

Jianbin Du

List of Publications by Year in descending order

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41
papers

1,217
citations

516561

16
h-index

377752

34
g-index

44
all docs

44
docs citations

44
times ranked

618
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological design of freely vibrating continuum structures for maximum values of simple and multiple eigenfrequencies and frequency gaps. <i>Structural and Multidisciplinary Optimization</i> , 2007, 34, 91-110.	1.7	346
2	Minimization of sound radiation from vibrating bi-material structures using topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2007, 33, 305-321.	1.7	157
3	Topological design of vibrating structures with respect to optimum sound pressure characteristics in a surrounding acoustic medium. <i>Structural and Multidisciplinary Optimization</i> , 2010, 42, 43-54.	1.7	86
4	Topological optimization of continuum structures with design-dependent surface loading ? Part I: new computational approach for 2D problems. <i>Structural and Multidisciplinary Optimization</i> , 2004, 27, 151-165.	1.7	84
5	Generalized incremental frequency method for topological design of continuum structures for minimum dynamic compliance subject to forced vibration at a prescribed low or high value of the excitation frequency. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 1113-1141.	1.7	59
6	Topological optimization of continuum structures with design-dependent surface loading ? Part II: algorithm and examples for 3D problems. <i>Structural and Multidisciplinary Optimization</i> , 2004, 27, 166-177.	1.7	57
7	Microstructural topology optimization with respect to sound power radiation. <i>Structural and Multidisciplinary Optimization</i> , 2013, 47, 191-206.	1.7	40
8	Concurrent multi-scale and multi-material topological optimization of vibro-acoustic structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 349, 117-148.	3.4	35
9	Vibro-acoustic design of plate using bi-material microstructural topology optimization. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 1413-1419.	0.7	31
10	Hybrid optimization of a vibration isolation system considering layout of structure and locations of components. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 1-15.	1.7	25
11	Interval analysis based robust truss optimization with continuous and discrete variables using mix-coded genetic algorithm. <i>Structural and Multidisciplinary Optimization</i> , 2017, 56, 353-370.	1.7	22
12	Topology optimization of freely vibrating continuum structures based on nonsmooth optimization. <i>Structural and Multidisciplinary Optimization</i> , 2017, 56, 603-618.	1.7	21
13	Flexibility investigation of a marine riser system based on an accurate and efficient modelling and flexible multibody dynamics. <i>Ocean Engineering</i> , 2020, 207, 107407.	1.9	21
14	Topological Design for Minimum Dynamic Compliance of Structures under Forced Vibration. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2014, , 325-339.	0.3	20
15	Reliability-based vibro-acoustic microstructural topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2017, 55, 1195-1215.	1.7	17
16	Simultaneous topology optimization of supporting structure and loci of isolators in an active vibration isolation system. <i>Computers and Structures</i> , 2018, 194, 74-85.	2.4	16
17	Topology optimization of phononic-like structures using experimental material interpolation model for additive manufactured lattice infills. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 377, 113717.	3.4	16
18	Design of metamaterial mechanisms using robust topology optimization and variable linking scheme. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 1975-1988.	1.7	14

#	ARTICLE	IF	CITATIONS
19	On Topological Design Optimization of Structures Against Vibration and Noise Emission. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2008, , 217-276.	0.3	12
20	A generalized DCT compression based density method for topology optimization of 2D and 3D continua. Computer Methods in Applied Mechanics and Engineering, 2018, 334, 1-21.	3.4	11
21	Application of an energy-based model for the optimal design of structural materials and topology. Structural and Multidisciplinary Optimization, 2002, 24, 277-292.	1.7	10
22	Design of phononic-like structures and band gap tuning by concurrent two-scale topology optimization. Structural and Multidisciplinary Optimization, 2020, 61, 943-962.	1.7	10
23	Robust Design of Tension Truss Antennas Against Variation in Tension Forces. AIAA Journal, 2018, 56, 3374-3381.	1.5	10
24	Topology Optimization of Vibrating Bi-Material Structures with Respect to Sound Radiation. , 2006, , 43-52.		8
25	Highly efficient density-based topology optimization using DCT-based digital image compression. Structural and Multidisciplinary Optimization, 2018, 57, 463-467.	1.7	7
26	Topology optimization of bi-material structures with frequency-domain objectives using time-domain simulation and sensitivity analysis. Structural and Multidisciplinary Optimization, 2021, 63, 575-593.	1.7	7
27	Topological Design for Minimum Sound Emission from Structures under Forced Vibration. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2014, , 341-357.	0.3	7
28	An ODE-driven level-set density method for topology optimization. Computer Methods in Applied Mechanics and Engineering, 2021, 387, 114159.	3.4	7
29	Optimization of the motion control mechanism of the hatch door of airliner. Structural and Multidisciplinary Optimization, 2015, 51, 1173-1186.	1.7	6
30	Structural Topology Optimization with Respect to Eigenfrequencies of Vibration. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2014, , 275-297.	0.3	6
31	Topology optimization of continua considering mass and inertia characteristics. Structural and Multidisciplinary Optimization, 2019, 60, 429-442.	1.7	5
32	Fundamental problem in optimizing the biaxial testing specimen. Science China Technological Sciences, 2019, 62, 773-780.	2.0	3
33	Nonlinear dynamic analysis of the bridge bearing and genetic algorithm-based optimization for seismic mitigation. Advances in Structural Engineering, 2020, 23, 2539-2556.	1.2	3
34	Special issue for the 13th world congress on structural and multidisciplinary optimization—editorial note. Structural and Multidisciplinary Optimization, 2020, 61, 2225-2226.	1.7	2
35	A highly efficient beam-in-beam large sliding contact method for flexible multibody dynamics. Computational Mechanics, 2021, 67, 1155-1175.	2.2	1
36	Minimization of sound radiation from vibrating bi-material structures using topology optimization. , 2007, 33, 305.		1

#	ARTICLE	IF	CITATIONS
37	Topology optimization of freely vibrating continuum structures based on nonsmooth optimization. , 2017, 56, 603.		1
38	Special issue dedicated to Founding Editor George Rozvany. Structural and Multidisciplinary Optimization, 2016, 54, 1107-1111.	1.7	0
39	Structural design flow of typical aircraft components based on topology optimization. IOP Conference Series: Materials Science and Engineering, 2020, 892, 012029.	0.3	0
40	Simultaneously static and dynamic layout designs of stiffening structures. IOP Conference Series: Materials Science and Engineering, 2020, 892, 012065.	0.3	0
41	Topological Design of Vibro-Acoustic Structures Using a Generalized Incremental Frequency Method. , 2018, , 1499-1515.		0