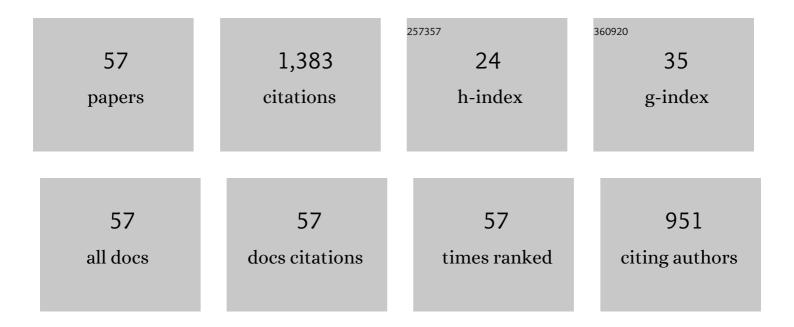
Xiaopeng Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2057909/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	A velocity field level set method for topology optimization of piezoelectric layer on the plate with active vibration control. Mechanics of Advanced Materials and Structures, 2023, 30, 1326-1339.	1.5	6
2	Concurrent Topology Optimization of Composite Plates for Minimum Dynamic Compliance. Materials, 2022, 15, 538.	1.3	1
3	A new form of forbidden frequency band constraint for dynamic topology optimization. Structural and Multidisciplinary Optimization, 2022, 65, 1.	1.7	5
4	Robust topology optimization of biodegradable composite structures under uncertain degradation rates. Composite Structures, 2022, 291, 115593.	3.1	2
5	Topological design of phononic crystals for multiple wide band gaps. Journal of Sound and Vibration, 2022, 529, 116962.	2.1	15
6	Topology optimization for realizing tailored self ollimation in phononic crystals. International Journal for Numerical Methods in Engineering, 2022, 123, 4170-4182.	1.5	5
7	Topology optimization of magnetorheological smart materials included PnCs for tunable wide bandgap design. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	1.5	6
8	Realization of full and directional band gap design by non-gradient topology optimization in acoustic metamaterials. Extreme Mechanics Letters, 2021, 42, 101126.	2.0	55
9	Co3O4-based catalysts derived from natural wood with hierarchical structure for elemental mercury oxidation. Journal of the Energy Institute, 2021, 94, 285-293.	2.7	11
10	Topological design of microstructures using periodic material-field series-expansion and gradient-free optimization algorithm. Materials and Design, 2021, 199, 109437.	3.3	26
11	Topological Design of Freely Vibrating Bi-Material Structures to Achieve the Maximum Band Gap Centering at a Specified Frequency. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	1.1	6
12	A Systematic Review and Meta-Analysis of Randomized Controlled Trials of Labor Epidural Analgesia Using Moderately High Concentrations of Plain Local Anesthetics versus Low Concentrations of Local Anesthetics with Opioids. Journal of Pain Research, 2021, Volume 14, 1303-1313.	0.8	4
13	Photonic Band Gap Material Topological Design at Specified Target Frequency. Advanced Theory and Simulations, 2021, 4, 2100125.	1.3	8
14	Multi-material topology optimization of piezoelectric composite structures for energy harvesting. Composite Structures, 2021, 265, 113783.	3.1	28
15	Photonic crystal topological design for polarized and polarization-independent band gaps by gradient-free topology optimization. Optics Express, 2021, 29, 24861.	1.7	10
16	A MATLAB code for the material-field series-expansion topology optimization method. Frontiers of Mechanical Engineering, 2021, 16, 607-622.	2.5	11
17	Multi-electrode layout design of electrorheological composite plates considering energy consumption in semi-active control. Thin-Walled Structures, 2021, 165, 108001.	2.7	2
18	Topology optimization of composite macrostructures comprising multi-phase viscoelastic composite microstructures for enhanced structural damping. Composite Structures, 2021, 278, 114712.	3.1	12

XIAOPENG ZHANG

#	Article	IF	CITATIONS
19	Narrow-band filter design of phononic crystals with periodic point defects via topology optimization. International Journal of Mechanical Sciences, 2021, 212, 106829.	3.6	32
20	A Precisely ontrolled Multichannel Phononic Crystal Resonant Cavity. Advanced Theory and Simulations, 2021, 4, 2100250.	1.3	6
21	Optimal Designs of Phononic Crystal Microstructures Considering Point and Line Defects. Symmetry, 2021, 13, 1993.	1.1	Ο
22	Topology optimisation of a porous unit cell in a fluid flow considering Forchheimer drag. International Journal of Computational Fluid Dynamics, 2020, 34, 50-60.	0.5	8
23	Sensitivity analysis and lattice density optimization for sequential inherent strain method used in additive manufacturing process. Computer Methods in Applied Mechanics and Engineering, 2020, 370, 113231.	3.4	32
24	Co ₃ O ₄ Nanosheets Preferentially Growing (220) Facet with a Large Amount of Surface Chemisorbed Oxygen for Efficient Oxidation of Elemental Mercury from Flue Gas. Environmental Science & Technology, 2020, 54, 8601-8611.	4.6	72
25	Promoting Effect of the Core-Shell Structure of MnO2@TiO2 Nanorods on SO2 Resistance in HgO Removal Process. Catalysts, 2020, 10, 72.	1.6	11
26	A general assessment index for non-probabilistic reliability of structures with bounded field and parametric uncertainties. Computer Methods in Applied Mechanics and Engineering, 2020, 366, 113046.	3.4	16
27	A Systematic Review and Meta-analysis of Clinical Trials of Neuraxial, Intravenous, and Inhalational Anesthesia for External Cephalic Version. Anesthesia and Analgesia, 2020, 131, 1800-1811.	1.1	7
28	Energy and Economic Optimization of the Multistage Condensation Rankine Cycle That Utilizes LNG Cold Energy: Considerations on Working Fluids and Cycle Configurations. ACS Sustainable Chemistry and Engineering, 2019, 7, 13505-13516.	3.2	11
29	Bi-material Topology Optimization Using Analysis Mesh-Independent Point-Wise Density Interpolation. Acta Mechanica Solida Sinica, 2019, 32, 698-712.	1.0	0
30	Optimization of an additively manufactured functionally graded lattice structure with liquid cooling considering structural performances. International Journal of Heat and Mass Transfer, 2019, 143, 118564.	2.5	29
31	Review on structural control and modification of graphene oxide-based membranes in water treatment: From separation performance to robust operation. Chinese Journal of Chemical Engineering, 2019, 27, 1348-1360.	1.7	33
32	Co ₃ O ₄ Nanorods with a Great Amount of Oxygen Vacancies for Highly Efficient Hg ^O Oxidation from Coal Combustion Flue Gas. Energy & Fuels, 2019, 33, 6552-6561.	2.5	46
33	Method to optimize an additively-manufactured functionally-graded lattice structure for effective liquid cooling. Additive Manufacturing, 2019, 28, 285-298.	1.7	35
34	Numerical study on the effective stiffness of topology-optimized lattice structures made of orthotropic crystal grains with optimal orientation. Computational Materials Science, 2019, 159, 202-209.	1.4	7
35	Robust topology optimization of vibrating structures considering random diffuse regions via a phase-field method. Computer Methods in Applied Mechanics and Engineering, 2019, 344, 766-797.	3.4	21
36	A phase-field based robust topology optimization method for phononic crystals design considering uncertain diffuse regions. Computational Materials Science, 2019, 160, 159-172.	1.4	26

XIAOPENG ZHANG

#	Article	IF	CITATIONS
37	An objective function for the topology optimization of sound-absorbing materials. Journal of Sound and Vibration, 2019, 443, 804-819.	2.1	14
38	Two-stage layout–size optimization method for prow stiffeners. International Journal of Naval Architecture and Ocean Engineering, 2019, 11, 44-51.	1.0	7
39	Layout design of piezoelectric patches in structural linear quadratic regulator optimal control using topology optimization. Journal of Intelligent Material Systems and Structures, 2018, 29, 2277-2294.	1.4	15
40	Inverse analysis of giant macroscopic negative thermal expansion of Ca2RuO4â^'yceramics based on elasticity and structural topology optimization. Applied Physics Express, 2018, 11, 055801.	1.1	10
41	Topology optimization of piezoelectric smart structures for minimum energy consumption under active control. Structural and Multidisciplinary Optimization, 2018, 58, 185-199.	1.7	27
42	Ce-Co interaction effects on the catalytic performance of uniform mesoporous Cex-Coy catalysts in Hg0 oxidation process. Fuel, 2018, 226, 18-26.	3.4	30
43	Simultaneous optimization of system structure and working fluid for the three-stage condensation Rankine cycle utilizing LNG cold energy. Applied Thermal Engineering, 2018, 140, 120-130.	3.0	40
44	Robust topology optimization of phononic crystals with random field uncertainty. International Journal for Numerical Methods in Engineering, 2018, 115, 1154-1173.	1.5	50
45	Isotropic Ti–6Al–4V lattice via topology optimization and electron-beam melting. Additive Manufacturing, 2018, 22, 634-642.	1.7	27
46	Wrinkling and wrinkling-suppression in graphene membranes with frozen zone. Thin Solid Films, 2017, 638, 345-353.	0.8	11
47	Robust topology optimization for dynamic compliance minimization under uncertain harmonic excitations with inhomogeneous eigenvalue analysis. Structural and Multidisciplinary Optimization, 2016, 54, 1469-1484.	1.7	30
48	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
49	Robust topology optimization for dynamic compliance minimization under uncertain harmonic excitations with inhomogeneous eigenvalue analysis. , 2016, 54, 1469.		1
50	Topology optimization of magnetorheological fluid layers in sandwich plates for semi-active vibration control. Smart Materials and Structures, 2015, 24, 085024.	1.8	14
51	Topological design of compliant smart structures with embedded movable actuators. Smart Materials and Structures, 2014, 23, 045024.	1.8	59
52	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
53	Topology optimization of electrode coverage of piezoelectric thin-walled structures with CGVF control for minimizing sound radiation. Structural and Multidisciplinary Optimization, 2014, 50, 799-814.	1.7	34
54	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

XIAOPENG ZHANG

#	Article	IF	CITATIONS
55	Mechanics of self-folding of single-layer graphene. Journal Physics D: Applied Physics, 2013, 46, 055308.	1.3	68
56	Topology optimization of damping layers for minimizing sound radiation of shell structures. Journal of Sound and Vibration, 2013, 332, 2500-2519.	2.1	64
57	On topology optimization of damping layer in shell structures under harmonic excitations. Structural and Multidisciplinary Optimization, 2012, 46, 51-67.	1.7	125