters</i> , 2012, 108, 183903.	8.0	46

#	ARTICLE	IF	CITATIONS
217	Topology optimization with geometric uncertainties by perturbation techniques. International Journal for Numerical Methods in Engineering, 2012, 90, 1321-1336.	2.9	112
218	Design of robust and efficient photonic switches using topology optimization. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 153-165.	2.1	53
219	Gadolinium and nephrogenic systemic fibrosis: have the alarm bells been silenced?. Radiologia Medica, 2012, 117, 1-5.	7.9	3
220	Fundamental limitations to gain enhancement in slow-light photonic structures. , 2012, , .		0
221	Topology optimization of nano-photonic systems. , 2012, , .		0
222	Factorized parallel preconditioner for the saddle point problem. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 1398-1410.	2.2	6
223	Modelling of active semiconductor photonic crystal waveguides and robust designs based on topology optimization. , 2011, , .		0
224	Magnetoassisted pump-probe spectroscopy of cesium atoms. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 398.	2.0	4
225	Polarization-dependent spectral broadening of femtosecond pulses in silicon waveguides. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2383.	2.0	2
226	Robust topology optimization accounting for spatially varying manufacturing errors. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 3613-3627.	6.7	219
227	Review of the evidence on the closure of abdominal wall defects. Pediatric Surgery International, 2011, 27, 391-397.	1.3	33
228	A method to improve computational efficiency for CSSO and BLISS. Structural and Multidisciplinary Optimization, 2011, 44, 39-43.	3.6	6
229	On the usefulness of non-gradient approaches in topology optimization. Structural and Multidisciplinary Optimization, 2011, 43, 589-596.	3.6	330
230	Minimal compliance design for metal-ceramic composites with lamellar microstructures. Acta Materialia, 2011, 59, 4835-4846.	8.0	18
231	Topology optimization for nano-photonics. Laser and Photonics Reviews, 2011, 5, 308-321.	10.1	520
232	Filters in topology optimization based on Helmholtz-type differential equations. International Journal for Numerical Methods in Engineering, 2011, 86, 765-781.	2.9	647
233	Maximizing optomechanical interaction using topology optimization. International Journal for Numerical Methods in Engineering, 2011, 87, 822-843.	2.9	5
234	Isogeometric shape optimization of photonic crystals via Coons patches. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2237-2255.	6.7	65

#	ARTICLE	IF	CITATIONS
235	Government Leaders' Media Communication and Public Image Building in Emergency. , 2011, , .		0
236	Active to Sterile Neutrino Mixing Limits from Neutral-Current Interactions in MINOS. Physical Review Letters, 2011, 107, 011802.	8.0	109
237	Light Propagation in Disordered Two Dimensional Media and Random Lasing Modes. AIP Conference Proceedings, 2011, , .	1.0	0
238	Topology optimization for nano-photonics. Laser and Photonics Reviews, 2011, 5, 308.	10.1	1
239	Transcriptional fingerprint of human whole blood at the site of coronary occlusion in acute myocardial infarction. EuroIntervention, 2011, 7, 458-466.	3.4	14
240	Robust design of large-displacement compliant mechanisms. Mechanical Sciences, 2011, 2, 175-182.	1.0	65
241	Systematic and robust design of photonic crystal waveguides by topology optimization. AIP Conference Proceedings, 2010, , .	1.0	1
242	2-[5-(Benzo[d]thiazol-2-yl)thiophen-2-yl]benzo[d]thiazole. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o531-o531.	0.2	0
243	A topology optimization method for design of negative permeability metamaterials. Structural and Multidisciplinary Optimization, 2010, 41, 163-177.	3.6	161
244	Topology optimization of metallic devices for microwave applications. International Journal for Numerical Methods in Engineering, 2010, 83, 228-248.	2.9	30
245	On the unambiguous determination of effective optical properties of periodic metamaterials: a one-dimensional case study. Journal of the European Optical Society-Rapid Publications, 2010, 5, 10010.	1.9	12
246	Synthesis of Enantiopure Allyl Phenyl Sulfides. Synfacts, 2010, 2010, 1400-1400.	0.0	0
247	Extreme non-linear elasticity and transformation optics. Optics Express, 2010, 18, 19020.	3.4	0
248	Design of photonic bandgap fibers by topology optimization. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 51.	2.0	58
249	Topology optimization of grating couplers for the efficient excitation of surface plasmons. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1828.	2.0	87
250	Topology optimization for transient response of photonic crystal structures. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2040.	2.0	26
251	Topology-Optimized Slow-Light Couplers for Ring-Shaped Photonic Crystal Waveguide. , 2010, , .		4
252	Topology optimization in nano-photonics. AIP Conference Proceedings, 2009, , .	1.0	8

#	ARTICLE	IF	CITATIONS
253	Comment on "Functional Traits and Niche-Based Tree Community Assembly in an Amazonian Forest". Science, 2009, 324, 1015-1015.	20.9	18
254	An implicit finite element algorithm for the simulation of diffusion with phase changes in solids. International Journal for Numerical Methods in Engineering, 2009, 78, 1492-1512.	2.9	29
255	Optimization of piezoelectric bimorph actuators with active damping for static and dynamic loads. Structural and Multidisciplinary Optimization, 2009, 38, 171-183.	3.6	46
256	Improving the acousto-optical interaction in a Mach-Zehnder interferometer. Journal of Applied Physics, 2009, 105, 083529.	2.3	18
257	Systematic Design of Metamaterials by Topology Optimization. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2009, , 151-159.	0.0	26
258	Discussion on some convergence problems in buckling optimisation. Structural and Multidisciplinary Optimization, 2008, 35, 181-186.	3.6	36
259	Topology optimization for transient wave propagation problems in one dimension. Structural and Multidisciplinary Optimization, 2008, 36, 585-595.	3.6	81
260	Acoustic design by topology optimization. Journal of Sound and Vibration, 2008, 317, 557-575.	4.1	273
261	Topology optimized electrothermal polysilicon microgrippers. Microelectronic Engineering, 2008, 85, 1096-1099.	2.5	34
262	Monsoons as eddy-mediated regime transitions of the tropical overturning circulation. Nature Geoscience, 2008, 1, 515-519.	11.9	199
263	Rapid prototyping of nanotube-based devices using topology-optimized microgrippers. Nanotechnology, 2008, 19, 495503.	2.7	58
264	Inverse design of dispersion compensating optical fiber using topology optimization. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 88.	2.0	26
265	Three-dimensional topology optimized electrically-small conformal antenna. , 2008, , .		4
266	Geometric Properties of Optimal Photonic Crystals. Physical Review Letters, 2008, 100, 153904.	8.0	155
267	Topology Optimized Microgrippers for Nanomanipulation of Carbon Nanotubes. , 2008, , .		0
268	Focused Ion Beam (FIB) Modification of Topology Optimized Polysilicon Microgrippers. , 2008, , .		1
269	TOPOLOGY OPTIMIZATION. , 2007, , 161-194.		12
270	Topology-optimized and dispersion-tailored photonic crystal slow-light devices. Proceedings of SPIE, 2007, , .	1.0	2

#	ARTICLE	IF	CITATIONS
271	Imprinted silicon-based nanophotonics. <i>Optics Express</i> , 2007, 15, 1261.	3.4	43
272	Tailoring dispersion properties of photonic crystal waveguides by topology optimization. <i>Waves in Random and Complex Media</i> , 2007, 17, 477-489.	2.7	21
273	Topology optimization using a mixed formulation: An alternative way to solve pressure load problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 1874-1889.	6.7	162
274	Optical characterisation of photonic wire and photonic crystal waveguides fabricated using nanoimprint lithography. , 2006, , .		0
275	Photonic Crystals and Quantum Dots: Towards Integrated Optics for Advanced Ultra-Fast All-Optical Signal Processing. , 2006, , .		0
276	Bidentate Complexation Modeling of Heavy Metal Adsorption and Competition on Goethite. <i>Environmental Science & Technology</i> , 2006, 40, 2213-2218.	10.5	44
277	Photonic crystal and quantum dot technologies for all-optical switch and logic device. <i>New Journal of Physics</i> , 2006, 8, 208-208.	2.9	127
278	Rationale and design of ACTIVE: The atrial fibrillation clopidogrel trial with irbesartan for prevention of vascular events. <i>American Heart Journal</i> , 2006, 151, 1187-1193.	3.1	94
279	Nuclear Physics Programs at HIRFL-CSRm: A Status Report. <i>AIP Conference Proceedings</i> , 2006, , .	1.0	0
280	New Design for Wide/Flat Bandwidth in Photonic Crystal-Based SMZ All-Optical Device (PC-SMZ). , 2006, , .		0
281	Simulations of clonal species genotypic diversity “ trembling aspen (<i>Populus tremula</i> -des) as a case study. <i>Conservation Genetics</i> , 2006, 7, 415-426.	1.5	10
282	Topology optimization of heat conduction problems using the finite volume method. <i>Structural and Multidisciplinary Optimization</i> , 2006, 31, 251-259.	3.6	291
283	Maximizing band gaps in plate structures. <i>Structural and Multidisciplinary Optimization</i> , 2006, 32, 263-275.	3.6	144
284	Tissue-specific up-regulation of the proteasome subunit β 5i (LMP7) in Sjögren's syndrome. <i>Arthritis and Rheumatism</i> , 2006, 54, 1501-1508.	6.8	67
285	Topology optimised photonic crystal waveguide intersections with high-transmittance and low crosstalk. <i>Electronics Letters</i> , 2006, 42, 1031.	1.0	9
286	Topology Optimization for Photonic Crystal Waveguide with Wide and Flat Bandwidths in Ultra-Fast All-Optical Switch (PC-SMZ). , 2006, , .		1
287	Topology Optimization for Photonic Crystal Waveguide Intersection with Wide and Flat Bandwidths in Ultra-Fast All-Optical Switch (PC-SMZ). , 2006, , .		1
288	Topology optimized photonic wire splitters. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
289	Topology Optimization for Acoustic-Structure Interaction Problems. , 2006, , 355-364.		4
290	Topology Optimization of Wave-Propagation Problems. , 2006, , 387-390.		3
291	On topology Optimization with Manufacturing Constraints. , 2006, , 497-497.		5
292	A seasonally resolved bottom-water temperature record for the period AD 1866-2002 based on shells of <i>Arctica islandica</i> (Mollusca, North Sea). <i>International Journal of Climatology</i> , 2005, 25, 947-962.	3.5	72
293	Topology optimization of channel flow problems. <i>Structural and Multidisciplinary Optimization</i> , 2005, 30, 181-192.	3.6	360
294	Inverse design of phononic crystals by topology optimization. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005, 220, 895-905.	0.9	42
295	Topology optimised broadband photonic crystal Y-splitter. <i>Electronics Letters</i> , 2005, 41, 69.	1.0	59
296	Topology optimization of photonic crystal structures: a high-bandwidth low-loss T-junction waveguide. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 1191.	2.0	202
297	Broadband topology-optimized photonic crystal components for both TE and TM polarizations. <i>Optics Express</i> , 2005, 13, 8606.	3.4	31
298	Topology design and fabrication of an efficient double 90/spl deg/ photonic Crystal waveguide bend. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 1202-1204.	2.5	61
299	Systematic design of photonic crystal structures using topology optimization: Low-loss waveguide bends. <i>Applied Physics Letters</i> , 2004, 84, 2022-2024.	3.2	258
300	The ProActivetrial protocol “ a randomised controlled trial of the efficacy of a family-based, domiciliary intervention programme to increase physical activity among individuals at high risk of diabetes [ISRCTN61323766]. <i>BMC Public Health</i> , 2004, 4, 48.	3.0	61
301	Hinge-free topology optimization with embedded translation-invariant differentiable wavelet shrinkage. <i>Structural and Multidisciplinary Optimization</i> , 2004, 27, 139-150.	3.6	62
302	Planar articulated mechanism design by graph theoretical enumeration. <i>Structural and Multidisciplinary Optimization</i> , 2004, 27, 295-299.	3.6	44
303	Articulated mechanism design with a degree of freedom constraint. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 61, 1520-1545.	2.9	40
304	Toward the topology design of mechanisms that exhibit snap-through behavior. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 3973-4000.	6.7	54
305	Topology optimization and fabrication of photonic crystal structures. <i>Optics Express</i> , 2004, 12, 1996.	3.4	272
306	Broadband photonic crystal waveguide 60i;½ bend obtained utilizing topology optimization. <i>Optics Express</i> , 2004, 12, 5916.	3.4	136

#	ARTICLE	IF	CITATIONS
307	Extensions and applications. , 2004, , 71-158.		212
308	Counting the costs: Denmark's changing migration policies. International Journal of Urban and Regional Research, 2003, 27, 448-454.	2.2	27
309	Electromagnetic waves focused by a negative-index planar lens. Physical Review E, 2003, 67, 025602.	2.1	75
310	The Use of Sequential MR Image Sets for Determining Tibiofemoral Motion: Reliability of Coordinate Systems and Accuracy of Motion Tracking Algorithm. Journal of Biomechanical Engineering, 2003, 125, 246-253.	1.4	37
311	Phononic Band Gap Structures as Optimal Designs. , 2003, , 73-83.		5
312	Synthesis of Periodic Micro Mechanisms. Microsystems, 2003, , 193-221.	0.0	0
313	A FUNCTIONAL-ANALYTIC MODEL OF ANALOGY: A RELATIONAL FRAME ANALYSIS. Journal of the Experimental Analysis of Behavior, 2002, 78, 375-396.	1.3	51
314	Topology optimization of periodic microstructures with a penalization of highly localized buckling modes. International Journal for Numerical Methods in Engineering, 2002, 54, 809-834.	2.9	93
315	Numerical methods for the topology optimization of structures that exhibit snap-through. International Journal for Numerical Methods in Engineering, 2002, 55, 1215-1237.	2.9	121
316	A 99 line topology optimization code written in Matlab. Structural and Multidisciplinary Optimization, 2001, 21, 120-127.	3.6	1,872
317	A web-based topology optimization program. Structural and Multidisciplinary Optimization, 2001, 22, 179-187.	3.6	35
318	Freezing of homogenized sputum samples for intermittent storage. Clinical and Experimental Allergy, 2001, 31, 1328-1331.	2.8	14
319	Chemical and biological features of a high altitude lake in the southern Alps (Laghetto Inferiore.) Tj ETQq1 1 0.784314 rgBT /Overlock 0,9		
320	Design of multiphysics actuators using topology optimization " Part I: One-material structures. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 6577-6604.	6.7	457
321	Design of multiphysics actuators using topology optimization " Part II: Two-material structures. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 6605-6627.	6.7	375
322	Optimum Design of Microelectromechanical Systems. , 2001, , 505-520.		9
323	A new class of extremal composites. Journal of the Mechanics and Physics of Solids, 2000, 48, 397-428.	4.9	294
324	Multiphase composites with extremal bulk modulus. Journal of the Mechanics and Physics of Solids, 2000, 48, 461-498.	4.9	289

#	ARTICLE	IF	CITATIONS
325	Stiffness design of geometrically nonlinear structures using topology optimization. Structural and Multidisciplinary Optimization, 2000, 19, 93-104.	3.6	391
326	Some Recent Results on Topology Optimization of Periodic Composites. , 2000, , 3-17.		5
327	Systematic Design of Micro and Macro Systems. Solid Mechanics and Its Applications, 2000, , 373-382.	0.0	2
328	Material interpolation schemes in topology optimization. Archive of Applied Mechanics, 1999, 69, 635-654.	2.2	2,032
329	Design of smart composite materials using topology optimization. Smart Materials and Structures, 1999, 8, 365-379.	3.5	156
330	Compliant electro-thermal microactuators. , 1999, , .		22
331	On the Optimality of Bone Microstructure. , 1999, , 221-234.		17
332	Slope constrained topology optimization. International Journal for Numerical Methods in Engineering, 1998, 41, 1417-1434.	2.9	294
333	Numerical instabilities in topology optimization: A survey on procedures dealing with checkerboards, mesh-dependencies and local minima. Structural Optimization, 1998, 16, 68-75.	0.7	1,673
334	<title>Systematic design of microactuators using topology optimization</title>. , 1998, , .		11
335	New developments in handling stress constraints in optimal material distribution. , 1998, , .		175
336	On the design of 1â€™3 piezocomposites using topology optimization. Journal of Materials Research, 1998, 13, 1038-1048.	2.6	219
337	Topology optimization in multiphysics problems. , 1998, , .		18
338	On the Design of Hydrophones made as 1â€™3 Piezoelectrics. , 1998, , 147-158.		2
339	Design of Materials with Extreme Elastic or Thermoelastic Properties Using Topology Optimization. , 1998, , 233-244.		1
340	<title>Design of materials with extreme thermal expansion using a three-phase topology optimization method</title>. , 1997, , .		9
341	On the Design of Compliant Mechanisms Using Topology Optimization*. Mechanics Based Design of Structures and Machines, 1997, 25, 493-524.	0.6	966
342	Design of materials with extreme thermal expansion using a three-phase topology optimization method. Journal of the Mechanics and Physics of Solids, 1997, 45, 1037-1067.	4.9	842

#	ARTICLE	IF	CITATIONS
343	Design and manufacturing of material microstructures and micromechanisms. , 1996, , .		4
344	Analysis of the human serological immune response to a variable region of the attachment (G) protein of respiratory syncytial virus during primary infection. Journal of Medical Virology, 1996, 48, 253-261.	5.0	52
345	Composites with extremal thermal expansion coefficients. Applied Physics Letters, 1996, 69, 3203-3205.	3.2	324
346	Some Inverse Problems in Topology Design of Materials and Mechanisms. Solid Mechanics and Its Applications, 1996, , 277-284.	0.0	17
347	Simulation of mechanical response during polymer crystallization around rigid inclusions and voids: homogeneous crystallization. Mechanics of Materials, 1995, 21, 25-50.	3.3	12
348	A renewal theory of inelasticity. Mechanics of Materials, 1995, 21, 99-117.	3.3	2
349	Checkerboard patterns in layout optimization. Structural Optimization, 1995, 10, 40-45.	0.7	472
350	Tailoring Materials for Specific Needs. Journal of Intelligent Material Systems and Structures, 1994, 5, 736-742.	2.6	20
351	Materials with prescribed constitutive parameters: An inverse homogenization problem. International Journal of Solids and Structures, 1994, 31, 2313-2329.	2.7	825
352	Generalized Frenkel-Kontorova models. Physica A: Statistical Mechanics and Its Applications, 1994, 205, 420-442.	2.6	8
353	Topology Optimization Using Iterative Continuum-Type Optimality Criteria (COC) Methods for Discretized Systems. , 1993, , 273-286.		13
354	An Original hypercalcemic infantile renal tumor without bone metastasis: Heterotransplantation to nude mice report of two cases. Cancer, 1982, 50, 85-93.	4.1	25
355	Coronary and myocardial metabolic effects of combined glyceryl trinitrate and propranolol administration. Observations in patients with and without coronary disease.. Heart, 1978, 40, 1221-1228.	3.8	19
356	Radiation induced DNA double strand breaks and chromosome aberrations. Theoretical and Applied Genetics, 1974, 44, 167-172.	3.7	37
357	Die Kristallstruktur des K ₄ [Si ₈ O ₁₉]: ein neuer Silikat-Schichttyp. Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry, 1974, 30, 2206-2213.	0.4	36
358	Renal Hypoplasia and Compensatory Hypertrophy in a Raccoon. Journal of Mammalogy, 1966, 47, 128.	1.3	2
359	Äœber die Repertorisationsmethode nach v. Boenninghansen. Zeitschrift F¼r Klassische HomÄtopathie, 1963, 7, 157-168.	0.1	0
360	Design and fabrication of compliant micromechanisms and structures with negative Poisson's ratio. , 0, , .		21

#	ARTICLE	IF	CITATIONS
361	Systematic design of microstructures by topology optimization. , 0, , .		1
362	Design and fabrication of SOI-based photonic crystal components. , 0, , .		1
363	Prospects for poor-man's cloaking with low-contrast all-dielectric optical elements. Journal of the European Optical Society-Rapid Publications, 0, 4, .	1.9	7
364	Optimizing Steering Column Layout and UJ Phase Angle to Enhance Vehicle Dynamics Performance. , 0, , .		0
365	Transient Topology Optimization of Two-Dimensional Elastic Wave Propagation. , 0, , .		0