

Ning Lu

List of Publications by Year in descending order

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29
papers

2,401
citations

430874

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552781

26
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32
all docs

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docs citations

32
times ranked

5288
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Oriented attachment induces fivefold twins by forming and decomposing high-energy grain boundaries. Science, 2020, 367, 40-45.	12.6	136
3	PolyProc: A Modular Processing Pipeline for X-ray Diffraction Tomography. Integrating Materials and Manufacturing Innovation, 2019, 8, 388-399.	2.6	6
4	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
5	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
6	Strain Relaxation-Induced Twin Interface Migration and Morphology Evolution of Silver Nanoparticles. Chemistry of Materials, 2019, 31, 842-850.	6.7	20
7	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
8	Fermi Level Manipulation through Native Doping in the Topological Insulator Bi ₂ Se ₃ . ACS Nano, 2018, 12, 6310-6318.	14.6	37
9	Aberration-Corrected STEM Study of Shape Controlled Metallic Core-Shell Nanoparticles for Catalytic Applications. Microscopy and Microanalysis, 2017, 23, 1852-1853.	0.4	0
10	Pt-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
11	Formation of hexagonal boron nitride on graphene-covered copper surfaces. Journal of Materials Research, 2016, 31, 945-958.	2.6	17
12	Synthesis of Pt-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
13	Covalent Nitrogen Doping and Compressive Strain in MoS ₂ by Remote N ₂ Plasma Exposure. Nano Letters, 2016, 16, 5437-5443.	9.1	323
14	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
15	Ru Nanoframes with an fcc Structure and Enhanced Catalytic Properties. Nano Letters, 2016, 16, 2812-2817.	9.1	187
16	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
17	Photochemical Deposition of Highly Dispersed Pt Nanoparticles on Porous CeO ₂ Nanofibers for the Water-Gas Shift Reaction. Advanced Functional Materials, 2015, 25, 4153-4162.	14.9	75
18	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

#	ARTICLE	IF	CITATIONS
19	Atomically thin resonant tunnel diodes built from synthetic van der Waals heterostructures. Nature Communications, 2015, 6, 7311.	12.8	382
20	Manganese Doping of Monolayer MoS ₂ : The Substrate Is Critical. Nano Letters, 2015, 15, 6586-6591.	9.1	357
21	Pd-Ir Core-Shell Nanocubes: A Type of Highly Efficient and Versatile Peroxidase Mimic. ACS Nano, 2015, 9, 9994-10004.	14.6	254
22	Atomic Resolution Scanning Transmission Electron Microscopy of Two-Dimensional Layered Transition Metal Dichalcogenides. Applied Microscopy, 2015, 45, 225-229.	1.4	4
23	MoS ₂ functionalization for ultra-thin atomic layer deposited dielectrics. Applied Physics Letters, 2014, 104, .	3.3	171
24	Creating Single Boundary between Two CdTe (111) Wafers with Controlled Orientation by Wafer Bonding. Microscopy and Microanalysis, 2014, 20, 516-517.	0.4	1
25	In-Situ Studies of Thermal Stability of Core-Frame Cubic Pd-Rh Nanocrystals at Elevated Temperatures. Microscopy and Microanalysis, 2014, 20, 1632-1633.	0.4	0
26	Luminescent LaF ₃ :Ce-doped organically modified nanoporous silica xerogels. Journal of Applied Physics, 2013, 113, .	2.5	8
27	Enhanced shape stability of Pd-Rh core-frame nanocubes at elevated temperature: in situ heating transmission electron microscopy. Chemical Communications, 2013, 49, 11806.	4.1	33
28	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
29	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