Wenjing Ye

List of Publications by Year
in descending order

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	An adaptive artificial neural network-based generative design method for layout designs. International Journal of Heat and Mass Transfer, 2022, 184, 122313.	4.8	17
2	Design of architectured composite materials with an efficient, adaptive artificial neural network-based generative design method. Acta Materialia, 2022, 225, 117548.	7.9	12
3	Semi-supervised node classification via graph learning convolutional neural network. Applied Intelligence, 2022, 52, 12724-12736.	5.3	9
4	An efficient data generation method for ANN-based surrogate models. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	8
5	Effective combination of modeling and experimental data with deep metric learning for guided wave-based damage localization in plates. Mechanical Systems and Signal Processing, 2022, 172, 108979.	8.0	10
6	Damage localization in plate-like structures using time-varying feature and one-dimensional convolutional neural network. Mechanical Systems and Signal Processing, 2021, 147, 107107.	8.0	91
7	Accelerating gradient-based topology optimization design with dual-model artificial neural networks. Structural and Multidisciplinary Optimization, 2021, 63, 1687-1707.	3.5	32
8	Rectification of Mobile Leidenfrost Droplets by Planar Ratchets. Small, 2020, 16, e1901751.	10.0	32
9	Multifunctional elastic metasurface design with topology optimization. Acta Materialia, 2020, 185, 382-399.	7.9	47
10	A deep learning–based method for the design of microstructural materials. Structural and Multidisciplinary Optimization, 2020, 61, 1417-1438.	3.5	66
11	Frequency–Coded Passive Multifunctional Elastic Metasurfaces. Advanced Functional Materials, 2020, 30, 2005285.	14.9	41
12	Boundary integral analysis for non-homogeneous, incompressible Stokes flows. Advances in Computational Mathematics, 2019, 45, 1729-1734.	1.6	2
13	Numerical simulation of surface diffusion motion and its application in MEMS fabrication. Journal of Physics: Conference Series, 2019, 1303, 012024.	0.4	0
14	Deep learning–based inverse method for layout design. Structural and Multidisciplinary Optimization, 2019, 60, 527-536.	3.5	29
15	Investigation of wave interference effect in Si/Ge superlattices with interfering Monte Carlo method. International Journal of Heat and Mass Transfer, 2019, 128, 270-278.	4.8	6
16	An interlayer/intralayer coupling mechanism for the thermal characteristics of polycrystalline few-layer graphene. Applied Physics Letters, 2019, 114, 021902.	3.3	4
17	Topology optimization design scheme for broadband non-resonant hyperbolic elastic metamaterials. Computer Methods in Applied Mechanics and Engineering, 2019, 344, 819-836.	6.6	31
18	A physical-based gas–surface interaction model for rarefied gas flow simulation. Journal of Computational Physics, 2018, 352, 105-122.	3.8	22

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19	An efficient grid-based direct-volume integration BEM for 3D geometrically nonlinear elasticity. Computational Mechanics, 2018, 62, 603-616.	4.0	1
20	Grid-based volume integration for elasticity: Traction boundary integral equation. Engineering Fracture Mechanics, 2017, 176, 74-82.	4.3	2
21	An interfering Monte Carlo method for partially coherent phonon transport in superlattices. International Journal of Heat and Mass Transfer, 2017, 107, 534-543.	4.8	9
22	A Flux-Corrected Phase-Field Method for Surface Diffusion. Communications in Computational Physics, 2017, 22, 422-440.	1.7	25
23	Characterization of a Laterally Oscillating Microresonator Operating in the Nonlinear Region. Micromachines, 2016, 7, 132.	2.9	9
24	Ultralow Electrical Percolation in Graphene Aerogel/Epoxy Composites. Chemistry of Materials, 2016, 28, 6731-6741.	6.7	137
25	A High-Order Level-Set Method with Enhanced Stability for Curvature Driven Flows and Surface Diffusion Motion. Journal of Scientific Computing, 2016, 69, 1316-1345.	2.3	3
26	An efficient adaptive frequency sampling scheme for large-scale transient boundary element analysis. Computers and Structures, 2016, 167, 86-95.	4.4	1
27	Grid-based volume integration for elasticity. Engineering Analysis With Boundary Elements, 2016, 64, 237-246.	3.7	3
28	Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene. Nature Nanotechnology, 2016, 11, 426-431.	31.5	287
29	Comparison of the convolution quadrature method and enhanced inverse FFT with application in elastodynamic boundary element method. Computational Mechanics, 2016, 57, 523-536.	4.0	12
30	An explicit formula for the coherent SH waves' attenuation coefficient in random porous materials with low porosities. Ultrasonics, 2015, 62, 27-34.	3.9	4
31	Complexity and accuracy of the grid-based direct-volume integration BEM for quasilinear problems. Engineering Analysis With Boundary Elements, 2015, 51, 44-51.	3.7	3
32	Knudsen torque on heated micro beams. , 2014, , .		0
33	Knudsen torque: A rotational mechanism driven by thermal force. Physical Review E, 2014, 90, 033009.	2.1	3
34	An Efficient Hybrid DSMC/MD Algorithm for Accurate Modeling of Micro Gas Flows. Communications in Computational Physics, 2014, 15, 246-264.	1.7	21
35	Efficiency improvement of the frequency-domain BEM for rapid transient elastodynamic analysis. Computational Mechanics, 2013, 52, 903-912.	4.0	11
36	Numerical simulation of effective phase velocity and attenuation of shear elastic wave propagation in unidirectional composite materials. Ultrasonics, 2013, 53, 1200-1211.	3.9	11

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37	Shape-dependent orientation of thermophoretic forces in microsystems. Physical Review E, 2013, 88, 033020.	2.1	7
38	Performance evaluation of Maxwell and Cercignani-Lampis gas-wall interaction models in the modeling of thermally driven rarefied gas transport. Physical Review E, 2013, 88, 013009.	2.1	18
39	Theoretical Two-Dimensional Modeling of Gas Conduction Between Finite Parallel Plates in High Vacuum. Journal of Heat Transfer, 2012, 134, .	2.1	6
40	On the Maxwell gas-wall interaction model for micro/nano gas flows. , 2012, , .		0
41	Multiple temperature kinetic model and its applications to micro-scale gas flows. Computers and Fluids, 2012, 67, 115-122.	2.5	39
42	Precorrected FFT accelerated BEM for largeâ€scale transient elastodynamic analysis using frequencyâ€domain approach. International Journal for Numerical Methods in Engineering, 2012, 90, 116-134.	2.8	28
43	Momentum and mass fluxes in a gas confined between periodically structured surfaces at different temperatures. Physical Review E, 2011, 84, 016304.	2.1	31
44	On the modified Reynolds equation model for the prediction of squeeze-film gas damping in a low vacuum. Microfluidics and Nanofluidics, 2011, 11, 753-762.	2.2	13
45	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
46	Wavelet BEM for largeâ€scale Stokes flows based on the direct integral formulation. International Journal for Numerical Methods in Engineering, 2011, 88, 693-714.	2.8	8
47	Negative Knudsen force on heated microbeams. Physical Review E, 2011, 84, 056316.	2.1	27
48	Fast BEM Analysis of Porous Solids. , 2010, , .		0
49	A Monte Carlo Simulation approach for the modeling of free-molecule squeeze-film damping of flexible microresonators. Microfluidics and Nanofluidics, 2010, 9, 809-818.	2.2	16
50	Effect of oscillation mode on the free-molecule squeeze-film air damping. , 2010, , .		1
51	A macromodel for squeeze-film air damping in the free-molecule regime. Physics of Fluids, 2010, 22, 012001.	4.0	12
52	Theoretical and Numerical Studies of Noncontinuum Gas-Phase Heat Conduction in Micro/Nano Devices. Numerical Heat Transfer, Part B: Fundamentals, 2010, 57, 203-226.	0.9	41
53	On the convergence of the panel method for potential problems with non-smooth domains. Engineering Analysis With Boundary Elements, 2009, 33, 837-844.	3.7	13
54	A new transformation technique for evaluating nearly singular integrals. Computational Mechanics, 2008, 42, 457-466.	4.0	28

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55	Molecular Dynamics Simulation of Squeeze-Film Damping in the Free-Molecule Regime. , 2008, , .		1
56	Evaluating Gas Damping in MEMS Using Fast Integral Equation Solvers. Computational and Experimental Methods in Structures, 2008, , 153-181.	0.3	0
57	Gas Flowin Nano-Channels: Thermal Transpirationmodelswith Application to a Si-Micromachinedknudsen Pump. , 2007, , .		2
58	Octant flux splitting information preservation DSMC method for thermally driven flows. Journal of Computational Physics, 2007, 226, 2044-2062.	3.8	34
59	A Grid-based integral approach for quasilinear problems. Computational Mechanics, 2006, 38, 113-118.	4.0	13
60	An accelerated surface discretization-based BEM approach for non-homogeneous linear problems in 3-D complex domains. International Journal for Numerical Methods in Engineering, 2005, 63, 1775-1795.	2.8	21
61	The impact of subcontinuum gas conduction on topography measurement sensitivity using heated atomic force microscope cantilevers. Physics of Fluids, 2005, 17, 100615.	4.0	29
62	A fast integral approach for drag force calculation due to oscillatory slip stokes flows. International Journal for Numerical Methods in Engineering, 2004, 60, 1535-1567.	2.8	37
63	Fast BEM solution for coupled 3D electrostatic and linear elastic problems. Engineering Analysis With Boundary Elements, 2004, 28, 1175-1186.	3.7	25
64	On the squeeze-film damping of micro-resonators in the free-molecule regime. Journal of Micromechanics and Microengineering, 2004, 14, 1726-1733.	2.6	118
65	Air damping in laterally oscillating microresonators: A numerical and experimental study. Journal of Microelectromechanical Systems, 2003, 12, 557-566.	2.5	76
66	A sub-Î¼W micromachined magnetic compass. , 0, , .		4
67	Air damping of microbeam rsonators in a low vacuum. , 0, , .		0