

# Lin Hu

## List of Publications by Year in descending order

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29  
papers

2,778  
citations

361413

20  
h-index

477307

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

4026  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing carbon dioxide gas-diffusion electrolysis by creating a hydrophobic catalyst microenvironment. <i>Nature Communications</i> , 2021, 12, 136.	12.8	288
2	Non-dilute helium-related defect interactions in the near-surface region of plasma-exposed tungsten. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	6
3	Understanding the Electrocatalytic Interface for Ambient Ammonia Synthesis. <i>ACS Energy Letters</i> , 2020, 5, 430-436.	17.4	127
4	Unidirectional Spin-Orbit Interaction Induced by the Line Defect in Monolayer Transition Metal Dichalcogenides for High-Performance Devices. <i>Nano Letters</i> , 2019, 19, 6005-6012.	9.1	21
5	A Broader-Scope Analysis of the Catalytic Reduction of Nitrophenols and Azo Dyes with Noble Metal Nanoparticles. <i>ChemCatChem</i> , 2019, 11, 2590-2595.	3.7	32
6	Valley splitting in the van der Waals heterostructure $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{WSe} \langle \text{mml:mi} \rangle \langle \text{mml:mfrac} \rangle \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ : The role of atom superposition. <i>Physical Review B</i> , 2019, 99, .	11.2	17
7	Effects of pore morphology and pore edge termination on the mechanical behavior of graphene nanomeshes. <i>Journal of Applied Physics</i> , 2019, 126, 164306.	2.5	9
8	A bifunctional catalyst for efficient dehydrogenation and electro-oxidation of hydrazine. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18050-18056.	10.3	20
9	Ambient ammonia synthesis via palladium-catalyzed electrohydrogenation of dinitrogen at low overpotential. <i>Nature Communications</i> , 2018, 9, 1795.	12.8	620
10	Ambient Electrochemical Ammonia Synthesis with High Selectivity on Fe/Fe Oxide Catalyst. <i>ACS Catalysis</i> , 2018, 8, 9312-9319.	11.2	248
11	Helium segregation and transport behavior near $\sim 100^\circ$ and $\sim 110^\circ$ symmetric tilt grain boundaries in tungsten. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	22
12	Dynamics of Small Mobile Helium Clusters Near a Symmetric Tilt Grain Boundary of Plasma-Exposed Tungsten. <i>Fusion Science and Technology</i> , 2017, 71, 36-51.	1.1	16
13	Thermal conductivity of tungsten: Effects of plasma-related structural defects from molecular-dynamics simulations. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	35
14	Benchmarks and Tests of a Multidimensional Cluster Dynamics Model of Helium Implantation in Tungsten. <i>Fusion Science and Technology</i> , 2017, 71, 84-92.	1.1	20
15	Modeling Helium Segregation to the Surfaces of Plasma-Exposed Tungsten as a Function of Temperature and Surface Orientation. <i>Fusion Science and Technology</i> , 2017, 71, 22-35.	1.1	18
16	Interactions of mobile helium clusters with surfaces and grain boundaries of plasma-exposed tungsten. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	66
17	Thermal transport properties of graphene nanomeshes. <i>Journal of Applied Physics</i> , 2014, 116, 184304.	2.5	23
18	Thermal conductance of the junction between single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	29

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19	Elastic properties of graphene nanomeshes. Applied Physics Letters, 2014, 104, .	3.3	42
20	Energy Accommodation between Noble Gases and Carbon Nanotubes. Journal of Physical Chemistry C, 2013, 117, 18804-18808.	3.1	14
21	Gas Diffusion, Energy Transport, and Thermal Accommodation in Single-Walled Carbon Nanotube Aerogels. Advanced Functional Materials, 2012, 22, 5251-5258.	14.9	95
22	Foamlike Porous Spinel $Mn_3Co_3\alpha''O_4$ Material Derived from $Mn_3[Co(CN)_6]_2 \cdot nH_2O$ Nanocubes: A Highly Efficient Anode Material for Lithium Batteries. Chemistry - A European Journal, 2012, 18, 15049-15056.	3.3	77
23	Fabrication Based on the Kirkendall Effect of $Co_3O_4$ Porous Nanocages with Extraordinarily High Capacity for Lithium Storage. Chemistry - A European Journal, 2012, 18, 8971-8977.	3.3	225
24	Thermal transport in graphene-based nanocomposite. Journal of Applied Physics, 2011, 110, .	2.5	91
25	Determination of interfacial thermal resistance at the nanoscale. Physical Review B, 2011, 83, .	3.2	136
26	One-dimensional phonon effects in direct molecular dynamics method for thermal conductivity determination. Journal of Applied Physics, 2011, 110, .	2.5	24
27	Thermal Transport in Self-Assembled Conductive Networks for Thermal Interface Materials. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.8	0
28	Phonon interference at self-assembled monolayer interfaces: Molecular dynamics simulations. Physical Review B, 2010, 81, .	3.2	79
29	Thermal conductivity of graphene ribbons from equilibrium molecular dynamics: Effect of ribbon width, edge roughness, and hydrogen termination. Applied Physics Letters, 2010, 96, .	3.3	306