Ning Lu

List of Publications by Year in descending order

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29 papers	2,401 citations	430874 18 h-index	552781 26 g-index
32 all docs	32 docs citations	32 times ranked	5288 citing authors

#	Article	IF	Citations
1	Atomically thin resonant tunnel diodes built from synthetic van der Waals heterostructures. Nature Communications, 2015, 6, 7311.	12.8	382
2	Manganese Doping of Monolayer MoS₂: The Substrate Is Critical. Nano Letters, 2015, 15, 6586-6591.	9.1	357
3	Covalent Nitrogen Doping and Compressive Strain in MoS₂ by Remote N₂ Plasma Exposure. Nano Letters, 2016, 16, 5437-5443.	9.1	323
4	Pdâ€“Ir Coreâ€“Shell Nanocubes: A Type of Highly Efficient and Versatile Peroxidase Mimic. ACS Nano, 2015, 9, 9994-10004.	14.6	254
5	Ru Nanoframes with an fcc Structure and Enhanced Catalytic Properties. Nano Letters, 2016, 16, 2812-2817.	9.1	187
6	MoS2 functionalization for ultra-thin atomic layer deposited dielectrics. Applied Physics Letters, 2014, 104, .	3.3	171
7	Oriented attachment induces fivefold twins by forming and decomposing high-energy grain boundaries. Science, 2020, 367, 40-45.	12.6	136
8	Ptâ€“Ni octahedral nanocrystals as a class of highly active electrocatalysts toward the hydrogen evolution reaction in an alkaline electrolyte. Journal of Materials Chemistry A, 2016, 4, 12392-12397.	10.3	103
9	Synthesis of Ptâ€“Ni Octahedra in Continuous-Flow Droplet Reactors for the Scalable Production of Highly Active Catalysts toward Oxygen Reduction. Nano Letters, 2016, 16, 3850-3857.	9.1	86
10	Controllable growth of layered selenide and telluride heterostructures and superlattices using molecular beam epitaxy. Journal of Materials Research, 2016, 31, 900-910.	2.6	85
11	Photochemical Deposition of Highly Dispersed Pt Nanoparticles on Porous CeO₂ Nanofibers for the Waterâ€Gas Shift Reaction. Advanced Functional Materials, 2015, 25, 4153-4162.	14.9	75
12	Fermi Level Manipulation through Native Doping in the Topological Insulator Bi₂Se₃. ACS Nano, 2018, 12, 6310-6318.	14.6	37
13	Enhanced shape stability of Pdâ€“Rh coreâ€“frame nanocubes at elevated temperature: in situ heating transmission electron microscopy. Chemical Communications, 2013, 49, 11806.	4.1	33
14	Size-Dependent Grain-Boundary Structure with Improved Conductive and Mechanical Stabilities in Sub-10-nm Gold Crystals. Physical Review Letters, 2018, 120, 186102.	7.8	29
15	A Mechanistic Study on the Nucleation and Growth of Au on Pd Seeds with a Cubic or Octahedral Shape. ChemCatChem, 2012, 4, 1668-1674.	3.7	28
16	Creating a single twin boundary between two CdTe (111) wafers with controlled rotation angle by wafer bonding. Applied Physics Letters, 2013, 103, .	3.3	21
17	Strain Relaxation-Induced Twin Interface Migration and Morphology Evolution of Silver Nanoparticles. Chemistry of Materials, 2019, 31, 842-850.	6.7	20
18	Formation of hexagonal boron nitride on graphene-covered copper surfaces. Journal of Materials Research, 2016, 31, 945-958.	2.6	17

#	Article	IF	Citations
19	Luminescent LaF3:Ce-doped organically modified nanoporous silica xerogels. Journal of Applied Physics, 2013, 113, .	2.5	8
20	PolyProc: A Modular Processing Pipeline for X-ray Diffraction Tomography. Integrating Materials and Manufacturing Innovation, 2019, 8, 388-399.	2.6	6
21	Atomic Resolution Scanning Transmission Electron Microscopy of Two-Dimensional Layered Transition Metal Dichalcogenides. Applied Microscopy, 2015, 45, 225-229.	1.4	4
22	Origins of Non-random Particle Distributions and Implications to Abnormal Grain Growth in an Al-3.5 Wt Pct Cu Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 914-927.	2.2	2
23	Creating Single Boundary between Two CdTe (111) Wafers with Controlled Orientation by Wafer Bonding. Microscopy and Microanalysis, 2014, 20, 516-517.	0.4	1
24	Aberration Corrected High Angle Annular Dark Field (HAADF) Scanning Transmission Electron Microscopy (STEM) and In Situ Transmission Electron Microscopy (TEM) Study of Transition Metal Dichalcogenides (TMDs). Microscopy and Microanalysis, 2015, 21, 431-432.	0.4	1
25	The Dynamics of Abnormal Grain Growth in a Particle-Containing System: Integration of 3D Experimental Data into a Capillarity Driven Model. Microscopy and Microanalysis, 2019, 25, 424-425.	0.4	1
26	In-Situ Studies of Thermal Stability of Coreâ€“Frame Cubic Pdâ€“Rh Nanocrystals at Elevated Temperatures. Microscopy and Microanalysis, 2014, 20, 1632-1633.	0.4	0
27	Aberration-Corrected STEM and Tomography of Pd-Pt Nanoparticles: Core-Shell Cubic and Core-Frame Concave Structures. Microscopy and Microanalysis, 2015, 21, 1731-1732.	0.4	0
28	Aberration-Corrected STEM Study of Shape Controlled Metallic Core-Shell Nanoparticles for Catalytic Applications. Microscopy and Microanalysis, 2017, 23, 1852-1853.	0.4	0
29	The Dynamics of Abnormal Grain Growth in a Particle Containing System: New Insights from Multimodal Three-Dimensional X-Ray Imaging. Microscopy and Microanalysis, 2019, 25, 368-369.	0.4	0