

Joseph Kioseoglou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122
papers

1,269
citations

19
h-index

29
g-index

129
ext. papers

1,428
ext. citations

3.9
avg, IF

4.47
L-index

#	Paper	IF	Citations
122	p-Type Iodine-Doping of Cu ₃ N and Its Conversion to δ -CuI for the Fabrication of δ -CuI/Cu ₃ N p-n Heterojunctions. <i>Electronic Materials</i> , 2022 , 3, 15-26	0.8	1
121	Modulating the growth of chemically deposited ZnO nanowires and the formation of nitrogen- and hydrogen-related defects using pH adjustment. <i>Nanoscale Advances</i> , 2022 , 4, 1793-1807	5.1	1
120	Cost effective modification of SmCo ₅ -type alloys. <i>AIP Advances</i> , 2022 , 12, 035343	1.5	
119	Data-driven simulation and characterisation of gold nanoparticle melting. <i>Nature Communications</i> , 2021 , 12, 6056	17.4	4
118	Ab Initio Study of the Electron-Phonon Coupling in Ultrathin Al Layers. <i>Journal of Low Temperature Physics</i> , 2021 , 203, 180-193	1.3	
117	Machine Learning in Magnetic Materials. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2000600	1.3	2
116	Engineering nitrogen- and hydrogen-related defects in ZnO nanowires using thermal annealing. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
115	Machine-learning interatomic potential for W-Mo alloys. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	5
114	NanoMaterialsCAD: Flexible Software for the Design of Nanostructures. <i>Advanced Theory and Simulations</i> , 2021 , 4, 2000232	3.5	0
113	Impact of Oxygen on the Properties of Cu ₃ N and Cu ₃ N _{1-x} O _x . <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3680-3688	3.8	5
112	Large out-of-plane piezoelectric response of wurtzite InN under biaxial strain. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2021 , 29, 065013	2	2
111	Structural and magnetic properties of SmCo _{5-x} Ni _x intermetallic compounds. <i>Journal of Alloys and Compounds</i> , 2021 , 882, 160699	5.7	3
110	Zinc Vacancy-Hydrogen Complexes as Major Defects in ZnO Nanowires Grown by Chemical Bath Deposition. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16652-16662	3.8	14
109	Decorated Dislocations against Phonon Propagation for Thermal Management. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2682-2694	6.1	5
108	Observation of the Direct Energy Band Gaps of Defect-Tolerant Cu ₃ N by Ultrafast Pump-Probe Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3459-3469	3.8	9
107	Modeling the structural characterization of nanostructures. <i>Frontiers of Nanoscience</i> , 2020 , 17, 207-227	0.7	
106	Observation of Metal to Metal Oxide Progression: A Study of Charge Transfer Phenomenon at Ru-CuO Interfaces. <i>ACS Nano</i> , 2019 , 13, 12425-12437	16.7	16

105	Atomic-resolution imaging of surface and core melting in individual size-selected Au nanoclusters on carbon. <i>Nature Communications</i> , 2019 , 10, 2583	17.4	27
104	Epitaxially Oriented Sn:In ₂ O ₃ Nanowires Grown by the Vapor-Liquid-Solid Mechanism on m-, r-, a-Al ₂ O ₃ as Scaffolds for Nanostructured Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4274-4283	6.1	3
103	Computational Modeling of Nanoparticle Coalescence. <i>Advanced Theory and Simulations</i> , 2019 , 2, 19000135	13.5	44
102	Core properties and the role of screw dislocations in the bulk n-type conductivity in InN. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 15767-15778	3.6	2
101	Single Nanoparticle Activities in Ensemble: A Study on Pd Cluster Nanoportals for Electrochemical Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26124-26135	3.8	10
100	Structural, Electronic and Vibrational Properties of Al ₄ C ₃ . <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900037	1.3	3
99	Nanoassemblies of ultrasmall clusters with remarkable activity in carbon dioxide conversion into C1 fuels. <i>Nanoscale</i> , 2019 , 11, 4683-4687	7.7	6
98	Emergence of valley selectivity in monolayer tin(II) sulphide. <i>Nanoscale Advances</i> , 2019 , 1, 4863-4869	5.1	1
97	Hydrogen Storage: Hydrogen Flux through Size Selected Pd Nanoparticles into Underlying Mg Nanofilms (Adv. Energy Mater. 4/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870016	21.8	1
96	Impact of screw and edge dislocations on the thermal conductivity of individual nanowires and bulk GaN: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 5159-5172	3.6	16
95	Hydrogen Flux through Size Selected Pd Nanoparticles into Underlying Mg Nanofilms. <i>Advanced Energy Materials</i> , 2018 , 8, 1701326	21.8	21
94	First-principles calculations of threading screw dislocations in AlN and InN. <i>Physical Review Materials</i> , 2018 , 2,	3.2	2
93	3-D Strain Fields in Low-Dimensional III-V Semiconductors: A Combined Finite Elements and HRTEM Approach. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1700409	1.6	1
92	Enhanced thermal conductivity in percolating nanocomposites: a molecular dynamics investigation. <i>Nanoscale</i> , 2018 , 10, 21732-21741	7.7	8
91	quantum transport in AB-stacked bilayer penta-silicene using atomic orbitals.. <i>RSC Advances</i> , 2018 , 8, 34041-34046	3.7	3
90	Hole-Doped 2D InSe for Spintronic Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6656-6665	5.6	23
89	Structural and electronic properties of a-edge dislocations along <1-100> in GaN. <i>Journal of Applied Physics</i> , 2018 , 123, 244301	2.5	4
88	Mechanism and crucial parameters on GaN nanocluster formation in a silica matrix. <i>Journal of Applied Physics</i> , 2017 , 121, 054301	2.5	7

87	Strain and elastic constants of GaN and InN. <i>Computational Condensed Matter</i> , 2017 , 10, 25-30	1.7	5
86	Intrinsic point defects in buckled and puckered arsenene: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 9862-9871	3.6	36
85	Strain field determination in III ν heteroepitaxy coupling finite elements with experimental and theoretical techniques at the nanoscale. <i>Journal of the Mechanical Behavior of Materials</i> , 2017 , 26, 1-8	1.9	
84	Thermal Oxidation of Size-Selected Pd Nanoparticles Supported on CuO Nanowires: The Role of the CuO/Pd Interface. <i>Chemistry of Materials</i> , 2017 , 29, 6153-6160	9.6	19
83	Ab initio investigation of the AlN:Er system. <i>Computational Materials Science</i> , 2017 , 138, 128-134	3.2	4
82	Tuning the onset of ferromagnetism in heterogeneous bimetallic nanoparticles by gas phase doping. <i>Physical Review Materials</i> , 2017 , 1,	3.2	19
81	Structural Properties and Defects of III-Nitride Semiconductors at the Nanoscale 2017 , 237-277		
80	Ab-initio electronic structure calculations and properties of [SixSn1-x]3N4 ternary nitrides. <i>Thin Solid Films</i> , 2016 , 613, 43-47	2.2	3
79	Enhanced Stark Tuning of Single InAs (211)B Quantum Dots due to Nonlinear Piezoelectric Effect in Zincblende Nanostructures. <i>Physical Review Applied</i> , 2016 , 6,	4.3	8
78	Quantitative evaluation of the (211)B GaAs/InAs quantum dot heterostructure 2016 , 588-589		
77	Ordered structures in III-Nitride ternary alloys. <i>Computational Materials Science</i> , 2016 , 118, 22-31	3.2	8
76	The Metalorganic Vapour Phase Epitaxy Growth of AllIBVHeterostructures Observed by Reflection Anisotropy Spectroscopy. <i>Acta Physica Polonica A</i> , 2016 , 129, A-75-A-78	0.6	1
75	Structure, strain, and composition profiling of InAs/GaAs(211)B quantum dot superlattices. <i>Journal of Applied Physics</i> , 2016 , 119, 034304	2.5	6
74	The influence of structural characteristics on the electronic and thermal properties of GaN/AlN core/shell nanowires. <i>Journal of Applied Physics</i> , 2016 , 119, 074304	2.5	7
73	Kinetic trapping through coalescence and the formation of patterned Ag-Cu nanoparticles. <i>Nanoscale</i> , 2016 , 8, 9780-90	7.7	61
72	Interfacial properties of self-assembled GaN nanowires on pre-processed Al ₂ O ₃ (0001) surfaces. <i>Materials Science in Semiconductor Processing</i> , 2016 , 55, 46-50	4.3	2
71	Energetic, structural and electronic properties of metal vacancies in strained AlN/GaN interfaces. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 125006	1.8	4
70	Structural and electronic properties of GaN nanowires with embedded In _x Ga _{1-x} N nanodisks. <i>Journal of Applied Physics</i> , 2015 , 118, 034301	2.5	11

69	Nanostructure and strain properties of core-shell GaAs/AlGaAs nanowires. <i>Semiconductor Science and Technology</i> , 2015 , 30, 114012	1.8	5
68	MOVPE prepared InAs/GaAs quantum dots covered by GaAsSb layer with long wavelength emission at 1.8 μm . <i>Journal of Crystal Growth</i> , 2015 , 414, 167-171	1.6	8
67	Structural and electronic properties of elastically strained InN/GaN quantum well multilayer heterostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 289-292		4
66	Thermal oxidation and facet-formation mechanisms of Si nanowires. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 307-311	2.5	1
65	Selective area growth of well-ordered ZnO nanowire arrays with controllable polarity. <i>ACS Nano</i> , 2014 , 8, 4761-70	16.7	70
64	Broad compositional tunability of indium tin oxide nanowires grown by the vapor-liquid-solid mechanism. <i>APL Materials</i> , 2014 , 2, 056104	5.7	17
63	Endotaxially stabilized B ₂ -FeSi nanodots in Si (100) via ion beam co-sputtering. <i>Applied Physics Letters</i> , 2014 , 104, 161903	3.4	7
62	Self-annihilation of inversion domains by high energy defects in III-Nitrides. <i>Applied Physics Letters</i> , 2014 , 104, 141914	3.4	5
61	Effect of the lower and upper interfaces on the quality of InAs/GaAs quantum dots. <i>Applied Surface Science</i> , 2014 , 301, 173-177	6.7	10
60	Nanostructure and strain in InGaN/GaN superlattices grown in GaN nanowires. <i>Nanotechnology</i> , 2013 , 24, 435702	3.4	49
59	Ultrafast pulsed laser deposition of carbon nanostructures: Structural and optical characterization. <i>Applied Surface Science</i> , 2013 , 278, 101-105	6.7	9
58	Structural properties of SnO ₂ nanowires and the effect of donor like defects on its charge distribution. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 226-229	1.6	9
57	Atomic scale modeling of edge a-type dislocations in InN. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 204-208	1.6	8
56	Structural and electronic properties of InGaN/GaN nanowires by the use of EELS. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013 , 10, 105-108		1
55	Si nanostructures grown by picosecond high repetition rate pulsed laser deposition. <i>Applied Surface Science</i> , 2013 , 278, 67-70	6.7	4
54	Electron energy loss near edge structure of In _x Al _{1-x} N alloys. <i>Microelectronic Engineering</i> , 2013 , 112, 198-203	2.5	3
53	Atomic scale morphology, growth behaviour and electronic properties of semipolar {101 $\bar{1}$ } GaN surfaces. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 045008	1.8	2
52	Nanostructural and electronic properties of polytypes in InN nanocolumns. <i>Journal of Applied Physics</i> , 2013 , 114, 074312	2.5	3

51	Combined vertically correlated InAs and GaAsSb quantum dots separated by triangular GaAsSb barrier. <i>Journal of Applied Physics</i> , 2013 , 114, 174305	2.5	8
50	Interfaces between nonpolar and semipolar III-nitride semiconductor orientations: Structure and defects. <i>Journal of Applied Physics</i> , 2012 , 111, 033507	2.5	4
49	Effect of doping on screw threading dislocations in AlN and their role as conductive nanowires. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 484-487		2
48	Atomistic modeling and HRTEM analysis of misfit dislocations in InN/GaN heterostructures. <i>Applied Surface Science</i> , 2012 , 260, 23-28	6.7	5
47	Reconstructions and electronic structure of (112 $\bar{1}$) and (112 $\bar{1}$) semipolar AlN surfaces. <i>Journal of Applied Physics</i> , 2012 , 112, 033510	2.5	7
46	Indium adsorption and incorporation mechanisms in AlN. <i>Journal of Materials Science</i> , 2011 , 46, 4377-4383	3.3	4
45	Effect of edge threading dislocations on the electronic structure of InN. <i>Applied Physics Letters</i> , 2011 , 98, 072103	3.4	22
44	Screw threading dislocations in AlN: Structural and electronic properties of In and O doped material. <i>Journal of Applied Physics</i> , 2011 , 110, 053715	2.5	13
43	Electronic structure of 1/6<202 $\bar{1}$ > partial dislocations in wurtzite GaN. <i>Journal of Applied Physics</i> , 2011 , 109, 083511	2.5	15
42	Nonlinear Finite Element and Atomistic Modelling of Dislocations in Heterostructures. <i>Advanced Structured Materials</i> , 2010 , 239-253	0.6	
41	Morphology and strain of self-assembled semipolar GaN quantum dots in (112 $\bar{1}$) AlN. <i>Journal of Applied Physics</i> , 2010 , 108, 104304	2.5	20
40	Microstructure of N-face InN grown on Si (111) by plasma-assisted MBE using a thin GaN/AlN buffer layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 1074-1078	1.6	6
39	Mechanism of compositional modulations in epitaxial InAlN films grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2009 , 95, 021913	3.4	46
38	Indium migration paths in V-defects of InAlN grown by metal-organic vapor phase epitaxy. <i>Applied Physics Letters</i> , 2009 , 95, 071905	3.4	60
37	Strain accommodation and interfacial structure of AlN interlayers in GaN. <i>Crystal Research and Technology</i> , 2009 , 44, 1170-1180	1.3	5
36	Nonsingular dislocation and crack fields: implications to small volumes. <i>Microsystem Technologies</i> , 2009 , 15, 117-121	1.7	10
35	Magnesium adsorption and incorporation in InN (0001) and surfaces: A first-principles study. <i>Applied Surface Science</i> , 2009 , 255, 8475-8482	6.7	3
34	Core models of a-edge threading dislocations in wurtzite III(Al,Ga,In)-nitrides. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 1931-1935	1.6	12

33	Polar AlN/GaN interfaces: Structures and energetics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 1892-1897	1.6	17
32	Energetics of oxygen adsorption and incorporation at InN polar surface: A first-principles study. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, S364-S367		2
31	Electron Microscopy Characterization of a Graded AlN/GaN Multilayer Grown by Plasma-Assisted MBE. <i>Springer Proceedings in Physics</i> , 2008 , 66-68	0.2	
30	Dislocation core investigation by geometric phase analysis and the dislocation density tensor. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 035408	3	37
29	Microstructure of defects in InGaN/GaN quantum well heterostructures. <i>Journal of Physics: Conference Series</i> , 2008 , 126, 012048	0.3	2
28	Crystallization of amorphous silicon thin films: comparison between experimental and computer simulation results. <i>Journal of Materials Science</i> , 2008 , 43, 3976-3981	4.3	
27	Study of InN/GaN interfaces using molecular dynamics. <i>Journal of Materials Science</i> , 2008 , 43, 3982-3988	4.3	13
26	Electron microscopy investigation of extended defects in a-plane gallium nitride layers grown on r-plane sapphire by molecular beam epitaxy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 3748-3751		6
25	Defect characterization and analysis of III-V nanowires grown by Ni-promoted MBE. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 2589-2592	1.6	7
24	Strain relaxation in AlN/GaN heterostructures grown by molecular beam epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 2569-2572	1.6	9
23	Interatomic potential calculations of III(Al, In) planar defects with a III-species environment approach. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 1118-1124	1.3	18
22	Misfit analysis of the InN/GaN interface through HRTEM image simulations 2008 , 651-652		
21	Misfit reduction by a spinel layer formed during the epitaxial growth of ZnO on sapphire using a MgO buffer layer. <i>Journal of Crystal Growth</i> , 2007 , 308, 314-320	1.6	18
20	3D modelling of misfit networks in the interface region of heterostructures. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 4084-4091	3	11
19	Strain distribution of thin InN epilayers grown on (0001) GaN templates by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2007 , 90, 061920	3.4	11
18	Structural properties of quaternary InAlGaIn MQW grown by plasma-assisted MBE. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 2151-2155	1.6	
17	Analysis of partial dislocations in wurtzite GaN using gradient elasticity. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 2161-2166	1.6	20
16	Mixed partial dislocation core structure in GaN by high resolution electron microscopy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 2156-2160	1.6	8

15	Energetics of the 30° Shockley partial dislocation in wurtzite GaN. <i>Superlattices and Microstructures</i> , 2006 , 40, 458-463	2.8	9
14	Atomic simulations and HRTEM observations of a 18° tilt grain boundary in GaN. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005 , 202, 799-803	1.6	2
13	Partial dislocations in wurtzite GaN. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005 , 202, 2888-2899	1.6	21
12	Twin formation in sputter-grown ZnO/Al ₂ O ₃ (0001) epitaxial film: A real time x-ray scattering study. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004 , 22, 2159-2162	2.9	4
11	Atomic structures and energies of partial dislocations in wurtzite GaN. <i>Physical Review B</i> , 2004 , 70,	3.3	27
10	Junction lines of inversion domain boundaries with stacking faults in GaN. <i>Physical Review B</i> , 2004 , 70,	3.3	10
9	Microstructural assessment of InN-on-GaN films grown by plasma-assisted MBE. <i>Superlattices and Microstructures</i> , 2004 , 36, 509-515	2.8	11
8	Microstructure of planar defects and their interactions in wurtzite GaN films. <i>Solid-State Electronics</i> , 2003 , 47, 553-557	1.7	11
7	Atomic structure and energy of junctions between inversion domain boundaries and stacking faults in wurtzite GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 2464-2469		1
6	A modified empirical potential for energetic calculations of planar defects in GaN. <i>Computational Materials Science</i> , 2003 , 27, 43-49	3.2	39
5	Interfacial and defect structures in multilayered GaN/AlN films. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 13277-13283	1.8	7
4	Atomic-scale models of interactions between inversion domain boundaries and intrinsic basal stacking faults in GaN. <i>Diamond and Related Materials</i> , 2002 , 11, 905-909	3.5	8
3	Structural transition of inversion domain boundaries through interactions with stacking faults in epitaxial GaN. <i>Physical Review B</i> , 2001 , 64,	3.3	24
2	Interaction Between Basal Stacking Faults and Prismatic Inversion Domain Boundaries in GaN. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 639, 3441		1
1	Microstructure of GaN Films Grown by RF-Plasma Assisted Molecular Beam Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 639, 3471		8