Chang-Jun Zheng

List of Publications by Year
in descending order

54	1,350	279778 23	361001 35
papers	citations	h-index	g-index

54	54	54	470
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel spaceâ€“time generalized FDM for dynamic coupled thermoelasticity problems in heterogeneous plates. Archive of Applied Mechanics, 2022, 92, 287-307.	2.2	7
2	Bi-material topology optimization for fully coupled structural-acoustic systems with isogeometric FEMâ€“BEM. Engineering Analysis With Boundary Elements, 2022, 135, 182-195.	3.7	35
3	A sample-efficient deep learning method for multivariate uncertainty qualification of acousticâ€“vibration interaction problems. Computer Methods in Applied Mechanics and Engineering, 2022, 393, 114784.	6.6	36
4	An approach for assessing the effects of porous materials on controlling the tire cavity resonance noise. Engineering Analysis With Boundary Elements, 2022, 143, 418-427.	3.7	4
5	Determination of scattering frequencies for two-dimensional acoustic problems using boundary element method. Journal of Low Frequency Noise Vibration and Active Control, 2021, 40, 39-59.	2.9	4
6	A localized meshless collocation method based on semiâ€analytical basis functions for bandgap calculation of elastic waves in phononic crystals. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000021.	0.2	0
7	A Chebyshev collocation method for band structure calculations of the longitudinal elastic waves in phononic crystals. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000115.	0.2	1
8	Electroelastic analysis of twoâ€dimensional ultrathin layered piezoelectric films by an advanced boundary element method. International Journal for Numerical Methods in Engineering, 2021, 122, 2653-2671.	2.8	7
9	Sensitivity analysis of acoustic eigenfrequencies by using a boundary element method. Journal of the Acoustical Society of America, 2021, 149, 2027-2039.	1.1	11
10	Combined shape and topology optimization for sound barrier by using the isogeometric boundary element method. Engineering Analysis With Boundary Elements, 2021, 124, 124-136.	3.7	17
11	A Parameter Study of the Burtonâ€“Miller Formulation in the BEM Analysis of Acoustic Resonances in Exterior Configurations. Journal of Theoretical and Computational Acoustics, 2021, 29, 2050023.	1.1	6
12	Subdivision Surfaces â€” Boundary Element Accelerated by Fast Multipole for the Structural Acoustic Problem. Journal of Theoretical and Computational Acoustics, 2020, 28, 2050011.	1.1	26
13	Acoustic Shape Optimization Based on Isogeometric Wideband Fast Multipole Boundary Element Method with Adjoint Variable Method. Journal of Theoretical and Computational Acoustics, 2020, 28, 2050015.	1.1	13
14	Band structure analysis for 2D acoustic phononic structure using isogeometric boundary element method. Advances in Engineering Software, 2020, 149, 102888.	3.8	7
15	A boundary element eigensolver for acoustic resonances in cavities with impedance boundary conditions. Journal of the Acoustical Society of America, 2020, 147, EL529-EL534.	1.1	2
16	Simulation of Sound Propagation Over an Infinite Impedance Plane by Using a Fast Multipole BEM. Journal of Theoretical and Computational Acoustics, 2020, 28, 2050020.	1.1	4
17	Localized method of fundamental solutions for interior Helmholtz problems with high wave number. Engineering Analysis With Boundary Elements, 2019, 107, 25-32.	3.7	14
18	Analysis of three-dimensional interior acoustic fields by using the localized method of fundamental solutions. Applied Mathematical Modelling, 2019, 76, 122-132.	4.2	36

#	Article	IF	Citations
19	Localized method of fundamental solutions for three-dimensional inhomogeneous elliptic problems: theory and MATLAB code. Computational Mechanics, 2019, 64, 1567-1588.	4.0	33
20	Fictitious eigenfrequencies in the BEM for interior acoustic problems. Engineering Analysis With Boundary Elements, 2019, 104, 170-182.	3.7	31
21	Vibration Characteristics of Rotating Mistuned Bladed Disks considering the Coriolis Force, Spin Softening, and Stress Stiffening Effects. Shock and Vibration, 2019, 2019, 1-22.	0.6	5
22	A Reduced-Order Model for the Vibration Analysis of Mistuned Bladeâ€“Discâ€“Shaft Assembly. Applied Sciences (Switzerland), 2019, 9, 4762.	2.5	4
23	A combined scheme of generalized finite difference method and Krylov deferred correction technique for highly accurate solution of transient heat conduction problems. International Journal for Numerical Methods in Engineering, 2019, 117, 63-83.	2.8	31
24	Acoustic topology optimization of porous material distribution based on an adjoint variable FMBEM sensitivity analysis. Engineering Analysis With Boundary Elements, 2019, 99, 60-75.	3.7	13
25	Near-field acoustic holography with three-dimensional scanning measurements. Journal of Sound and Vibration, 2019, 439, 43-55.	3.9	23
26	Minimization of sound radiation in fully coupled structural-acoustic systems using FEM-BEM based topology optimization. Structural and Multidisciplinary Optimization, 2018, 58, 115-128.	3.5	15
27	Free vibration analysis of elastic structures submerged in an infinite or semi-infinite fluid domain by means of a coupled FEâ€“BE solver. Journal of Computational Physics, 2018, 359, 183-198.	3.8	25
28	Analysis of three-dimensional anisotropic heat conduction problems on thin domains using an advanced boundary element method. Computers and Mathematics With Applications, 2018, 75, 33-44.	2.7	101
29	A wideband fast multipole accelerated singular boundary method for three-dimensional acoustic problems. Computers and Structures, 2018, 206, 82-89.	4.4	11
30	Total coloring of planar graphs without adjacent short cycles. Journal of Combinatorial Optimization, 2017, 33, 265-274.	1.3	7
31	Design of absorbing material distribution for sound barrier using topology optimization. Structural and Multidisciplinary Optimization, 2017, 56, 315-329.	3.5	24
32	A general algorithm for evaluating nearly strong-singular (and beyond) integrals in three-dimensional boundary element analysis. Computational Mechanics, 2017, 59, 779-793.	4.0	14
33	Error bounds of singular boundary method for potential problems. Numerical Methods for Partial Differential Equations, 2017, 33, 1987-2004.	3.6	28
34	Diagonal form fast multipole singular boundary method applied to the solution of highâ€frequency acoustic radiation and scattering. International Journal for Numerical Methods in Engineering, 2017, 111, 803-815.	2.8	39
35	Structuralâ€“acoustic sensitivity analysis of radiated sound power using a finite element/ discontinuous fast multipole boundary element scheme. International Journal for Numerical Methods in Fluids, 2016, 82, 858-878.	1.6	34
36	A note on the minimum total coloring of planar graphs. Acta Mathematica Sinica, English Series, 2016, 32, 967-974.	0.6	2

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37	Resolvent sampling based Rayleighâ€“Ritz method for large-scale nonlinear eigenvalue problems. Computer Methods in Applied Mechanics and Engineering, 2016, 310, 33-57.	6.6	18
38	A meshless singular boundary method for threeâ€dimensional elasticity problems. International Journal for Numerical Methods in Engineering, 2016, 107, 109-126.	2.8	41
39	An accurate and efficient acoustic eigensolver based on a fast multipole BEM and a contour integral method. Journal of Computational Physics, 2016, 305, 677-699.	3.8	33
40	Fast multipole accelerated singular boundary method for the 3D Helmholtz equation in low frequency regime. Computers and Mathematics With Applications, 2015, 70, 679-690.	2.7	60
41	Analysis of Two-Dimensional Thin Structures (From Micro- to Nano-Scales) Using the Singular Boundary Method. Advances in Applied Mathematics and Mechanics, 2015, 7, 597-609.	1.2	2
42	Is the Burtonâ€“Miller formulation really free of fictitious eigenfrequencies?. Engineering Analysis With Boundary Elements, 2015, 59, 43-51.	3.7	72
43	BEM-based analysis of elastic banded material by using a contour integral method. Engineering Analysis With Boundary Elements, 2015, 53, 56-64.	3.7	22
44	Singular boundary method for inverse heat conduction problems in general anisotropic media. Inverse Problems in Science and Engineering, 2014, 22, 889-909.	1.2	31
45	Burtonâ€“Miller-type singular boundary method for acoustic radiation and scattering. Journal of Sound and Vibration, 2014, 333, 3776-3793.	3.9	103
46	Two general algorithms for nearly singular integrals in two dimensional anisotropic boundary element method. Computational Mechanics, 2014, 53, 1223-1234.	4.0	19
47	FEM/wideband FMBEM coupling for structuralâ€“acoustic design sensitivity analysis. Computer Methods in Applied Mechanics and Engineering, 2014, 276, 1-19.	6.6	30
48	Improved singular boundary method for elasticity problems. Computers and Structures, 2014, 135, 73-82.	4.4	35
49	A wideband FMBEM for 2D acoustic design sensitivity analysis based on direct differentiation method. Computational Mechanics, 2013, 52, 631-648.	4.0	23
50	A wideband fast multipole boundary element method for half-space/plane-symmetric acoustic wave problems. Acta Mechanica Sinica/Lixue Xuebao, 2013, 29, 219-232.	3.4	14
51	An Improved Formulation of Singular Boundary Method. Advances in Applied Mathematics and Mechanics, 2012, 4, 543-558.	1.2	60
52	A wideband fast multipole boundary element method for three dimensional acoustic shape sensitivity analysis based on direct differentiation method. Engineering Analysis With Boundary Elements, 2012, 36, 361-371.	3.7	51
53	Explicit evaluation of hypersingular boundary integral equations for acoustic sensitivity analysis based on direct differentiation method. Engineering Analysis With Boundary Elements, 2011, 35, 1225-1235.	3.7	34
54	Explicit Evaluation of Hypersingular Boundary Integral Equation for 3-D Helmholtz Equation Discretized with Constant Triangular Element. Journal of Computational Science and Technology, 2010, 4, 194-206.	0.4	32