

Yanna Chen

List of Publications by Year in descending order

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36
papers

820
citations

759233

12
h-index

501196

28
g-index

38
all docs

38
docs citations

38
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase Control of Solid-Solution Nanoparticles beyond the Phase Diagram for Enhanced Catalytic Properties. ACS Materials Au, 2022, 2, 110-116.	6.0	4
2	Electronic states of gallium oxide epitaxial thin films and related atomic arrangement. Applied Surface Science, 2022, 578, 151943.	6.1	4
3	Atomic-Site-Specific Surface Valence-Band Structure from X-Ray Standing-Wave Excited Photoemission. Physical Review Letters, 2022, 128, .	7.8	0
4	Atomic-Scale View of Redox Induced Changes for Monolayer MoO _x on $\sqrt{2}\times\sqrt{2}$ -TiO ₂ (110) with Chemical-State Sensitivity. Journal of Physical Chemistry Letters, 2022, 13, 5304-5309.	4.6	4
5	Efficient overall water splitting in acid with anisotropic metal nanosheets. Nature Communications, 2021, 12, 1145.	12.8	124
6	Highly Stable and Active Solid-Solution Alloy Three-Way Catalyst by Utilizing Configurational Entropy Effect. Advanced Materials, 2021, 33, e2005206.	21.0	22
7	Atomic-Scale Structure of Chemically Distinct Surface Oxygens in Redox Reactions. Journal of the American Chemical Society, 2021, 143, 17937-17941.	13.7	3
8	Crystalline to amorphous transformation in solid-solution alloy nanoparticles induced by boron doping. Chemical Communications, 2020, 56, 12941-12944.	4.1	8
9	Phonon scattering at the interfaces of epitaxially grown Fe ₂ VAl/W and Fe ₂ VAl/Mo superlattices. Journal of Applied Physics, 2019, 125, 225101.	2.5	12
10	Lattice-plane bending angle modulation of Mg-doped GaN homoepitaxial layer observed by X-ray diffraction topography. CrystEngComm, 2019, 21, 2281-2285.	2.6	4
11	Colossal barocaloric effects in plastic crystals. Nature, 2019, 567, 506-510.	27.8	253
12	Mapping of a Lattice-Plane Tilting in a $\langle \text{Ga}_x\text{N}_{1-x} \rangle$ Wafer Using Energy-Resolved X-Ray Diffraction Topography. Physical Review Applied, 2019, 11, .	3.8	5
13	Tuning of structural, optical band gap, and electrical properties of room-temperature-grown epitaxial thin films through the Fe ₂ O ₃ :NiO ratio. Scientific Reports, 2019, 9, 4304.	3.3	31
14	Synchrotron X-ray diffraction characterization of the inheritance of GaN homoepitaxial thin films grown on selective growth substrates. CrystEngComm, 2018, 20, 2861-2867.	2.6	8
15	Crystallization kinetics of PbTiO ₃ ferroelectric films: Comparison of microwave irradiation with conventional heating. Journal of the European Ceramic Society, 2018, 38, 105-111.	5.7	9
16	Analyzing the Boundary Thermal Resistance of Epitaxially Grown Fe ₂ VAl/W Layers by Picosecond Time-Domain Thermoreflectance. Journal of Electronic Materials, 2018, 47, 3113-3118.	2.2	3
17	Characterization of a 4-inch GaN wafer by X-ray diffraction topography. CrystEngComm, 2018, 20, 7761-7765.	2.6	11
18	Electronic origin of hydrogen storage in MOF-covered palladium nanocubes investigated by synchrotron X-rays. Communications Chemistry, 2018, 1, .	4.5	24

#	ARTICLE	IF	CITATIONS
19	Lattice constant, bond-orientational order, and solid solubility of PdPt bimetallic nanoparticles. Applied Physics Letters, 2018, 113, .	3.3	12
20	Evaluation of lattice curvature and crystalline homogeneity for 2-inch GaN homo-epitaxial layer. AIP Advances, 2018, 8, .	1.3	5
21	Lattice-plane orientation mapping of homo-epitaxial GaN(0001) thin films via grazing-incidence X-ray diffraction topography in 2-in. wafer. Applied Physics Express, 2018, 11, 081002.	2.4	11
22	Lattice distortion and electronic structure of magnesium-doped nickel oxide epitaxial thin films. Physical Review B, 2017, 95, .	3.2	18
23	Resistive Switching and Modulation of Pb(Zr _{0.4} Ti _{0.6})O ₃ /Nb:SrTiO ₃ Heterostructures. ACS Applied Materials & Interfaces, 2016, 8, 32948-32955.	8.0	39
24	Enhanced magnetic and ferroelectric properties in Pb(Zr _{0.52} Ti _{0.48})O ₃ /La _{0.7} Ca _{0.3} MnO ₃ bilayers grown on Nb-doped (110) SrTiO ₃ substrate. Journal of Alloys and Compounds, 2016, 680, 565-570.	5.5	7
25	Effect of microwave irradiation on reduction of graphene oxide films. RSC Advances, 2015, 5, 92940-92946.	3.6	36
26	Effect of heating rates on the crystallization process of (111)-oriented lead zirconate titanate thin films prepared by the sol-gel method. Ceramics International, 2015, 41, 15208-15216.	4.8	12
27	Valence-band offset and forward-backward charge transfer in manganite/NiO and manganite/LaNiO ₃ heterostructures. Nanoscale, 2015, 7, 20635-20641.	5.6	14
28	Orientation-dependent piezoelectricity and domain characteristics of tetragonal Pb(Zr _{0.3} Ti _{0.7}) _{0.98} Nb _{0.02} O ₃ thin films on Nb-doped SrTiO ₃ substrates. Applied Physics Letters, 2014, 104, .	3.3	15
29	Effect of Pyrolysis Temperature on Sol-gel Synthesis of Lead-free Piezoelectric (K, Na)NbO ₃ Films on Nb:SrTiO ₃ Substrates. Journal of the American Ceramic Society, 2014, 97, 107-113.	3.8	31
30	Unveiling the electronic origin of anion order in CrO _{2-x} F _x . Chemical Communications, 2014, 50, 799-801.	4.1	5
31	Crystallization kinetics of amorphous lead zirconate titanate thin films in a microwave magnetic field. Acta Materialia, 2014, 71, 1-10.	7.9	30
32	Effect of grain boundary on electrical properties of polycrystalline lanthanum nickel oxide thin films. Applied Physics A: Materials Science and Processing, 2013, 112, 1011-1018.	2.3	12
33	Microwave processing of conductive lanthanum nickel oxide films in separated microwave magnetic field. Surface and Coatings Technology, 2013, 216, 139-144.	4.8	2
34	Rapid Microwave Annealing of Amorphous Lead Zirconate Titanate Thin Films Deposited by Sol-gel Method on LaNiO ₃ /SiO ₂ Substrates. Journal of the American Ceramic Society, 2013, 96, 90-95.	3.8	12
35	Microstructure and transport properties of sol-gel derived highly (100)-oriented lanthanum nickel oxide thin films on SiO ₂ /Si substrate. Journal of Crystal Growth, 2011, 336, 44-49.	1.5	10
36	Crystallization of Ferroelectric Lead Zirconate Titanate Thin Films by Microwave Annealing at Low Temperatures. Journal of the American Ceramic Society, 2011, 94, 404-409.	3.8	18