

Pinshane Y Huang

List of Publications by Citations

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48
papers

10,003
citations

27
h-index

52
g-index

52
ext. papers

11,353
ext. citations

14.8
avg, IF

5.86
L-index

#	Paper	IF	Citations
48	Grains and grain boundaries in highly crystalline monolayer molybdenum disulphide. <i>Nature Materials</i> , 2013 , 12, 554-61	27	1590
47	Grains and grain boundaries in single-layer graphene atomic patchwork quilts. <i>Nature</i> , 2011 , 469, 389-92	50.4	1573
46	High-mobility three-atom-thick semiconducting films with wafer-scale homogeneity. <i>Nature</i> , 2015 , 520, 656-60	50.4	1224
45	Multi-terminal transport measurements of MoS ₂ using a van der Waals heterostructure device platform. <i>Nature Nanotechnology</i> , 2015 , 10, 534-40	28.7	868
44	Graphene and boron nitride lateral heterostructures for atomically thin circuitry. <i>Nature</i> , 2012 , 488, 627-32	32.4	650
43	Graphene kirigami. <i>Nature</i> , 2015 , 524, 204-7	50.4	551
42	Tailoring electrical transport across grain boundaries in polycrystalline graphene. <i>Science</i> , 2012 , 336, 1143-6	33.3	469
41	In-Plane Anisotropy in Mono- and Few-Layer ReS ₂ Probed by Raman Spectroscopy and Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , 2015 , 15, 5667-72	11.5	327
40	Chemical vapor deposition-derived graphene with electrical performance of exfoliated graphene. <i>Nano Letters</i> , 2012 , 12, 2751-6	11.5	321
39	Strain solitons and topological defects in bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11256-60	11.5	293
38	Softened elastic response and unzipping in chemical vapor deposition graphene membranes. <i>Nano Letters</i> , 2011 , 11, 2259-63	11.5	278
37	High thermal conductivity in cubic boron arsenide crystals. <i>Science</i> , 2018 , 361, 579-581	33.3	220
36	Tailoring the electronic structure in bilayer molybdenum disulfide via interlayer twist. <i>Nano Letters</i> , 2014 , 14, 3869-75	11.5	213
35	Direct imaging of a two-dimensional silica glass on graphene. <i>Nano Letters</i> , 2012 , 12, 1081-6	11.5	206
34	Twinning and twisting of tri- and bilayer graphene. <i>Nano Letters</i> , 2012 , 12, 1609-15	11.5	194
33	Unusual high thermal conductivity in boron arsenide bulk crystals. <i>Science</i> , 2018 , 361, 582-585	33.3	185
32	Imaging atomic rearrangements in two-dimensional silica glass: watching silica dance. <i>Science</i> , 2013 , 342, 224-7	33.3	162

31	Energy Transfer from Quantum Dots to Graphene and MoS ₂ : The Role of Absorption and Screening in Two-Dimensional Materials. <i>Nano Letters</i> , 2016 , 16, 2328-33	11.5	140
30	Ultrasoft slip-mediated bending in few-layer graphene. <i>Nature Materials</i> , 2020 , 19, 305-309	27	85
29	Ultrathin oxide films by atomic layer deposition on graphene. <i>Nano Letters</i> , 2012 , 12, 3706-10	11.5	66
28	Preparation of Nonprecious Metal Electrocatalysts for the Reduction of Oxygen Using a Low-Temperature Sacrificial Metal. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5477-5481	16.4	62
27	High Thermal Conductivity in Isotopically Enriched Cubic Boron Phosphide. <i>Advanced Functional Materials</i> , 2018 , 28, 1805116	15.6	51
26	Strain Modulation of Graphene by Nanoscale Substrate Curvatures: A Molecular View. <i>Nano Letters</i> , 2018 , 18, 2098-2104	11.5	42
25	Deep Learning Enabled Strain Mapping of Single-Atom Defects in Two-Dimensional Transition Metal Dichalcogenides with Sub-Picometer Precision. <i>Nano Letters</i> , 2020 , 20, 3369-3377	11.5	38
24	Spin-Orbit Torque Switching in a Nearly Compensated Heusler Ferrimagnet. <i>Advanced Materials</i> , 2019 , 31, e1805361	24	36
23	Tunnel magnetoresistance and spin torque switching in MgO-based magnetic tunnel junctions with a Co/Ni multilayer electrode. <i>Applied Physics Letters</i> , 2010 , 97, 072513	3.4	33
22	Atomically precise graphene etch stops for three dimensional integrated systems from two dimensional material heterostructures. <i>Nature Communications</i> , 2018 , 9, 3988	17.4	33
21	Quantitative Imaging of Organic Ligand Density on Anisotropic Inorganic Nanocrystals. <i>Nano Letters</i> , 2019 , 19, 6308-6314	11.5	25
20	Rapid, all-optical crystal orientation imaging of two-dimensional transition metal dichalcogenide monolayers. <i>Applied Physics Letters</i> , 2015 , 107, 111902	3.4	16
19	Designing the Bending Stiffness of 2D Material Heterostructures. <i>Advanced Materials</i> , 2021 , 33, e2007269	24	13
18	Stochastic Stress Jumps Due to Soliton Dynamics in Two-Dimensional van der Waals Interfaces. <i>Nano Letters</i> , 2020 , 20, 1201-1207	11.5	10
17	Enhanced Photoluminescence of Multiple Two-Dimensional van der Waals Heterostructures Fabricated by Layer-by-Layer Oxidation of MoS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1245-1252	9.5	8
16	Ultrasonic Nebulization for TEM Sample Preparation on Single-Layer Graphene Grids. <i>Nano Letters</i> , 2019 , 19, 1938-1943	11.5	6
15	From atoms to grains: Transmission electron microscopy of graphene. <i>MRS Bulletin</i> , 2012 , 37, 1214-1221	3.2	6
14	Anomalous Dimensionality-Driven Phase Transition of MoTe ₂ in Van der Waals Heterostructure. <i>Advanced Functional Materials</i> , 2017 , 27, 170376	15.6	3

13	Evolution of Nb oxide nanoprecipitates in Cu during reactive mechanical alloying. <i>Journal of Materials Research</i> , 2020 , 35, 98-111	2.5	2
12	Nearly hyperuniform, nonhyperuniform, and antihyperuniform density fluctuations in two-dimensional transition metal dichalcogenides with defects. <i>Physical Review B</i> , 2021 , 103,	3.3	2
11	Deep Learning Enabled Measurements of Single-Atom Defects in 2D Transition Metal Dichalcogenides with Sub-Picometer Precision. <i>Microscopy and Microanalysis</i> , 2019 , 25, 172-173	0.5	1
10	Quantifying the Protection Factor of Graphene Substrates for Atomic-scale Imaging of Organic Crystals. <i>Microscopy and Microanalysis</i> , 2020 , 26, 786-787	0.5	1
9	Probing the Strain Fields of Single-Atom Defects in 2D materials with Sub-Picometer Precision. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1944-1944	0.5	0
8	Deep Learning Enabled Atom-by-Atom Analysis of 2D materials on the Million-Atom Scale. <i>Microscopy and Microanalysis</i> , 2021 , 27, 904-906	0.5	0
7	Probing The Mechanical Properties of Few-Layer Graphene with Aberration-Corrected, Low-Voltage STEM. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1730-1731	0.5	
6	Quantitative Chemical Mapping of Anisotropic Molecular Distributions on Gold Nanorods. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1772-1773	0.5	
5	Atomic Imaging Across Strain Boundaries in Bilayer Graphene with ADF-STEM and DF-TEM. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1058-1059	0.5	
4	Curvature-dependent Organic Ligand Binding on Gold Nanostars Revealed by Quantitative EELS Spectral Imaging. <i>Microscopy and Microanalysis</i> , 2021 , 27, 3320-3322	0.5	
3	2D Materials: Designing the Bending Stiffness of 2D Material Heterostructures (Adv. Mater. 9/2021). <i>Advanced Materials</i> , 2021 , 33, 2170066	24	
2	Quantitative Chemical Mapping of Soft-Hard Interfaces on Gold Nanorods. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1674-1675	0.5	
1	Understanding graphene's role as a protective substrate for atomic-resolution electron microscopy of small organic molecules. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2900-2901	0.5	