

Wenjing Ye

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,650
citations

279798

23
h-index

302126

39
g-index

67
all docs

67
docs citations

67
times ranked

2198
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene. <i>Nature Nanotechnology</i> , 2016, 11, 426-431. | 31.5 | 287 |
| 2 | Ultralow Electrical Percolation in Graphene Aerogel/Epoxy Composites. <i>Chemistry of Materials</i> , 2016, 28, 6731-6741. | 6.7 | 137 |
| 3 | On the squeeze-film damping of micro-resonators in the free-molecule regime. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 1726-1733. | 2.6 | 118 |
| 4 | Damage localization in plate-like structures using time-varying feature and one-dimensional convolutional neural network. <i>Mechanical Systems and Signal Processing</i> , 2021, 147, 107107. | 8.0 | 91 |
| 5 | Air damping in laterally oscillating microresonators: A numerical and experimental study. <i>Journal of Microelectromechanical Systems</i> , 2003, 12, 557-566. | 2.5 | 76 |
| 6 | A deep learning-based method for the design of microstructural materials. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 1417-1438. | 3.5 | 66 |
| 7 | Multifunctional elastic metasurface design with topology optimization. <i>Acta Materialia</i> , 2020, 185, 382-399. | 7.9 | 47 |
| 8 | Theoretical and Numerical Studies of Noncontinuum Gas-Phase Heat Conduction in Micro/Nano Devices. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2010, 57, 203-226. | 0.9 | 41 |
| 9 | Frequency-Coded Passive Multifunctional Elastic Metasurfaces. <i>Advanced Functional Materials</i> , 2020, 30, 2005285. | 14.9 | 41 |
| 10 | Multiple temperature kinetic model and its applications to micro-scale gas flows. <i>Computers and Fluids</i> , 2012, 67, 115-122. | 2.5 | 39 |
| 11 | A fast integral approach for drag force calculation due to oscillatory slip stokes flows. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 60, 1535-1567. | 2.8 | 37 |
| 12 | Octant flux splitting information preservation DSMC method for thermally driven flows. <i>Journal of Computational Physics</i> , 2007, 226, 2044-2062. | 3.8 | 34 |
| 13 | Rectification of Mobile Leidenfrost Droplets by Planar Ratchets. <i>Small</i> , 2020, 16, e1901751. | 10.0 | 32 |
| 14 | Accelerating gradient-based topology optimization design with dual-model artificial neural networks. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 1687-1707. | 3.5 | 32 |
| 15 | Momentum and mass fluxes in a gas confined between periodically structured surfaces at different temperatures. <i>Physical Review E</i> , 2011, 84, 016304. | 2.1 | 31 |
| 16 | Topology optimization design scheme for broadband non-resonant hyperbolic elastic metamaterials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 344, 819-836. | 6.6 | 31 |
| 17 | The impact of subcontinuum gas conduction on topography measurement sensitivity using heated atomic force microscope cantilevers. <i>Physics of Fluids</i> , 2005, 17, 100615. | 4.0 | 29 |
| 18 | Deep learning-based inverse method for layout design. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 527-536. | 3.5 | 29 |

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|----|---|-----|-----------|
| 19 | A new transformation technique for evaluating nearly singular integrals. <i>Computational Mechanics</i> , 2008, 42, 457-466. | 4.0 | 28 |
| 20 | Precorrected FFT accelerated BEM for large-scale transient elastodynamic analysis using frequency-domain approach. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 90, 116-134. | 2.8 | 28 |
| 21 | Negative Knudsen force on heated microbeams. <i>Physical Review E</i> , 2011, 84, 056316. | 2.1 | 27 |
| 22 | Fast BEM solution for coupled 3D electrostatic and linear elastic problems. <i>Engineering Analysis With Boundary Elements</i> , 2004, 28, 1175-1186. | 3.7 | 25 |
| 23 | A Flux-Corrected Phase-Field Method for Surface Diffusion. <i>Communications in Computational Physics</i> , 2017, 22, 422-440. | 1.7 | 25 |
| 24 | A physical-based gas-surface interaction model for rarefied gas flow simulation. <i>Journal of Computational Physics</i> , 2018, 352, 105-122. | 3.8 | 22 |
| 25 | An accelerated surface discretization-based BEM approach for non-homogeneous linear problems in 3-D complex domains. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 63, 1775-1795. | 2.8 | 21 |
| 26 | An Efficient Hybrid DSMC/MD Algorithm for Accurate Modeling of Micro Gas Flows. <i>Communications in Computational Physics</i> , 2014, 15, 246-264. | 1.7 | 21 |
| 27 | Performance evaluation of Maxwell and Cercignani-Lampis gas-wall interaction models in the modeling of thermally driven rarefied gas transport. <i>Physical Review E</i> , 2013, 88, 013009. | 2.1 | 18 |
| 28 | An adaptive artificial neural network-based generative design method for layout designs. <i>International Journal of Heat and Mass Transfer</i> , 2022, 184, 122313. | 4.8 | 17 |
| 29 | A Monte Carlo Simulation approach for the modeling of free-molecule squeeze-film damping of flexible microresonators. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 809-818. | 2.2 | 16 |
| 30 | A Grid-based integral approach for quasilinear problems. <i>Computational Mechanics</i> , 2006, 38, 113-118. | 4.0 | 13 |
| 31 | On the convergence of the panel method for potential problems with non-smooth domains. <i>Engineering Analysis With Boundary Elements</i> , 2009, 33, 837-844. | 3.7 | 13 |
| 32 | On the modified Reynolds equation model for the prediction of squeeze-film gas damping in a low vacuum. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 753-762. | 2.2 | 13 |
| 33 | A macromodel for squeeze-film air damping in the free-molecule regime. <i>Physics of Fluids</i> , 2010, 22, 012001. | 4.0 | 12 |
| 34 | Comparison of the convolution quadrature method and enhanced inverse FFT with application in elastodynamic boundary element method. <i>Computational Mechanics</i> , 2016, 57, 523-536. | 4.0 | 12 |
| 35 | Design of architected composite materials with an efficient, adaptive artificial neural network-based generative design method. <i>Acta Materialia</i> , 2022, 225, 117548. | 7.9 | 12 |
| 36 | Efficiency improvement of the frequency-domain BEM for rapid transient elastodynamic analysis. <i>Computational Mechanics</i> , 2013, 52, 903-912. | 4.0 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Numerical simulation of effective phase velocity and attenuation of shear elastic wave propagation in unidirectional composite materials. <i>Ultrasonics</i> , 2013, 53, 1200-1211. | 3.9 | 11 |
| 38 | Effective combination of modeling and experimental data with deep metric learning for guided wave-based damage localization in plates. <i>Mechanical Systems and Signal Processing</i> , 2022, 172, 108979. | 8.0 | 10 |
| 39 | Characterization of a Laterally Oscillating Microresonator Operating in the Nonlinear Region. <i>Micromachines</i> , 2016, 7, 132. | 2.9 | 9 |
| 40 | An interfering Monte Carlo method for partially coherent phonon transport in superlattices. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 534-543. | 4.8 | 9 |
| 41 | Semi-supervised node classification via graph learning convolutional neural network. <i>Applied Intelligence</i> , 2022, 52, 12724-12736. | 5.3 | 9 |
| 42 | Wavelet BEM for large-scale Stokes flows based on the direct integral formulation. <i>International Journal for Numerical Methods in Engineering</i> , 2011, 88, 693-714. | 2.8 | 8 |
| 43 | An efficient data generation method for ANN-based surrogate models. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, 1. | 3.5 | 8 |
| 44 | Shape-dependent orientation of thermophoretic forces in microsystems. <i>Physical Review E</i> , 2013, 88, 033020. | 2.1 | 7 |
| 45 | Theoretical Two-Dimensional Modeling of Gas Conduction Between Finite Parallel Plates in High Vacuum. <i>Journal of Heat Transfer</i> , 2012, 134, . | 2.1 | 6 |
| 46 | Investigation of wave interference effect in Si/Ge superlattices with interfering Monte Carlo method. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 270-278. | 4.8 | 6 |
| 47 | A sub- $\frac{1}{4}$ W micromachined magnetic compass. , 0, , . | | 4 |
| 48 | An explicit formula for the coherent SH waves' attenuation coefficient in random porous materials with low porosities. <i>Ultrasonics</i> , 2015, 62, 27-34. | 3.9 | 4 |
| 49 | An interlayer/intralayer coupling mechanism for the thermal characteristics of polycrystalline few-layer graphene. <i>Applied Physics Letters</i> , 2019, 114, 021902. | 3.3 | 4 |
| 50 | Knudsen torque: A rotational mechanism driven by thermal force. <i>Physical Review E</i> , 2014, 90, 033009. | 2.1 | 3 |
| 51 | Complexity and accuracy of the grid-based direct-volume integration BEM for quasilinear problems. <i>Engineering Analysis With Boundary Elements</i> , 2015, 51, 44-51. | 3.7 | 3 |
| 52 | A High-Order Level-Set Method with Enhanced Stability for Curvature Driven Flows and Surface Diffusion Motion. <i>Journal of Scientific Computing</i> , 2016, 69, 1316-1345. | 2.3 | 3 |
| 53 | Grid-based volume integration for elasticity. <i>Engineering Analysis With Boundary Elements</i> , 2016, 64, 237-246. | 3.7 | 3 |
| 54 | Gas Flow in Nano-Channels: Thermal Transpiration models with Application to a Si-Micromachined Knudsen Pump. , 2007, , . | | 2 |

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|----|---|-----|-----------|
| 55 | Grid-based volume integration for elasticity: Traction boundary integral equation. Engineering Fracture Mechanics, 2017, 176, 74-82. | 4.3 | 2 |
| 56 | Boundary integral analysis for non-homogeneous, incompressible Stokes flows. Advances in Computational Mathematics, 2019, 45, 1729-1734. | 1.6 | 2 |
| 57 | Molecular Dynamics Simulation of Squeeze-Film Damping in the Free-Molecule Regime. , 2008, , . | | 1 |
| 58 | Effect of oscillation mode on the free-molecule squeeze-film air damping. , 2010, , . | | 1 |
| 59 | A new iterative integral formulation for semilinear equations based on the generalized quasilinearization theory. Engineering Analysis With Boundary Elements, 2011, 35, 179-184. | 3.7 | 1 |
| 60 | An efficient adaptive frequency sampling scheme for large-scale transient boundary element analysis. Computers and Structures, 2016, 167, 86-95. | 4.4 | 1 |
| 61 | An efficient grid-based direct-volume integration BEM for 3D geometrically nonlinear elasticity. Computational Mechanics, 2018, 62, 603-616. | 4.0 | 1 |
| 62 | Air damping of microbeam resonators in a low vacuum. , 0, , . | | 0 |
| 63 | Evaluating Gas Damping in MEMS Using Fast Integral Equation Solvers. Computational and Experimental Methods in Structures, 2008, , 153-181. | 0.3 | 0 |
| 64 | Fast BEM Analysis of Porous Solids. , 2010, , . | | 0 |
| 65 | On the Maxwell gas-wall interaction model for micro/nano gas flows. , 2012, , . | | 0 |
| 66 | Knudsen torque on heated micro beams. , 2014, , . | | 0 |
| 67 | Numerical simulation of surface diffusion motion and its application in MEMS fabrication. Journal of Physics: Conference Series, 2019, 1303, 012024. | 0.4 | 0 |