

## List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Design of single-phase chiral metamaterials for broadband double negativity via shape optimization.<br>Applied Mathematical Modelling, 2021, 91, 335-357.   | 4.2 | 9         |
| 2  | Improve the frontal crashworthiness of vehicle through the design of front rail. Thin-Walled Structures, 2021, 162, 107588.   | 5.3 | 48        |
| 3  | Improved impact responses of a honeycomb sandwich panel structure with internal resonators.<br>Engineering Optimization, 2020, 52, 731-752.   | 2.6 | 8         |
| 4  | A novel method to study the phononic crystals with fluid–structure interaction and hybrid uncertainty. Acta Mechanica, 2020, 231, 321-352.  | 2.1 | 13        |
| 5  | Energy absorption characteristics of three-layered sandwich panels with graded re-entrant hierarchical honeycombs cores. Aerospace Science and Technology, 2020, 106, 106073.                                       | 4.8 | 60        |
| 6  | Elastic properties and multi-scale design of long carbon fiber nonwoven reinforced plane-based isotropic composite. Composite Structures, 2020, 251, 112657.  | 5.8 | 20        |
| 7  | A lightweight adaptive hybrid laminate metamaterial with higher design freedom for wave attenuation. Composite Structures, 2020, 243, 112230.   | 5.8 | 30        |
| 8  | The feedback artificial tree (FAT) algorithm. Soft Computing, 2020, 24, 13413-13440.  | 3.6 | 25        |
| 9  | Design of resonant structures in resin matrix to mitigate the blast wave with a very wide frequency range. Smart Materials and Structures, 2020, 29, 045042.  | 3.5 | 19        |
| 10 | Random dynamic load identification for stochastic structural-acoustic system using an adaptive regularization parameter and evidence theory. Journal of Sound and Vibration, 2020, 471, 115188.                     | 3.9 | 30        |
| 11 | Robust topological design of actuator-coupled structures with hybrid uncertainties. Acta Mechanica, 2020, 231, 1621-1638.   | 2.1 | 7         |
| 12 | Robust concurrent topology optimization of structure and its composite material considering<br>uncertainty with imprecise probability. Computer Methods in Applied Mechanics and Engineering, 2020,<br>364, 112927. | 6.6 | 36        |
| 13 | Design multi-stopband laminate acoustic metamaterials for structural-acoustic coupled system.<br>Mechanical Systems and Signal Processing, 2019, 115, 418-433.  | 8.0 | 58        |
| 14 | In-plane crashworthiness of re-entrant hierarchical honeycombs with negative Poisson's ratio.<br>Composite Structures, 2019, 229, 111415.   | 5.8 | 120       |
| 15 | Optimal balance between mass and smoothed stiffness in simulation of acoustic problems. Applied<br>Mathematical Modelling, 2019, 75, 1-22.  | 4.2 | 25        |
| 16 | Dissipative multi-resonator acoustic metamaterials for impact force mitigation and collision energy absorption. Acta Mechanica, 2019, 230, 2905-2935.   | 2.1 | 35        |
| 17 | Analysis on loudness of exhaust noise and improvement of exhaust system based on structure-loudness model. Applied Acoustics, 2019, 150, 104-112.   | 3.3 | 8         |
| 18 | Multi-source random excitation identification for stochastic structures based on matrix<br>perturbation and modified regularization method. Mechanical Systems and Signal Processing, 2019,<br>119, 266-292.        | 8.0 | 35        |

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| 19 | An efficient algorithm for nonlinear active noise control of impulsive noise. Applied Acoustics, 2019, 148, 366-374.   | 3.3  | 22        |
| 20 | Design of a multi-resonator metamaterial for mitigating impact force. Journal of Applied Physics, 2019, 125, .   | 2.5  | 15        |
| 21 | A non-contact acoustic pressure-based method for load identification in acoustic-structural interaction system with non-probabilistic uncertainty. Applied Acoustics, 2019, 148, 223-237.                                    | 3.3  | 26        |
| 22 | Topology optimization of structure for dynamic properties considering hybrid uncertain parameters.<br>Structural and Multidisciplinary Optimization, 2018, 57, 625-638.  | 3.5  | 25        |
| 23 | Analysis and optimization of clutch judder based on a hybrid uncertain model with random and interval variables. Engineering Optimization, 2018, 50, 1894-1913.  | 2.6  | 9         |
| 24 | An efficient algorithm to analyze wave propagation in fluid/solid and solid/fluid phononic crystals.<br>Computer Methods in Applied Mechanics and Engineering, 2018, 333, 421-442.   | 6.6  | 52        |
| 25 | Uncertainty analysis and optimization of automotive driveline torsional vibration with a driveline and rear axle coupled model. Engineering Optimization, 2018, 50, 1871-1893.   | 2.6  | 10        |
| 26 | An uncertainty model of acoustic metamaterials with random parameters. Computational Mechanics, 2018, 62, 1023-1036.   | 4.0  | 35        |
| 27 | A Novel Method for Load Bounds Identification for Uncertain Structures in Frequency Domain.<br>International Journal of Computational Methods, 2018, 15, 1850051.  | 1.3  | 20        |
| 28 | Evaluation of the stiffness matrix in static and dynamic elasticity problems. Acta Mechanica, 2018, 229,<br>363-388.   | 2.1  | 4         |
| 29 | Fundamental study of mechanism of band gap in fluid and solid/fluid phononic crystals. Advances in<br>Engineering Software, 2018, 121, 167-177.  | 3.8  | 13        |
| 30 | Design and optimization of three-resonator locally resonant metamaterial for impact force mitigation. Smart Materials and Structures, 2018, 27, 095015.  | 3.5  | 25        |
| 31 | Large time steps in the explicit formulation of transient heat transfer. International Journal of Heat and Mass Transfer, 2017, 108, 2040-2052.  | 4.8  | 7         |
| 32 | A stochastic perturbation edge-based smoothed finite element method for the analysis of uncertain<br>structural-acoustics problems with random variables. Engineering Analysis With Boundary Elements,<br>2017, 80, 116-126. | 3.7  | 24        |
| 33 | Development of a perfect match system in the improvement of eigenfrequencies of free vibration.<br>Applied Mathematical Modelling, 2017, 44, 614-639.  | 4.2  | 17        |
| 34 | Design for structural vibration suppression in laminate acoustic metamaterials. Composites Part B:<br>Engineering, 2017, 131, 237-252.   | 12.0 | 58        |
| 35 | Stability and accuracy improvement for explicit formulation of time domain acoustic problems.<br>Engineering Analysis With Boundary Elements, 2017, 83, 217-228.   | 3.7  | 14        |
| 36 | Comparisons between the dynamic and quasi-static performances of a dissipative dielectric elastomer under pure shear mode. Smart Materials and Structures, 2017, 26, 105044.   | 3.5  | 8         |

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| 37 | An ultra-accurate numerical method in the design of liquid phononic crystals with hard inclusion.<br>Computational Mechanics, 2017, 60, 983-996.                                  | 4.0 | 29        |
| 38 | The artificial tree (AT) algorithm. Engineering Applications of Artificial Intelligence, 2017, 65, 99-110.  | 8.1 | 27        |
| 39 | Volumetric locking issue with uncertainty in the design of locally resonant acoustic metamaterials.<br>Computer Methods in Applied Mechanics and Engineering, 2017, 324, 128-148. | 6.6 | 50        |
| 40 | A faster and accurate explicit algorithm for quasiâ€harmonic dynamic problems. International Journal<br>for Numerical Methods in Engineering, 2016, 108, 839-864.                 | 2.8 | 10        |
| 41 | An exact solution to compute the band gap in phononic crystals. Computational Materials Science, 2016, 122, 72-85.  | 3.0 | 28        |
| 42 | Stability analysis of generalized mass formulation in dynamic heat transfer. Numerical Heat Transfer,<br>Part B: Fundamentals, 2016, 69, 287-311.                                 | 0.9 | 12        |
| 43 | Smoothed finite element method for topology optimization involving incompressible materials.<br>Engineering Optimization, 2016, 48, 2064-2089.                                    | 2.6 | 13        |
| 44 | A novel hybrid ES-FE-SEA for mid-frequency prediction of Transmission losses in complex acoustic systems. Applied Acoustics, 2016, 111, 198-204.                                  | 3.3 | 25        |
| 45 | Development of an efficient algorithm to analyze the elastic wave in acoustic metamaterials. Acta<br>Mechanica, 2016, 227, 3015-3030.   | 2.1 | 35        |
| 46 | A mass-redistributed finite element method (MR-FEM) for acoustic problems using triangular mesh.<br>Journal of Computational Physics, 2016, 323, 149-170.                         | 3.8 | 63        |
| 47 | 3D mass-redistributed finite element method in structural–acoustic interaction problems. Acta<br>Mechanica, 2016, 227, 857-879.   | 2.1 | 33        |
| 48 | A novel hybrid FSâ€FEM/SEA for the analysis of vibroâ€acoustic problems. International Journal for<br>Numerical Methods in Engineering, 2015, 102, 1815-1829.                     | 2.8 | 21        |
| 49 | A three-dimensional hybrid smoothed finite element method (H-SFEM) for nonlinear solid mechanics<br>problems. Acta Mechanica, 2015, 226, 4223-4245.                               | 2.1 | 21        |
| 50 | Acoustic simulation using α-FEM with a general approach for reducing dispersion error. Engineering<br>Analysis With Boundary Elements, 2015, 61, 241-253.                         | 3.7 | 24        |
| 51 | Numerical investigation of ES-FEM with various mass re-distribution for acoustic problems. Applied Acoustics, 2015, 89, 222-233.  | 3.3 | 22        |
| 52 | Hybrid smoothed finite element method for acoustic problems. Computer Methods in Applied<br>Mechanics and Engineering, 2015, 283, 664-688.  | 6.6 | 85        |
| 53 | An ultra-accurate hybrid smoothed finite element method for piezoelectric problem. Engineering Analysis With Boundary Elements, 2015, 50, 188-197.                                | 3.7 | 20        |
| 54 | MID-FREQUENCY ACOUSTIC ANALYSIS USING EDGE-BASED SMOOTHED TETRAHEDRON RADIALPOINT<br>INTERPOLATION METHODS. International Journal of Computational Methods, 2014, 11, 1350103.    | 1.3 | 19        |

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| 55 | A coupled ES-BEM and FM-BEM for structural acoustic problems. Noise Control Engineering Journal, 2014, 62, 196-209.   | 0.3 | 9         |
| 56 | Smoothed finite element method with exact solutions in heat transfer problems. International<br>Journal of Heat and Mass Transfer, 2014, 78, 1219-1231.   | 4.8 | 41        |
| 57 | A new hybrid smoothed FEM for static and free vibration analyses of Reissner–Mindlin Plates.<br>Computational Mechanics, 2014, 54, 865-890.   | 4.0 | 32        |
| 58 | An edge-based smoothed tetrahedron finite element method (ES-T-FEM) for 3D static and dynamic problems. Computational Mechanics, 2013, 52, 221-236.   | 4.0 | 83        |
| 59 | An edge-based smoothed tetrahedron finite element method (ES-T-FEM) for thermomechanical problems. International Journal of Heat and Mass Transfer, 2013, 66, 723-732.  | 4.8 | 41        |
| 60 | An ES-FEM for accurate analysis of 3D mid-frequency acoustics using tetrahedron mesh. Computers and Structures, 2012, 106-107, 125-134.   | 4.4 | 77        |
| 61 | A Novel Alpha Gradient Smoothing Method (αGSM) for Fluid Problems. Numerical Heat Transfer, Part B:<br>Fundamentals, 2012, 61, 204-228.   | 0.9 | 10        |
| 62 | Numerical modeling and simulation of pulsatile blood flow in rigid vessel using gradient smoothing method. Engineering Analysis With Boundary Elements, 2012, 36, 322-334.                                    | 3.7 | 14        |
| 63 | An efficient adaptive analysis procedure using the edge-based smoothed point interpolation method<br>(ES-PIM) for 2D and 3D problems. Engineering Analysis With Boundary Elements, 2012, 36, 1424-1443.       | 3.7 | 20        |
| 64 | A novel linearly-weighted gradient smoothing method (LWGSM) in the simulation of fluid dynamics problem. Computers and Fluids, 2011, 50, 104-119.   | 2.5 | 15        |
| 65 | A three-dimensional adaptive analysis using the meshfree node-based smoothed point interpolation method (NS-PIM). Engineering Analysis With Boundary Elements, 2011, 35, 1123-1135.                           | 3.7 | 36        |
| 66 | Dispersion error reduction for acoustic problems using the edgeâ€based smoothed finite element<br>method (ESâ€FEM). International Journal for Numerical Methods in Engineering, 2011, 86, 1322-1338.          | 2.8 | 63        |
| 67 | A coupled ES-FEM/BEM method for fluid–structure interaction problems. Engineering Analysis With<br>Boundary Elements, 2011, 35, 140-147.  | 3.7 | 64        |
| 68 | Coupled analysis of 3D structural–acoustic problems using the edge-based smoothed finite element<br>method/finite element method. Finite Elements in Analysis and Design, 2010, 46, 1114-1121.                | 3.2 | 51        |
| 69 | A coupled edge-/face-based smoothed finite element method for structural–acoustic problems.<br>Applied Acoustics, 2010, 71, 955-964.  | 3.3 | 49        |
| 70 | Dispersion free analysis of acoustic problems using the alpha finite element method. Computational<br>Mechanics, 2010, 46, 867-881.   | 4.0 | 38        |
| 71 | Modeling and simulation of bioheat transfer in the human eye using the 3D alpha finite element<br>method (αFEM). International Journal for Numerical Methods in Biomedical Engineering, 2010, 26,<br>955-976. | 2.1 | 43        |
| 72 | An efficient algorithm for phase change problem in tumor treatment using αFEM. International Journal of Thermal Sciences, 2010, 49, 1954-1967.  | 4.9 | 31        |

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| 73 | An edge-based smoothed finite element method (ES-FEM) for analyzing three-dimensional acoustic problems. Computer Methods in Applied Mechanics and Engineering, 2009, 199, 20-33. | 6.6 | 128       |