

# Leilei Chen

## List of Publications by Year in descending order

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26  
papers

775  
citations

516710

16  
h-index

580821

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

229  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bi-material topology optimization for fully coupled structural-acoustic systems with isogeometric FEM-BEM. <i>Engineering Analysis With Boundary Elements</i> , 2022, 135, 182-195.	3.7	35
2	Topology optimization of multimaterial distribution based on isogeometric boundary element and piecewise constant level set method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 390, 114484.	6.6	6
3	A sample-efficient deep learning method for multivariate uncertainty qualification of acoustic-vibration interaction problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 393, 114784.	6.6	36
4	Multi-frequency acoustic topology optimization of sound-absorption materials with isogeometric boundary element methods accelerated by frequency-decoupling and model order reduction techniques. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 395, 114997.	6.6	47
5	Monte Carlo Based Isogeometric Stochastic Finite Element Method for Uncertainty Quantization in Vibration Analysis of Piezoelectric Materials. <i>Mathematics</i> , 2022, 10, 1840.	2.2	10
6	Combined shape and topology optimization for sound barrier by using the isogeometric boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2021, 124, 124-136.	3.7	17
7	Modeling pressurized fracture propagation with the isogeometric BEM. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	2.9	24
8	Subdivision Surfaces - Boundary Element Accelerated by Fast Multipole for the Structural Acoustic Problem. <i>Journal of Theoretical and Computational Acoustics</i> , 2020, 28, 2050011.	1.1	26
9	Acoustic Shape Optimization Based on Isogeometric Wideband Fast Multipole Boundary Element Method with Adjoint Variable Method. <i>Journal of Theoretical and Computational Acoustics</i> , 2020, 28, 2050015.	1.1	13
10	Band structure analysis for 2D acoustic phononic structure using isogeometric boundary element method. <i>Advances in Engineering Software</i> , 2020, 149, 102888.	3.8	7
11	Seamless integration of computer-aided geometric modeling and acoustic simulation: Isogeometric boundary element methods based on Catmull-Clark subdivision surfaces. <i>Advances in Engineering Software</i> , 2020, 149, 102879.	3.8	43
12	Distribution Optimization for Acoustic Design of Porous Layer by the Boundary Element Method. <i>Acoustics Australia</i> , 2020, 48, 107-119.	2.4	5
13	An effective approach for topological design to the acoustic-structure interaction systems with infinite acoustic domain. <i>Structural and Multidisciplinary Optimization</i> , 2020, 62, 1253-1273.	3.5	3
14	Acoustic topology optimization of sound absorbing materials directly from subdivision surfaces with isogeometric boundary element methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 362, 112806.	6.6	83
15	Structural shape optimization of three dimensional acoustic problems with isogeometric boundary element methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 355, 926-951.	6.6	111
16	Topology optimization of exterior acoustic-structure interaction systems using the coupled FEM-BEM method. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 119, 404-431.	2.8	29
17	ACOUSTIC SHAPE OPTIMIZATION BASED ON ISOGEOMETRIC BEM WITH ADJOINT VARIABLE METHOD. , 2019, , .		0
18	Study on the Optimization of the Distribution of Absorbing Material on a Noise Barrier. <i>Acoustics Australia</i> , 2018, 46, 119-130.	2.4	6

#	ARTICLE	IF	CITATIONS
19	An isogeometric approach of two dimensional acoustic design sensitivity analysis and topology optimization analysis for absorbing material distribution. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 336, 507-532.	6.6	68
20	Design of absorbing material distribution for sound barrier using topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2017, 56, 315-329.	3.5	24
21	An Adjoint Operator Approach for Sensitivity Analysis of Radiated Sound Power in Fully Coupled Structural-Acoustic Systems. <i>Journal of Computational Acoustics</i> , 2017, 25, 1750003.	1.0	27
22	Shape optimization of sound barrier using an isogeometric fast multipole boundary element method in two dimensions. <i>Engineering Analysis With Boundary Elements</i> , 2017, 85, 142-157.	3.7	57
23	Structural acoustic sensitivity analysis of radiated sound power using a finite element/discontinuous fast multipole boundary element scheme. <i>International Journal for Numerical Methods in Fluids</i> , 2016, 82, 858-878.	1.6	34
24	2D Acoustic Design Sensitivity Analysis Based on Adjoint Variable Method Using Different Types of Boundary Elements. <i>Acoustics Australia</i> , 2016, 44, 343-357.	2.4	11
25	FEM/wideband FMBEM coupling for structural acoustic design sensitivity analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 276, 1-19.	6.6	30
26	A wideband FMBEM for 2D acoustic design sensitivity analysis based on direct differentiation method. <i>Computational Mechanics</i> , 2013, 52, 631-648.	4.0	23