

# Huiming Ning

## List of Publications by Year in descending order

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73  
papers

2,397  
citations

186265

28  
h-index

214800

47  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2921  
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain effects on the interfacial thermal conductance of graphene/h-BN heterostructure. <i>Nano Materials Science</i> , 2022, 4, 227-234.	8.8	5
2	Recent advances in the preparation of PVDF-based piezoelectric materials. <i>Nanotechnology Reviews</i> , 2022, 11, 1386-1407.	5.8	50
3	Wearable Multifunctional Graphene-Based Aerogel/Spacer Fabric Composites for Sensing and Impact Protection. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	6
4	Multifunctional Ionic Skin with Sensing, UV-Filtering, Water-Retaining, and Anti-Freezing Capabilities. <i>Advanced Functional Materials</i> , 2021, 31, 2011176.	14.9	198
5	Interlaminar mechanical properties of nano- and short-aramid fiber reinforced glass fiber-aluminum laminates: a comparative study. <i>Journal of Materials Science</i> , 2021, 56, 12198-12211.	3.7	8
6	Environmentally-Friendly and Multifunctional Graphene-Silk Fabric Strain Sensor for Human-Motion Detection. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901507.	3.7	65
7	1-Pyrenemethanol derived nanocrystal reinforced graphene films with high thermal conductivity and flexibility. <i>Nanotechnology</i> , 2020, 31, 065602.	2.6	8
8	Ultratough reduced graphene oxide composite films synergistically toughened and reinforced by polydopamine wrapped carbon nanotubes. <i>Carbon</i> , 2020, 159, 422-431.	10.3	25
9	Design of elastic metasurfaces for controlling shear vertical waves using uniaxial scaling transformation method. <i>International Journal of Mechanical Sciences</i> , 2020, 169, 105335.	6.7	13
10	Graphene/Graphitized Polydopamine/Carbon Nanotube All-Carbon Ternary Composite Films with Improved Mechanical Properties and Through-Plane Thermal Conductivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 57391-57400.	8.0	31
11	A comprehensive review of characterization and simulation methods for thermo-stamping of 2D woven fabric reinforced thermoplastics. <i>Composites Part B: Engineering</i> , 2020, 203, 108462.	12.0	20
12	Ultrasensitive MWCNT/PDMS composite strain sensor fabricated by laser ablation process. <i>Composites Science and Technology</i> , 2020, 192, 108105.	7.8	69
13	Flexible electrochemical energy storage: The role of composite materials. <i>Composites Science and Technology</i> , 2020, 192, 108102.	7.8	82
14	Human Motion Detection: Environmentally-Friendly and Multifunctional Graphene-Silk Fabric Strain Sensor for Human-Motion Detection (Adv. Mater. Interfaces 1/2020). <i>Advanced Materials Interfaces</i> , 2020, 7, 2070006.	3.7	2
15	Synergistic Delamination Toughening of Glass Fiber-Aluminum Laminates by Surface Treatment and Graphene Oxide Interleaf. <i>Nanoscale Research Letters</i> , 2020, 15, 74.	5.7	12
16	Giant piezoresistive gauge factor in vein-membrane/graphene sensors with a wide linear working range. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16957-16966.	5.5	8
17	Influences of preparation process on electrical conductivity and thermal expansion coefficient of epoxy/graphene nanocomposites. <i>Materials Research Express</i> , 2019, 6, 116318.	1.6	1
18	Highly Compressible and Sensitive Pressure Sensor under Large Strain Based on 3D Porous Reduced Graphene Oxide Fiber Fabrics in Wide Compression Strains. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 37051-37059.	8.0	74

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19	Enhancement of thermal energy transport across the graphene/h-BN heterostructure interface. <i>Nanoscale</i> , 2019, 11, 4067-4072.	5.6	38
20	An Inverse Approach of Damage Identification Using Lamb Wave Tomography. <i>Sensors</i> , 2019, 19, 2180.	3.8	13
21	Multi-objective robust design optimization of a two-dimensional tri-axial braided hollow pillar using an evolutionary algorithm. <i>Composite Structures</i> , 2019, 220, 105-113.	5.8	4
22	Anisotropic and asymmetric deformation mechanisms of nanolaminated graphene/Cu composites. <i>Nano Materials Science</i> , 2019, 1, 121-130.	8.8	18
23	Fabrication of bagel-like graphene aerogels and its application in pressure sensors. <i>Smart Materials and Structures</i> , 2019, 28, 055020.	3.5	8
24	Carbonized polydopamine nanoparticle reinforced graphene films with superior thermal conductivity. <i>Carbon</i> , 2019, 149, 173-180.	10.3	55
25	Preparing carbon black/graphene/PVDF-HFP hybrid composite films of high piezoelectricity for energy harvesting technology. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 121, 223-231.	7.6	65
26	A three-layer mechanical model for the analysis of effects of pia matter on cortical folding. <i>Engineering Computations</i> , 2019, 36, 2634-2650.	1.4	4
27	A mixed-form solution to the macroscopic elastic properties of 2D triaxially braided composites based on a concentric cylinder model and the rule of mixture. <i>Composites Part B: Engineering</i> , 2019, 156, 355-367.	12.0	15
28	Synergistic effect of CB and MWCNT on the strain-induced DC and AC electrical properties of PVDF-HFP composites. <i>Carbon</i> , 2019, 144, 509-518.	10.3	21
29	Preparation and characterization of graphene oxide/silk fibroin hybrid aerogel for dye and heavy metal adsorption. <i>Composites Part B: Engineering</i> , 2019, 163, 716-722.	12.0	98
30	Power generation by PVDF-TrFE/graphene nanocomposite films. <i>Composites Part B: Engineering</i> , 2019, 164, 703-709.	12.0	48
31	Improvement of the piezoelectricity of PVDF-TrFE by carbon black. <i>Materials Research Express</i> , 2019, 6, 025509.	1.6	3
32	Enhancement of energy harvesting capability using PVDF/GFRP-laminated films. <i>Journal of Sandwich Structures and Materials</i> , 2019, 21, 2548-2562.	3.5	5
33	Ultimate strength prediction of two-dimensional tri-axial braided composites based on an analytical laminate model. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 917-929.	3.1	8
34	Molecular dynamics study of strengthening mechanism of nanolaminated graphene/Cu composites under compression. <i>Scientific Reports</i> , 2018, 8, 3089.	3.3	99
35	Molecular dynamics simulations of thermal expansion properties of single layer graphene sheets. <i>Molecular Simulation</i> , 2018, 44, 34-39.	2.0	6
36	Understanding the mechanical properties and deformation behavior of 3-D graphene-carbon nanotube structures. <i>Materials and Design</i> , 2018, 160, 377-383.	7.0	17

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37	Investigation on the interfacial mechanical properties of hybrid graphene-carbon nanotube/polymer nanocomposites. Carbon, 2017, 115, 694-700.	10.3	68
38	Mode-II interlaminar fracture toughness of GFRP/Al laminates improved by surface modified VGCF interleaves. Composites Part B: Engineering, 2017, 114, 365-372.	12.0	19
39	Construction of 3D CoO Quantum Dots/Graphene Hydrogels as Binder-Free Electrodes for Ultra-high Rate Energy Storage Applications. Electrochimica Acta, 2017, 243, 152-161.	5.2	32
40	Investigation of thermal energy transport interface of hybrid graphene-carbon nanotube/polyethylene nanocomposites. Scientific Reports, 2017, 7, 14700.	3.3	18
41	Development of Three-Dimensional GSM-CFD Solver for Compressible Flows. International Journal of Computational Methods, 2017, 14, 1750037.	1.3	2
42	Investigation of interfacial mechanical properties of graphene-polymer nanocomposites. Molecular Simulation, 2016, 42, 1165-1170.	2.0	14
43	Conductive PVDF-HFP/CNT composites for strain sensing. Functional Materials Letters, 2016, 09, 1650024.	1.2	6
44	Strengthening effects of twin interface in Cu/Ni multilayer thin films – A molecular dynamics study. Materials and Design, 2016, 111, 1-8.	7.0	79
45	The interfacial mechanical properties of functionalized graphene-polymer nanocomposites. RSC Advances, 2016, 6, 66658-66664.	3.6	50
46	Fast Bayesian approach to model calibration of vehicle occupant restraint systems. International Journal of Crashworthiness, 2016, 21, 1-8.	1.9	3
47	Highly sensitive humidity sensors made from composites of HEC filled by carbon nanofillers. Materials Technology, 2015, 30, 134-139.	3.0	4
48	Interlaminar mechanical properties of carbon fiber reinforced plastic laminates modified with graphene oxide interleaf. Carbon, 2015, 91, 224-233.	10.3	123
49	Investigation on mode-II interface fracture toughness of CFRP/Al laminates toughened by VGCF interleaves. Journal of Materials Science, 2015, 50, 1915-1923.	3.7	15
50	Molecular dynamics simulation on interfacial mechanical properties of polymer nanocomposites with wrinkled graphene. Computational Materials Science, 2015, 108, 160-167.	3.0	125
51	Effects of initial crystallization process on piezoelectricity of PVDF-HFP films. Journal of Polymer Engineering, 2015, 35, 451-461.	1.4	4
52	Monitoring of Local Plasticity Using Lamb Waves. Advances in Structural Engineering, 2015, 18, 339-351.	2.4	1
53	Toughening effect of CB-epoxy interleaf on the interlaminar mechanical properties of CFRP laminates. Composites Part A: Applied Science and Manufacturing, 2015, 68, 226-234.	7.6	40
54	Experimental and numerical study on the improvement of interlaminar mechanical properties of Al/CFRP laminates. Journal of Materials Processing Technology, 2015, 216, 79-88.	6.3	43

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55	An Efficient Algorithm Embedded in an Ultrasonic Visualization Technique for Damage Inspection Using the AE Sensor Excitation Method. <i>Sensors</i> , 2014, 14, 20439-20450.	3.8	6
56	Damage Evaluation Based on a Wave Energy Flow Map Using Multiple PZT Sensors. <i>Sensors</i> , 2014, 14, 1902-1917.	3.8	19
57	Improved energy harvesting capability of poly(vinylidene fluoride) films modified by reduced graphene oxide. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 1813-1824.	2.5	35
58	Improvement of the mode II interface fracture toughness of glass fiber reinforced plastics/aluminum laminates through vapor grown carbon fiber interleaves. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 035004.	6.1	7
59	Tomographic reconstruction of damage images in hollow cylinders using Lamb waves. <i>Ultrasonics</i> , 2014, 54, 2015-2023.	3.9	18
60	Improvement of mode- $\text{II}$ interface mechanical properties of Al/GFRP composite laminates by VGCF. <i>Transactions of the JSME (in Japanese)</i> , 2014, 80, SMM0021-SMM0021.	0.2	0
61	Ultrasensitive strain sensors made from metal-coated carbon nanofiller/epoxy composites. <i>Carbon</i> , 2013, 51, 202-212.	10.3	107
62	Enhancement of PVDF's piezoelectricity by VGCF and MWNT. <i>Advanced Composite Materials</i> , 2013, 22, 49-63.	1.9	31
63	Multi-scale numerical simulations of thermal expansion properties of CNT-reinforced nanocomposites. <i>Nanoscale Research Letters</i> , 2013, 8, 15.	5.7	32
64	Ultrasensitive strain sensors of multiwalled carbon nanotube/epoxy nanocomposite using dielectric loss tangent. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	27
65	Improved piezoelectric properties of poly(vinylidene fluoride) nanocomposites containing multi-walled carbon nanotubes. <i>Smart Materials and Structures</i> , 2013, 22, 065011.	3.5	18
66	Temperature-dependent piezoresistivity in an MWCNT/epoxy nanocomposite temperature sensor with ultrahigh performance. <i>Nanotechnology</i> , 2013, 24, 455501.	2.6	29
67	Mechanical Properties of Organic Flexible Devices Fabricated by Thermal Press Method. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2013, 79, 1137-1141.	0.2	0
68	Fabrication and Performance Evaluation of Piezoelectric Strain Sensors Made from PVDF/MWNT Nanocomposites. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2013, 79, 563-572.	0.2	1
69	Pull-out simulations of a capped carbon nanotube in carbon nanotube-reinforced nanocomposites. <i>Journal of Applied Physics</i> , 2013, 113, 144304.	2.5	11
70	Prediction of pull-out force of multi-walled carbon nanotube (MWCNT) in sword-in-sheath mode. <i>Computational Materials Science</i> , 2012, 60, 7-12.	3.0	27
71	Evaluation of piezoelectric property of reduced graphene oxide (rGO)-poly(vinylidene fluoride) nanocomposites. <i>Nanoscale</i> , 2012, 4, 7250.	5.6	112
72	DYNAMIC LOAD IDENTIFICATION FOR UNCERTAIN STRUCTURES BASED ON INTERVAL ANALYSIS AND REGULARIZATION METHOD. <i>International Journal of Computational Methods</i> , 2011, 08, 667-683.	1.3	69

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73	Improvement of Piezoelectric Property of Poly(Vinylidene Fluoride) Nanocomposites Using Multi-Walled Carbon Nanotubes. Applied Mechanics and Materials, 0, 392, 57-61.	0.2	0