Lin Hu

List of Publications by Year
in descending order

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	Ambient ammonia synthesis via palladium-catalyzed electrohydrogenation of dinitrogen at low overpotential. Nature Communications, 2018, 9, 1795.	12.8	620
2	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
3	Enhancing carbon dioxide gas-diffusion electrolysis by creating a hydrophobic catalyst microenvironment. Nature Communications, 2021, 12, 136.	12.8	288
4	Ambient Electrochemical Ammonia Synthesis with High Selectivity on Fe/Fe Oxide Catalyst. ACS Catalysis, 2018, 8, 9312-9319.	11.2	248
5	Fabrication Based on the Kirkendall Effect of Co₃O₄ Porous Nanocages with Extraordinarily High Capacity for Lithium Storage. Chemistry - A European Journal, 2012, 18, 8971-8977.	3.3	225
6	Determination of interfacial thermal resistance at the nanoscale. Physical Review B, 2011, 83, .	3.2	136
7	Understanding the Electrocatalytic Interface for Ambient Ammonia Synthesis. ACS Energy Letters, 2020, 5, 430-436.	17.4	127
8	Gas Diffusion, Energy Transport, and Thermal Accommodation in Singleâ€Walled Carbon Nanotube Aerogels. Advanced Functional Materials, 2012, 22, 5251-5258.	14.9	95
9	Thermal transport in graphene-based nanocomposite. Journal of Applied Physics, 2011, 110, .	2.5	91
10	Valley splitting in the van der Waals heterostructure <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>WSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>MnSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>: The role of atom superposition. Physical Review B, 2019, 99, .	3.2	87
11	Phonon interference at self-assembled monolayer interfaces: Molecular dynamics simulations. Physical Review B, 2010, 81, .	3.2	79
12	Foamlike Porous Spinel Mn_xCo_{3â^'x}O₄ Material Derived from Mn₃[Co(CN)₆]₂â‹…nH₂O Nanocubes: A Highly Efficient Anode Material for Lithium Batteries. Chemistry - A European Journal, 2012, 18, 15049-15056.	3.3	77
13	Interactions of mobile helium clusters with surfaces and grain boundaries of plasma-exposed tungsten. Journal of Applied Physics, 2014, 115, .	2.5	66
14	Elastic properties of graphene nanomeshes. Applied Physics Letters, 2014, 104, .	3.3	42
15	Thermal conductivity of tungsten: Effects of plasma-related structural defects from molecular-dynamics simulations. Applied Physics Letters, 2017, 111, .	3.3	35
16	A Broaderâ€Scope Analysis of the Catalytic Reduction of Nitrophenols and Azo Dyes with Noble Metal Nanoparticles. ChemCatChem, 2019, 11, 2590-2595.	3.7	32
17	Thermal conductance of the junction between single-walled carbon nanotubes. Applied Physics Letters, 2014, 105, .	3.3	29
18	One-dimensional phonon effects in direct molecular dynamics method for thermal conductivity determination. Journal of Applied Physics, 2011, 110, .	2.5	24

#	Article	IF	Citations
19	Thermal transport properties of graphene nanomeshes. Journal of Applied Physics, 2014, 116, 184304.	2.5	23
20	Helium segregation and transport behavior near âŸ¨100âŸ© and âŸ¨110âŸ© symmetric tilt grain boundaries in tungsten. Journal of Applied Physics, 2018, 123, .	2.5	22
21	Unidirectional Spinâ€“Orbit Interaction Induced by the Line Defect in Monolayer Transition Metal Dichalcogenides for High-Performance Devices. Nano Letters, 2019, 19, 6005-6012.	9.1	21
22	Benchmarks and Tests of a Multidimensional Cluster Dynamics Model of Helium Implantation in Tungsten. Fusion Science and Technology, 2017, 71, 84-92.	1.1	20
23	A bifunctional catalyst for efficient dehydrogenation and electro-oxidation of hydrazine. Journal of Materials Chemistry A, 2018, 6, 18050-18056.	10.3	20
24	Modeling Helium Segregation to the Surfaces of Plasma-Exposed Tungsten as a Function of Temperature and Surface Orientation. Fusion Science and Technology, 2017, 71, 22-35.	1.1	18
25	Dynamics of Small Mobile Helium Clusters Near a Symmetric Tilt Grain Boundary of Plasma-Exposed Tungsten. Fusion Science and Technology, 2017, 71, 36-51.	1.1	16
26	Energy Accommodation between Noble Gases and Carbon Nanotubes. Journal of Physical Chemistry C, 2013, 117, 18804-18808.	3.1	14
27	Effects of pore morphology and pore edge termination on the mechanical behavior of graphene nanomeshes. Journal of Applied Physics, 2019, 126, 164306.	2.5	9
28	Non-dilute helium-related defect interactions in the near-surface region of plasma-exposed tungsten. Journal of Applied Physics, 2020, 128, .	2.5	6
29	Thermal Transport in Self-Assembled Conductive Networks for Thermal Interface Materials. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.8	0