

Baishakhi

List of Publications by Year in descending order

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42
papers

736
citations

623734

14
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552781

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all docs

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docs citations

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times ranked

1096
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation between thickness dependent nanoscale structural chemistry and superconducting properties of ultrathin epitaxial NbN films. <i>Materials Chemistry and Physics</i> , 2022, 282, 125962.	4.0	5
2	Nanoscale chemistry and ion segregation in zirconia-based ceramic at grain boundaries by atom probe tomography. <i>Scripta Materialia</i> , 2022, 213, 114603.	5.2	5
3	Probing structural and chemical evolution in $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ using atom probe tomography: A review. <i>Journal of Materials Research</i> , 2021, 36, 52-69.	2.6	7
4	Direct observation of site-specific dopant substitution in Si doped $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ using atom probe tomography. <i>Journal of Materials Research</i> , 2021, 36, 184001.	2.8	13
5	Dopant-defect interactions in Mg-doped GaN via atom probe tomography. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	6
6	Probing structural and chemical evolution in $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ using atom probe tomography: A review. <i>Journal of Materials Research</i> , 2021, 36, 1-18.	2.6	0
7	Medium-range ordering, structural heterogeneity, and their influence on properties of Zr-Cu-Co-Al metallic glasses. <i>Physical Review Materials</i> , 2021, 5, .	2.4	8
8	Nanoscale compositional analysis of wurtzite BAIN thin film using atom probe tomography. <i>Applied Physics Letters</i> , 2020, 117, 232103.	3.3	5
9	Response to "Comment on "Phase transformation in MOCVD growth of $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ thin films". <i>APL Mater.</i> 8, 089101 (2020)]. <i>APL Materials</i> , 2020, 8, .	5.1	11
10	Effects of cation stoichiometry on surface morphology and crystallinity of ZnGeN ₂ films grown on GaN by metalorganic chemical vapor deposition. <i>AIP Advances</i> , 2020, 10, .	1.3	11
11	Phase transformation in MOCVD growth of $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ thin films. <i>APL Materials</i> , 2020, 8, .	5.1	75
12	Probing Heterogeneity in Bovine Enamel Composition through Nanoscale Chemical Imaging using Atom Probe Tomography. <i>Archives of Oral Biology</i> , 2020, 112, 104682.	1.8	4
13	Hillock assisted p-type enhancement in N-polar GaN:Mg films grown by MOCVD. <i>Scientific Reports</i> , 2020, 10, 1426.	3.3	19
14	Correlation of Multiplicity and Chemistry in $\text{Al}_x\text{Ga}_{1-x}\text{N}$ Heterostructure via Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2020, 26, 95-101.	0.4	1
15	A combined approach of atom probe tomography and unsupervised machine learning to understand phase transformation in $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	21
16	Understanding the Growth Mechanism of $\text{In}_2(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ by Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 2508-2509.	0.4	4
17	Structural, band and electrical characterization of $\text{In}_2(\text{Al}_{0.19}\text{Ga}_{0.81})_2\text{O}_3$ films grown by molecular beam epitaxy on Sn doped $\text{In}_2\text{Ga}_2\text{O}_3$ substrate. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	26
18	Atomic scale investigation of chemical heterogeneity in $\text{In}_2(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ films using atom probe tomography. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	14

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19	Flexible $\text{In}_2\text{Ga}_2\text{O}_3$ Nanomembrane Schottky Barrier Diodes. <i>Advanced Electronic Materials</i> , 2019, 5, 1800714.	5.1	47
20	Application of Atom Probe Tomography for Advancing GaN Based Technology. <i>International Journal of High Speed Electronics and Systems</i> , 2019, 28, 1940005.	0.7	4
21	Prediction of optical band gap of $\text{In}^{2-}(\text{Al} \times \text{Ga} 1-x) 2 \text{O} 3$ using material informatics. <i>Materials Discovery</i> , 2018, 11, 1-5.	3.3	14
22	Isolating Clusters of Light Elements in Molecular Sieves with Atom Probe Tomography. <i>Journal of the American Chemical Society</i> , 2018, 140, 9154-9158.	13.7	27
23	Vertical transport through AlGaN barriers in heterostructures grown by ammonia molecular beam epitaxy and metalorganic chemical vapor deposition. <i>Semiconductor Science and Technology</i> , 2017, 32, 025010.	2.0	11
24	Resolving the degradation pathways in high-voltage oxides for high-energy-density lithium-ion batteries; Alternation in chemistry, composition and crystal structures. <i>Nano Energy</i> , 2017, 36, 76-84.	16.0	30
25	New Atom Probe Tomography Reconstruction Algorithm for Multilayered Samples: Beyond the Hemispherical Constraint. <i>Microscopy and Microanalysis</i> , 2017, 23, 247-254.	0.4	15
26	Characterization of N-polar AlN in GaN/AlN/(Al,Ga)N heterostructures grown by metal-organic chemical vapor deposition. <i>Semiconductor Science and Technology</i> , 2017, 32, 115004.	2.0	6
27	Nanoscale Chemical Imaging of Coking Mechanisms in a Zeolite ZSM-5 Crystal by Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2017, 23, 674-675.	0.4	5
28	Analysis of Vegard's law for lattice matching $\text{In}_x\text{Al}_{1-x}\text{N}$ to GaN by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2017, 475, 127-135.	1.5	11
29	Field Evaporation Behavior of Ternary Compound Semiconductor $\text{In}_x\text{Al}_{1-x}\text{N}$. <i>Microscopy and Microanalysis</i> , 2017, 23, 636-637.	0.4	0
30	Coke Formation in a Zeolite Crystal During the Methanol-to-Hydrocarbons Reaction as Studied with Atom Probe Tomography. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11173-11177.	13.8	74
31	Exploring Helium Mitigation in Ferritic Alloys by Advanced Microscopy. <i>Microscopy and Microanalysis</i> , 2015, 21, 753-754.	0.4	4
32	Electron transport in unipolar InGaN/GaN multiple quantum well structures grown by NH_3 molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	42
33	Pure AlN layers in metal-polar AlGaN/AlN/GaN and AlN/GaN heterostructures grown by low-temperature ammonia-based molecular beam epitaxy. <i>Semiconductor Science and Technology</i> , 2015, 30, 055010.	2.0	26
34	Demonstration of isotype GaN/AlN/GaN heterobarrier diodes by NH_3 -molecular beam epitaxy. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	8
35	Atom probe tomography studies of Al_2O_3 gate dielectrics on GaN. <i>Journal of Applied Physics</i> , 2014, 116, 134101.	2.5	12
36	GaN-based high-electron-mobility transistor structures with homogeneous lattice-matched InAlN barriers grown by plasma-assisted molecular beam epitaxy. <i>Semiconductor Science and Technology</i> , 2014, 29, 045011.	2.0	42

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37	Atom probe analysis of AlN interlayers in AlGaN/AlN/GaN heterostructures. Applied Physics Letters, 2013, 102, .	3.3	62
38	Characterization of a dielectric/GaN system using atom probe tomography. Applied Physics Letters, 2013, 103, .	3.3	8
39	Atom Probe Tomography of Compound Semiconductors for Photovoltaic and Light-Emitting Device Applications. Microscopy Today, 2012, 20, 18-24.	0.3	25
40	Field emission studies of silver nanoparticles synthesized by electron cyclotron resonance plasma. Applied Surface Science, 2011, 257, 7184-7189.	6.1	2
41	Bio-milling technique for the size reduction of chemically synthesized BiMnO ₃ nanoplates. Journal of Materials Chemistry, 2007, 17, 3910.	6.7	25
42	A comprehensive review on the effects of local microstructures and nanoscale chemical features on B-III-nitride films. Journal of Materials Research, 0, , 1.	2.6	1