

# Ding Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8764992/publications.pdf>

Version: 2024-02-01

55  
papers

1,246  
citations

471061

17  
h-index

377514

34  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1614  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of High-Purity Mesoporous Alumina Material with Industrial Al(OH) <sub>3</sub> via Ion Exchange. Transactions of the Indian Institute of Metals, 2022, 75, 771-781.	0.7	0
2	Study on Oxygen Evolution Reaction Performance of Jarosite/C Composites. Materials, 2022, 15, 668.	1.3	2
3	Quaternary alloy ScAlGaN: A promising strategy to improve the quality of ScAlN. Applied Physics Letters, 2022, 120, .	1.5	16
4	Synthesis and Characterization of High-Purity Mesoporous Alumina with Excellent Adsorption Capacity for Congo Red. Materials, 2022, 15, 970.	1.3	8
5	High-Order Sezawa Mode Alscn/Gan/Sapphire Surface Acoustic Wave Resonators. , 2022, , .		4
6	Scalable Synthesis of Monolayer Hexagonal Boron Nitride on Graphene with Giant Bandgap Renormalization. Advanced Materials, 2022, 34, e2201387.	11.1	22
7	Prevalence and potential risk factors of chronic pruritus among community middle-aged and older population in Beijing, China. Journal of the European Academy of Dermatology and Venereology, 2022, 36, 1074-1079.	1.3	2
8	Interfacial Modulated Lattice-Polarity-Controlled Epitaxy of III-Nitride Heterostructures on Si(111). ACS Applied Materials & Interfaces, 2022, 14, 15747-15755.	4.0	13
9	An Epitaxial Ferroelectric ScAlN/GaN Heterostructure Memory. Advanced Electronic Materials, 2022, 8, .	2.6	37
10	The long-term effect of dental treatment under general anaesthesia or physical restraints on children's dental anxiety and behaviour.. European Journal of Paediatric Dentistry, 2022, 23, 27-32.	0.4	3
11	Development of a High-Energy X-Ray Backlighting System for Z-Pinch Experiments. Fusion Science and Technology, 2022, 78, 468-474.	0.6	0
12	Ferroelectric N-polar ScAlN/GaN heterostructures grown by molecular beam epitaxy. Applied Physics Letters, 2022, 121, .	1.5	15
13	Controlling Phase-Coherent Electron Transport in III-Nitrides: Toward Room Temperature Negative Differential Resistance in AlGaIn/GaN Double Barrier Structures. Advanced Functional Materials, 2021, 31, 2007216.	7.8	12
14	Oxygen defect dominated photoluminescence emission of ScAl <sub>1-x</sub> Al <sub>x</sub> N grown by molecular beam epitaxy. Applied Physics Letters, 2021, 118, .	1.5	22
15	Enhancing CO <sub>2</sub> plasma conversion using metal grid catalysts. Journal of Applied Physics, 2021, 129, .	1.1	14
16	Microstructure and dislocation evolution in composition gradient AlGaIn grown by MOCVD. Superlattices and Microstructures, 2021, 152, 106842.	1.4	6
17	Fully epitaxial ferroelectric ScAlN grown by molecular beam epitaxy. Applied Physics Letters, 2021, 118, .	1.5	71
18	N-polar ScAlN and HEMTs grown by molecular beam epitaxy. Applied Physics Letters, 2021, 119, .	1.5	27

#	ARTICLE	IF	CITATIONS
19	Study on the Synthesis of High-Purity $\gamma$ -Phase Mesoporous Alumina with Excellent CO <sub>2</sub> Adsorption Performance via a Simple Method Using Industrial Aluminum Oxide as Raw Material. <i>Materials</i> , 2021, 14, 5465.	1.3	4
20	Fully epitaxial ferroelectric ScGaN grown on GaN by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	35
21	Lignin-Induced CaCO <sub>3</sub> Vaterite Structure for Biocatalytic Artificial Photosynthesis. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 58522-58531.	4.0	12
22	The trigger and data acquisition system of the FASER experiment. <i>Journal of Instrumentation</i> , 2021, 16, P12028.	0.5	13
23	The effect of kink and vertical leakage mechanisms in GaN-on-Si epitaxial layers. <i>Semiconductor Science and Technology</i> , 2020, 35, 085015.	1.0	1
24	“Waste to Wealth” Lignin as a Renewable Building Block for Energy Harvesting/Storage and Environmental Remediation. <i>ChemSusChem</i> , 2020, 13, 2807-2827.	3.6	55
25	III-nitrides based resonant tunneling diodes. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 253002.	1.3	8
26	Lignin-fueled photoelectrochemical platform for light-driven redox biotransformation. <i>Green Chemistry</i> , 2020, 22, 5151-5160.	4.6	24
27	A GaN/AlN quantum cascade detector with a broad response from the mid-infrared (4.1 $\mu$ m) to the visible (550 nm) spectral range. <i>Applied Physics Letters</i> , 2020, 116, 171102.	1.5	13
28	Full-composition-graded In <sub>x</sub> Ga <sub>1-x</sub> N films grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2020, 117, 182101.	1.5	7
29	Experimental Evidence of Large Bandgap Energy in Atomically Thin AlN. <i>Advanced Functional Materials</i> , 2019, 29, 1902608.	7.8	21
30	Planar anisotropic Shubnikov-de-Haas oscillations of two-dimensional electron gas in AlN/GaN heterostructure. <i>Applied Physics Letters</i> , 2019, 115, 152107.	1.5	5
31	A Novel Empirical Model for CMOS Schottky Diodes up to 67 GHz. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 4660-4665.	1.6	1
32	Dominant Influence of Interface Roughness Scattering on the Performance of GaN Terahertz Quantum Cascade Lasers. <i>Nanoscale Research Letters</i> , 2019, 14, 206.	3.1	11
33	“Tree to Bone” Lignin/Polycaprolactone Nanofibers for Hydroxyapatite Biomineralization. <i>Biomacromolecules</i> , 2019, 20, 2684-2693.	2.6	82
34	Repeatable asymmetric resonant tunneling in AlGaN/GaN double barrier structures grown on sapphire. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	17
35	Repeatable Room Temperature Negative Differential Resistance in AlN/GaN Resonant Tunneling Diodes Grown on Sapphire. <i>Advanced Electronic Materials</i> , 2019, 5, 1800651.	2.6	32
36	Thioflavin T Amyloid Hybrid Nanostructure for Biocatalytic Photosynthesis. <i>Small</i> , 2018, 14, e1801396.	5.2	27

#	ARTICLE	IF	CITATIONS
37	High-Mobility Two-Dimensional Electron Gas at InGaN/InN Heterointerface Grown by Molecular Beam Epitaxy. <i>Advanced Science</i> , 2018, 5, 1800844.	5.6	18
38	Enhanced wear resistance by combined ultrasonic impact and electro-spark melting. <i>Surface Engineering</i> , 2017, 33, 903-910.	1.1	3
39	Experimental investigation of an I band all cavity axial extraction relativistic magnetron. , 2017, , .		0
40	Colossal Interstitial Supersaturation in Delta Ferrite in 17-7 PH Stainless Steels After Low-temperature Nitridation. <i>Microscopy and Microanalysis</i> , 2016, 22, 2020-2023.	0.2	0
41	Experimental Investigation and Thermodynamic Calculation of the Phase Equilibria in the Cu-Nb-Zr Ternary System. <i>Journal of Phase Equilibria and Diffusion</i> , 2016, 37, 513-523.	0.5	6
42	Experimental Investigation of the Phase Equilibria in the Co-Nb-V Ternary System. <i>Journal of Phase Equilibria and Diffusion</i> , 2015, 36, 592-598.	0.5	7
43	Selective deposition of nanocrystalline carbon films on GaN diodes in photocatalytic reactions. <i>CrystEngComm</i> , 2014, 16, 10097-10102.	1.3	3
44	Colossal Carbon Supersaturation of Delta Ferrite in 17-7 PH Stainless Steel. <i>Microscopy and Microanalysis</i> , 2014, 20, 2102-2103.	0.2	1
45	Temperature profiles of low-temperature alloy irradiated by pulsed ion beams. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 307, 499-502.	0.6	3
46	Generating ultrabroadband terahertz radiation based on the under-compression mode of velocity bunching. <i>Review of Scientific Instruments</i> , 2013, 84, 022704.	0.6	4
47	A simple gel route to synthesize nano-Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> as a high-performance anode material for Li-ion batteries. <i>Journal of Materials Science</i> , 2009, 44, 198-203.	1.7	55
48	Highly oriented carbon nanotube papers made of aligned carbon nanotubes. <i>Nanotechnology</i> , 2008, 19, 075609.	1.3	282
49	Efficient genome-wide mutagenesis of zebrafish genes by retroviral insertions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12428-12433.	3.3	113
50	Reply to Comments by J. Román Galdamez on J. Chem. Eng. Data 2007, 52, 368~372. <i>Journal of Chemical &amp; Engineering Data</i> , 2007, 52, 2096-2097.	1.0	0
51	Strategy for pinpointing the best glass-forming alloys. <i>Applied Physics Letters</i> , 2005, 86, 191906.	1.5	88
52	Single nucleotide polymorphism discrimination assisted by improved base stacking hybridization using oligonucleotide microarrays. <i>BioTechniques</i> , 2003, 35, 300-308.	0.8	12
53	Pulse-parameter dependence of the configuration characteristics of a micro-structure in fused SiO <sub>2</sub> induced by femtosecond laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, 497-501.	1.1	8
54	Diffraction Effects from [111] Twist Boundaries in Gold. <i>Materials Research Society Symposia Proceedings</i> , 1990, 209, 47.	0.1	0

#	ARTICLE	IF	CITATIONS
55	Calculation of Diffraction Effects Due to Double Positioning in (111) Gold Bicrystals. Physica Status Solidi (B): Basic Research, 1990, 161, 501-511.	0.7	1