

Hai-Fei Zhan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

1,327
citations

22
h-index

32
g-index

107
ext. papers

1,661
ext. citations

5.4
avg, IF

5.1
L-index

#	Paper	IF	Citations
97	A general Neural Particle Method for hydrodynamics modeling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 393, 114740	5.7	3
96	Atomistic Insights on the Rheological Property of Polycaprolactone Composites with the Addition of Graphene (Adv. Mater. Technol. 4/2022). <i>Advanced Materials Technologies</i> , 2022 , 7, 2270015	6.8	
95	One-step plasma electrolytic oxidation with Graphene oxide for Ultra-low porosity Corrosion-resistant TiO ₂ coatings. <i>Applied Surface Science</i> , 2022 , 594, 153477	6.7	0
94	Atomistic Simulations of the Permeability and Dynamic Transportation Characteristics of Diamond Nanochannels. <i>Nanomaterials</i> , 2022 , 12, 1785	5.4	0
93	Mechanical Properties of a Single-Layer Diamane under Tension and Bending. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 915-922	3.8	8
92	Effective Enhancement of a Carbon Nanothread on the Mechanical Properties of the Polyethylene Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 5781-5792	3.8	3
91	Vibrational characteristics of rotating soft cylinders. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	0
90	Damage and self-healing characteristics of monolayer graphene enhanced Cu under ballistic impact. <i>Mechanics of Materials</i> , 2021 , 155, 103736	3.3	3
89	Multiscale exploit the role of copper on the burn resistant behavior of Ti-Cu alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 863, 158639	5.7	2
88	Exceptional Deformability of Wurtzite Zinc Oxide Nanowires with Growth Axial Stacking Faults. <i>Nano Letters</i> , 2021 , 21, 4327-4334	11.5	0
87	Impacts from the stacking morphology on the tensile performance of double-walled carbon nanotube bundles. <i>Carbon</i> , 2021 , 178, 345-354	10.4	2
86	Mechanical Properties of Single-Layer Diamond Reinforced Poly(vinyl alcohol) Nanocomposites through Atomistic Simulation. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2100292	3.9	1
85	Carbon nanothreads enable remarkable enhancement in the thermal conductivity of polyethylene. <i>Nanoscale</i> , 2021 , 13, 6934-6943	7.7	2
84	3D Printed Multi-Functional Scaffolds Based on Poly(ϵ -Caprolactone) and Hydroxyapatite Composites. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
83	A data-driven smoothed particle hydrodynamics method for fluids. <i>Engineering Analysis With Boundary Elements</i> , 2021 , 132, 12-32	2.6	2
82	A bio-inspired B-Spline Offset Feature for structural topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 386, 114081	5.7	1
81	Atomic Investigation on the Facet-Dependent Melting of Ceramic Nanostructures via In Situ Electron Irradiation. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000288	4.6	0

80	A new data-driven topology optimization framework for structural optimization. <i>Computers and Structures</i> , 2020 , 239, 106310	4.5	10
79	Effect of Fe-doping on bending elastic properties of single-crystalline rutile TiO ₂ nanowires. <i>Nanoscale Advances</i> , 2020 , 2, 2800-2807	5.1	1
78	Low interfacial thermal resistance between crossed ultra-thin carbon nanothreads. <i>Carbon</i> , 2020 , 165, 216-224	10.4	14
77	First-principles investigation of mechanical, electronic and optical properties of H-, F- and Cl-diamane. <i>Applied Surface Science</i> , 2020 , 528, 147035	6.7	22
76	Single layer diamond - A new ultrathin 2D carbon nanostructure for mechanical resonator. <i>Carbon</i> , 2020 , 161, 809-815	10.4	21
75	High density mechanical energy storage with carbon nanothread bundle. <i>Nature Communications</i> , 2020 , 11, 1905	17.4	21
74	Graphdiyne family-tunable solution to shock resistance. <i>Materials Research Express</i> , 2020 , 7, 115602	1.7	2
73	Damage characteristics of aluminum nanorod under hypervelocity impact. <i>Computational Materials Science</i> , 2020 , 174, 109490	3.2	6
72	Development of Mechanically Enhanced Polycaprolactone Composites by a Functionalized Titanate Nanofiller for Melt Electrowriting in 3D Printing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47993-48006	9.5	8
71	Morphological evolution of Ti ₂ Cu in Ti-13Cu-Al alloy after cooling from semi-solid state. <i>Journal of Alloys and Compounds</i> , 2020 , 848, 156639	5.7	2
70	Molecular Dynamics Simulation of Chiral Carbon Nanothread Bundles for Nanofiber Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10218-10225	5.6	7
69	Thermal Transport in 3D Nanostructures. <i>Advanced Functional Materials</i> , 2020 , 30, 1903841	15.6	54
68	Atomistic Mechanisms of Ultralarge Bending Deformation of Single-Crystalline TiO ₂ Nanowires. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11174-11182	3.8	2
67	How Gaseous Environment Influences a Carbon Nanotube-Based Mechanical Resonator. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25925-25933	3.8	2
66	General existence of flexural mode doublets in nanowires targeting vectorial sensing applications. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 4136-4144	3.6	1
65	Atomic-scale investigation on the ultra-large bending behaviours of layered sodium titanate nanowires. <i>Nanoscale</i> , 2019 , 11, 11847-11855	7.7	5
64	Graphynes: an alternative lightweight solution for shock protection. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 1588-1595	3	4
63	A novel super-elastic carbon nanofiber with cup-stacked carbon nanocones and a screw dislocation. <i>Carbon</i> , 2019 , 154, 98-107	10.4	10

62	Atomic-Scale Study on the Ultralarge Bending Behaviors of TiO-B/Anatase Dual-Phase Nanowires. <i>Nano Letters</i> , 2019 , 19, 7742-7749	11.5	9
61	Role of Nitrogen on the Mechanical Properties of the Novel Carbon Nitride Nanothreads. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 28977-28984	3.8	8
60	Isothermal Diffusion Behavior and Surface Performance of Cu/Ni Coating on TC4 Alloy. <i>Materials</i> , 2019 , 12,	3.5	3
59	Thermal conduction of one-dimensional carbon nanomaterials and nanoarchitectures. <i>Chinese Physics B</i> , 2018 , 27, 038103	1.2	10
58	In situ mechanical resonance behaviour of pristine and defective zinc blende GaAs nanowires. <i>Nanoscale</i> , 2018 , 10, 2588-2595	7.7	12
57	Graphene Helicoid: Distinct Properties Promote Application of Graphene Related Materials in Thermal Management. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7605-7612	3.8	18
56	Underlying burning resistant mechanisms for titanium alloy. <i>Materials and Design</i> , 2018 , 156, 588-595	8.1	20
55	Breakdown of Hooke's law at the nanoscale - 2D material-based nanosprings. <i>Nanoscale</i> , 2018 , 10, 18961-18968	7.1	10
54	Atypical Defect Motions in Brittle Layered Sodium Titanate Nanowires. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6052-6059	6.4	4
53	Numerical study on the perforation of steel plates by multiple projectiles. <i>Engineering Computations</i> , 2018 , 35, 2629-2651	1.4	
52	Nanojoint Formation between Ceramic Titanate Nanowires and Spot Melting of Metal Nanowires with Electron Beam. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9143-9151	9.5	5
51	Unexpected dynamic recrystallization behavior of Ti-7Cu alloy in semi-solid state. <i>Journal of Alloys and Compounds</i> , 2017 , 712, 468-476	5.7	6
50	Graphene helicoid as novel nanospring. <i>Carbon</i> , 2017 , 120, 258-264	10.4	32
49	Mechanical Properties of Penta-Graphene Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9642-9647	9.4	24
48	Analytical solution to bending and contact strength of spiral bevel gears in consideration of friction. <i>International Journal of Mechanical Sciences</i> , 2017 , 128-129, 475-485	5.5	19
47	The best features of diamond nanothread for nanofibre applications. <i>Nature Communications</i> , 2017 , 8, 14863	17.4	43
46	Thermal Conductivity of Diamond Nanothread 2017 , 185-204		3
45	A multiscale evaluation of the surface integrity in boring trepanning association deep hole drilling. <i>International Journal of Machine Tools and Manufacture</i> , 2017 , 123, 48-56	9.4	22

44	Graphene and Carbon Nanotube Hybrid Structure: A Review. <i>Procedia IUTAM</i> , 2017 , 21, 94-101		41
43	A New Particle Generation Method for Arbitrary 2D Geometries in SPH Modeling. <i>International Journal of Computational Methods</i> , 2017 , 14, 1750023	1.1	4
42	Modeling heat transfer during friction stir welding using a meshless particle method. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 288-300	4.9	31
41	A general approach to tune the vibration properties of the mounting system in the high-speed and heavy-duty engine. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 247-257	2	5
40	The morphology and temperature dependent tensile properties of diamond nanothreads. <i>Carbon</i> , 2016 , 107, 304-309	10.4	37
39	A new type of high-order elements based on the mesh-free interpolations. <i>Engineering Analysis With Boundary Elements</i> , 2016 , 65, 63-71	2.6	1
38	Thermal conductivity of a new carbon nanotube analog: The diamond nanothread. <i>Carbon</i> , 2016 , 98, 232-237	10.4	55
37	Tailorable Burning Behavior of Ti14 Alloy by Controlling Semi-Solid Forging Temperature. <i>Materials</i> , 2016 , 9,	3.5	9
36	Diamond Nanothread as a New Reinforcement for Nanocomposites. <i>Advanced Functional Materials</i> , 2016 , 26, 5279-5283	15.6	49
35	Failure mechanism of monolayer graphene under hypervelocity impact of spherical projectile. <i>Scientific Reports</i> , 2016 , 6, 33139	4.9	17
34	From brittle to ductile: a structure dependent ductility of diamond nanothread. <i>Nanoscale</i> , 2016 , 8, 11177-11184	7.84	65
33	Tuning the resonance properties of 2D carbon nanotube networks towards a mechanical resonator. <i>Nanotechnology</i> , 2015 , 26, 315501	3.4	5
32	Two-dimensional graphene heterojunctions: The tunable mechanical properties. <i>Carbon</i> , 2015 , 95, 1061-1068	10.4	12
31	Graphene with Patterned Fluorination: Morphology Modulation and Implications. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27562-27568	3.8	10
30	Formation of carbon nanoscrolls from graphene nanoribbons: A molecular dynamics study. <i>Computational Materials Science</i> , 2015 , 96, 300-305	3.2	27
29	Carbon nanotube-based super nanotubes: tunable thermal conductivity in three dimensions. <i>RSC Advances</i> , 2015 , 5, 48164-48168	3.7	7
28	Effect of Covalent Functionalization on Thermal Transport across Graphene-Polymer Interfaces. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 12731-12738	3.8	92
27	Suppressed Thermal Conductivity of Bilayer Graphene with Vacancy-Initiated Linkages. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1748-1752	3.8	24

26	Mechanical bending properties of sodium titanate (Na ₂ Ti ₃ O ₇) nanowires. <i>RSC Advances</i> , 2014 , 4, 56970-56976	3.7	16
25	Tailoring the Resonance of Bilayer Graphene Sheets by Interlayer sp ³ Bonds. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 732-739	3.8	13
24	Graphene ripples generated by grain boundaries in highly ordered pyrolytic graphite. <i>Carbon</i> , 2014 , 68, 330-336	10.4	28
23	Bending properties of Ag nanowires with pre-existing surface defects. <i>Computational Materials Science</i> , 2014 , 81, 45-51	3.2	10
22	Structure-mediated thermal transport of monolayer graphene allotropes nanoribbons. <i>Carbon</i> , 2014 , 77, 416-423	10.4	31
21	Tensile properties of a boron/nitrogen-doped carbon nanotube-graphene hybrid structure. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 329-36	3	20
20	Resonance of graphene nanoribbons doped with nitrogen and boron: a molecular dynamics study. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 717-25	3	5
19	Tuneable Resonance Properties of Graphene by Nitrogen-Dopant. <i>Applied Mechanics and Materials</i> , 2014 , 553, 3-9	0.3	4
18	Thermal conductivity of Si nanowires with faulted stacking layers. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 015303	3	19
17	Thermal conductivity of configurable two-dimensional carbon nanotube architecture and strain modulation. <i>Applied Physics Letters</i> , 2014 , 105, 153105	3.4	24
16	Impact of the Piston Secondary Motion on its Slap Force. <i>Applied Mechanics and Materials</i> , 2014 , 553, 582-587	0.3	
15	Tensile Properties of Si Nanowires with Faulted Stacking Layers. <i>Science of Advanced Materials</i> , 2014 , 6, 1489-1492	2.3	2
14	TENSILE PROPERTIES OF GRAPHENE-NANOTUBE HYBRID STRUCTURES: A MOLECULAR DYNAMICS STUDY. <i>International Journal of Computational Materials Science and Engineering</i> , 2013 , 02, 1350020	0.3	7
13	Beat phenomena in metal nanowires, and their implications for resonance-based elastic property measurements. <i>Nanoscale</i> , 2012 , 4, 6779-85	7.7	28
12	Theoretical and numerical investigation of bending properties of Cu nanowires. <i>Computational Materials Science</i> , 2012 , 55, 73-80	3.2	27
11	Surface effects on the dual-mode vibration of <1 1 0> silver nanowires with different cross-sections. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 465304	3	13
10	Influence of pre-existing surface defects on the vibrational properties of Ag nanowires 2012 ,		1
9	A fundamental numerical and theoretical study for the vibrational properties of nanowires. <i>Journal of Applied Physics</i> , 2012 , 111, 124303	2.5	31

8	Modified beam theories for bending properties of nanowires considering surface/intrinsic effects and axial extension effect. <i>Journal of Applied Physics</i> , 2012 , 111, 084305	2.5	16
7	MD INVESTIGATIONS FOR MECHANICAL PROPERTIES OF COPPER NANOWIRES WITH AND WITHOUT SURFACE DEFECTS. <i>International Journal of Computational Methods</i> , 2012 , 09, 1240003	1.1	6
6	Numerical investigation of mechanical properties of nanowires: a review. <i>Interaction and Multiscale Mechanics</i> , 2012 , 5, 115-129		3
5	Numerical exploration of plastic deformation mechanisms of copper nanowires with surface defects. <i>Computational Materials Science</i> , 2011 , 50, 3425-3430	3.2	30
4	Numerical Exploration of the Defect Effect on Mechanical Properties of Nanowires under Torsion. <i>Advanced Materials Research</i> , 2011 , 335-336, 498-501	0.5	8
3	Exploration of the Defect Effect on the Mechanical Properties of Different Orientated Nanowires. <i>Advanced Materials Research</i> , 2011 , 328-330, 1239-1244	0.5	0
2	Advanced Numerical Characterization of Mono-Crystalline Copper with Defects. <i>Advanced Science Letters</i> , 2011 , 4, 1293-1301	0.1	13
1	Atomistic Insights on the Rheological Property of Polycaprolactone Composites with the Addition of Graphene. <i>Advanced Materials Technologies</i> , 2100507	6.8	1