

# Yanna Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Colossal barocaloric effects in plastic crystals. <i>Nature</i> , 2019, 567, 506-510.	27.8	253
2	Efficient overall water splitting in acid with anisotropic metal nanosheets. <i>Nature Communications</i> , 2021, 12, 1145.	12.8	124
3	Resistive Switching and Modulation of $\text{Pb}(\text{Zr}_{0.4}\text{Ti}_{0.6})\text{O}_3/\text{Nb:SrTiO}_3$ Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32948-32955.	8.0	39
4	Effect of microwave irradiation on reduction of graphene oxide films. <i>RSC Advances</i> , 2015, 5, 92940-92946.	3.6	36
5	Effect of Pyrolysis Temperature on Sol-Gel Synthesis of Lead-Free Piezoelectric $(\text{K}, \text{Na})\text{NbO}_3$ Films on $\text{Nb:SrTiO}_3$ Substrates. <i>Journal of the American Ceramic Society</i> , 2014, 97, 107-113.	3.8	31
6	Tuning of structural, optical band gap, and electrical properties of room-temperature-grown epitaxial thin films through the $\text{Fe}_2\text{O}_3:\text{NiO}$ ratio. <i>Scientific Reports</i> , 2019, 9, 4304.	3.3	31
7	Crystallization kinetics of amorphous lead zirconate titanate thin films in a microwave magnetic field. <i>Acta Materialia</i> , 2014, 71, 1-10.	7.9	30
8	Electronic origin of hydrogen storage in MOF-covered palladium nanocubes investigated by synchrotron X-rays. <i>Communications Chemistry</i> , 2018, 1, .	4.5	24
9	Highly Stable and Active Solid-Solution Alloy Three-Way Catalyst by Utilizing Configurational Entropy Effect. <i>Advanced Materials</i> , 2021, 33, e2005206.	21.0	22
10	Crystallization of Ferroelectric Lead Zirconate Titanate Thin Films by Microwave Annealing at Low Temperatures. <i>Journal of the American Ceramic Society</i> , 2011, 94, 404-409.	3.8	18
11	Lattice distortion and electronic structure of magnesium-doped nickel oxide epitaxial thin films. <i>Physical Review B</i> , 2017, 95, .	3.2	18
12	Orientation-dependent piezoelectricity and domain characteristics of tetragonal $\text{Pb}(\text{Zr}_{0.3}\text{Ti}_{0.7})_{0.98}\text{Nb}_{0.02}\text{O}_3$ thin films on Nb-doped $\text{SrTiO}_3$ substrates. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	15
13	Valence-band offset and forward-backward charge transfer in manganite/ $\text{NiO}$ and manganite/ $\text{LaNiO}_3$ heterostructures. <i>Nanoscale</i> , 2015, 7, 20635-20641.	5.6	14
14	Effect of grain boundary on electrical properties of polycrystalline lanthanum nickel oxide thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 1011-1018.	2.3	12
15	Rapid Microwave Annealing of Amorphous Lead Zirconate Titanate Thin Films Deposited by Sol-Gel Method on $(\text{La}, \text{NiO})_3/\text{SiO}_2/\text{Si}$ Substrates. <i>Journal of the American Ceramic Society</i> , 2013, 96, 90-95.	3.8	12
16	Effect of heating rates on the crystallization process of (111)-oriented lead zirconate titanate thin films prepared by the sol-gel method. <i>Ceramics International</i> , 2015, 41, 15208-15216.	4.8	12
17	Lattice constant, bond-orientational order, and solid solubility of PdPt bimetallic nanoparticles. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	12
18	Phonon scattering at the interfaces of epitaxially grown $\text{Fe}_2\text{VAl}/\text{W}$ and $\text{Fe}_2\text{VAl}/\text{Mo}$ superlattices. <i>Journal of Applied Physics</i> , 2019, 125, 225101.	2.5	12

#	ARTICLE	IF	CITATIONS
19	Characterization of a 4-inch GaN wafer by X-ray diffraction topography. CrystEngComm, 2018, 20, 7761-7765.	2.6	11
20	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
21	Microstructure and transport properties of sol-gel derived highly (100)-oriented lanthanum nickel oxide thin films on SiO <sub>2</sub> /Si substrate. Journal of Crystal Growth, 2011, 336, 44-49.	1.5	10
22	Crystallization kinetics of PbTiO <sub>3</sub> ferroelectric films: Comparison of microwave irradiation with conventional heating. Journal of the European Ceramic Society, 2018, 38, 105-111.	5.7	9
23	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
24	Crystalline to amorphous transformation in solid-solution alloy nanoparticles induced by boron doping. Chemical Communications, 2020, 56, 12941-12944.	4.1	8
25	Enhanced magnetic and ferroelectric properties in Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> /La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> bilayers grown on Nb-doped (110) SrTiO <sub>3</sub> substrate. Journal of Alloys and Compounds, 2016, 680, 565-570.	5.5	7
26	Unveiling the electronic origin of anion order in CrO <sub>2</sub> F. Chemical Communications, 2014, 50, 799-801.	4.1	5
27	Evaluation of lattice curvature and crystalline homogeneity for 2-inch GaN homo-epitaxial layer. AIP Advances, 2018, 8, .	1.3	5
28	Mapping of a Lattice-Plane Tilting in a GaN Wafer Using Energy-Resolved X-Ray Diffraction Topography. Physical Review Applied, 2019, 11, .	3.8	5
29	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
30	Phase Control of Solid-Solution Nanoparticles beyond the Phase Diagram for Enhanced Catalytic Properties. ACS Materials Au, 2022, 2, 110-116.	6.0	4
31	Electronic states of gallium oxide epitaxial thin films and related atomic arrangement. Applied Surface Science, 2022, 578, 151943.	6.1	4
32	Atomic-Scale View of Redox Induced Changes for Monolayer MoO <sub>3</sub> on $\sqrt{2}\times\sqrt{2}$ -TiO <sub>2</sub> (110) with Chemical-State Sensitivity. Journal of Physical Chemistry Letters, 2022, 13, 5304-5309.	4.6	4
33	Analyzing the Boundary Thermal Resistance of Epitaxially Grown Fe <sub>2</sub> VAl/W Layers by Picosecond Time-Domain Thermorefectance. Journal of Electronic Materials, 2018, 47, 3113-3118.	2.2	3
34	Atomic-Scale Structure of Chemically Distinct Surface Oxygens in Redox Reactions. Journal of the American Chemical Society, 2021, 143, 17937-17941.	13.7	3
35	Microwave processing of conductive lanthanum nickel oxide films in separated microwave magnetic field. Surface and Coatings Technology, 2013, 216, 139-144.	4.8	2
36	Atomic-Site-Specific Surface Valence-Band Structure from X-Ray Standing-Wave Excited Photoemission. Physical Review Letters, 2022, 128, .	7.8	0