

# Augustinas Galeckas

## List of Publications by Citations

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143  
papers

2,273  
citations

24  
h-index

43  
g-index

151  
ext. papers

2,524  
ext. citations

3  
avg, IF

4.76  
L-index

#	Paper	IF	Citations
143	Analysis of the stretched exponential photoluminescence decay from nanometer-sized silicon crystals in SiO <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 6128-6134	2.5	295
142	Recombination-enhanced extension of stacking faults in 4H-SiC p-i-n diodes under forward bias. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 883-885	3.4	154
141	Zinc vacancy and oxygen interstitial in ZnO revealed by sequential annealing and electron irradiation. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	129
140	Recombination-induced stacking faults: evidence for a general mechanism in hexagonal SiC. <i>Physical Review Letters</i> , <b>2006</b> , 96, 025502	7.4	109
139	Auger recombination in 4H-SiC: Unusual temperature behavior. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 3269-3274	3.7	97
138	Deep level related photoluminescence in ZnMgO. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 211901	3.4	58
137	Optical characterization of excess carrier lifetime and surface recombination in 4H/6H SiC. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 365-367	3.4	52
136	Precursor-Dependent Blue-Green Photoluminescence Emission of ZnO Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 25227-25233	3.8	48
135	Understanding phase separation in ZnCdO by a combination of structural and optical analysis. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	43
134	Unusual Photoluminescence of CaHfO <sub>3</sub> and SrHfO <sub>3</sub> Nanoparticles. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1174-1179	15.6	42
133	A Review of the Synthesis and Photoluminescence Properties of Hybrid ZnO and Carbon Nanomaterials. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-12	3.2	41
132	Combined photoluminescence-imaging and deep-level transient spectroscopy of recombination processes at stacking faults in 4H SiC. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	40
131	Fundamental band edge absorption in nominally undoped and doped 4H-SiC. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 123521	2.5	39
130	Application of optical emission microscopy for reliability studies in 4H SiC p+/n/n+ diodes. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 980-984	2.5	38
129	Electrical charge state identification and control for the silicon vacancy in 4H-SiC. <i>Npj Quantum Information</i> , <b>2019</b> , 5,	8.6	38
128	Influence of graphene synthesizing techniques on the photocatalytic performance of graphene-TiO <sub>2</sub> nanocomposites. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 15528-37	3.6	37
127	Time-resolved photoluminescence characterization of nm-sized silicon crystallites in SiO <sub>2</sub> . <i>Thin Solid Films</i> , <b>1997</b> , 297, 167-170	2.2	36

126	One step synthesis of pure cubic and monoclinic HfO <sub>2</sub> nanoparticles: Correlating the structure to the electronic properties of the two polymorphs. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 104107	2.5	35
125	Cubic silicon carbide as a potential photovoltaic material. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 145, 104-108	6.4	32
124	Improvement of an X-ray imaging detector based on a scintillating guides screen. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 487, 129-135	1.2	31
123	Engineering of optically defect free Cu <sub>2</sub> O enabling exciton luminescence at room temperature. <i>Optical Materials Express</i> , <b>2013</b> , 3, 2072	2.6	30
122	Optical activity and defect/dopant evolution in ZnO implanted with Er. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 125703	2.5	29
121	Temperature Dependence of the Absorption Coefficient in 4H- and 6H-Silicon Carbide at 355 nm Laser Pumping Wavelength. <i>Physica Status Solidi A</i> , <b>2002</b> , 191, 613-620		26
120	Time-resolved analysis of the white photoluminescence from SiO <sub>2</sub> films after Si and C coimplantation. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 25-27	3.4	24
119	Evaluation of Auger Recombination Rate in 4H-SiC. <i>Materials Science Forum</i> , <b>1998</b> , 264-268, 533-536	0.4	24
118	Solid-state photoelectrochemical H <sub>2</sub> generation with gaseous reactants. <i>Electrochimica Acta</i> , <b>2013</b> , 97, 320-325	6.7	23
117	Photoluminescent cubic and monoclinic HfO <sub>2</sub> nanoparticles: effects of temperature and ambient. <i>Materials Research Express</i> , <b>2014</b> , 1, 015035	1.7	23
116	Free carrier absorption and lifetime mapping in 4H SiC epilayers. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 3522-3525	2.5	23
115	On the mechanism of enhanced photocatalytic activity of composite TiO <sub>2</sub> /carbon nanofilms. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 106, 337-342	21.8	22
114	Conversion pathways of primary defects by annealing in proton-irradiated n-type 4H-SiC. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	20
113	Tuning light absorption by band gap engineering in ZnCdO as a function of MOVPE-synthesis conditions and annealing. <i>Journal of Crystal Growth</i> , <b>2011</b> , 315, 301-304	1.6	20
112	Time-resolved imaging of radiative recombination in 4H-BiC p-i-n diode. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 3398-3400	3.4	19
111	Investigation of surface recombination and carrier lifetime in 4H/6H-SiC. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1999</b> , 61-62, 239-243	3.1	19
110	Improving carrier transport in CuO thin films by rapid thermal annealing. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 075702	1.8	17
109	. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 2105-2111	1.7	17

108	One-dimensional WO <sub>3</sub> and its hydrate: One-step synthesis, structural and spectroscopic characterization. <i>Journal of Solid State Chemistry</i> , <b>2012</b> , 185, 245-252	3.3	17
107	Structural and optical properties of polar and non-polar ZnO films grown by MOVPE. <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 5020-5024	1.6	17
106	Single dot optical spectroscopy of silicon nanocrystals: low temperature measurements. <i>Optical Materials</i> , <b>2005</b> , 27, 973-976	3.3	16
105	Selective nano-emitter fabricated by silver assisted chemical etch-back for multicrystalline solar cells. <i>RSC Advances</i> , <b>2013</b> , 3, 15483	3.7	15
104	Ge redistribution in SiO <sub>2</sub> /SiGe structures under thermal oxidation: Dynamics and predictions. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 024308	2.5	15
103	Self-diffusion measurements in isotopic heterostructures of undoped and in situ doped ZnO: Zinc vacancy energetics. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	14
102	Size-reduced silicon nanowires: Fabrication and electrical characterization. <i>Materials Science and Engineering C</i> , <b>2005</b> , 25, 733-737	8.3	14
101	Carrier lifetime investigation in 4HβiC grown by CVD and sublimation epitaxy. <i>Materials Science in Semiconductor Processing</i> , <b>2001</b> , 4, 191-194	4.3	14
100	Influence of the Interface on the Photoluminescence Properties in ZnO Carbon-Based Nanohybrids. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 14879-14887	3.8	12
99	Photoluminescence of reactively sputtered Ag <sub>2</sub> O films. <i>Thin Solid Films</i> , <b>2013</b> , 536, 156-159	2.2	11
98	Ge concentrations in pile-up layers of sub-100-nm SiGe films for nano-structuring by thermal oxidation. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2012</b> , 30, 041212	1.3	11
97	Tunneling in ZnO/ZnCdO quantum wells towards next generation photovoltaic cells. <i>Solar Energy</i> , <b>2014</b> , 106, 82-87	6.8	10
96	ALD Applied to Conformal Coating of Nanoporous Al <sub>2</sub> O <sub>3</sub> : Spinel Formation and Luminescence Induced by Europium Doping. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, P45-P49	3.9	10
95	Investigation of Electroluminescence across 4H-SiC p+/n-/n+ Structures Using Optical Emission Microscopy. <i>Materials Science Forum</i> , <b>2001</b> , 353-356, 389-392	0.4	10
94	Photocurrent generation in carbon nanotube/cubic-phase HfO <sub>2</sub> nanoparticle hybrid nanocomposites. <i>Beilstein Journal of Nanotechnology</i> , <b>2016</b> , 7, 1075-85	3	10
93	Normal and reverse defect annealing in ion implanted II-VI oxide semiconductors. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 115701	2.5	9
92	Testing ZnO based photoanodes for PEC applications. <i>Energy Procedia</i> , <b>2012</b> , 22, 101-107	2.3	9
91	Effect of substrate proximity on luminescence yield from Si nanocrystals. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 111124	3.4	9

90	Characterization of carrier lifetime and diffusivity in 4H-SiC using time-resolved imaging spectroscopy of electroluminescence. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2003</b> , 102, 304-307	3.1	9
89	Determination of the Polarization Dependence of the Free-Carrier-Absorption in 4H-SiC at High-Level Photoinjection. <i>Materials Science Forum</i> , <b>2000</b> , 338-342, 555-558	0.4	9
88	Effects of temperature, triazole and hot-pressing on the performance of TiO <sub>2</sub> photoanode in a solid-state photoelectrochemical cell. <i>Electrochimica Acta</i> , <b>2014</b> , 115, 66-74	6.7	8
87	Nano-structuring in SiGe by oxidation induced anisotropic Ge self-organization. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 104310	2.5	8
86	(Invited) Degradation of SiC Bipolar Devices: A Review of Likely Causes and Recent Advances in its Understanding. <i>ECS Transactions</i> , <b>2011</b> , 41, 225-236	1	8
85	Band edge absorption, carrier recombination and transport measurements in 4H-SiC epilayers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1999</b> , 61-62, 197-201	3.1	8
84	Role of intrinsic and extrinsic defects in H implanted hydrothermally grown ZnO. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 125707	2.5	7
83	Non-Equilibrium Carrier Dynamics in a-Si:H/a-SiC:H Multilayers. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 258, 553		7
82	Improvements in Realizing 4H-SiC Thermal Neutron Detectors. <i>EPJ Web of Conferences</i> , <b>2016</b> , 106, 05004	4.3	7
81	The temperature-dependency of the optical band gap of ZnO measured by electron energy-loss spectroscopy in a scanning transmission electron microscope. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 145117	2.5	6
80	A comparative analysis of oxidation rates for thin films of SiGe versus Si. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 1934-1939	1.6	6
79	Optical absorption related to Fe impurities in TlGaSe <sub>2</sub> . <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2011</b> , 208, 2186-2192	1.6	6
78	An investigation of Fe-doped ZnO thin films grown by magnetron sputtering. <i>Physica Scripta</i> , <b>2010</b> , T141, 014004	2.6	6
77	ALD Applied to Conformal Coating of Nanoporous $\gamma$ -Alumina: Spinel Formation and Luminescence Induced by Europium Doping. <i>ECS Transactions</i> , <b>2011</b> , 41, 123-130	1	6
76	Two-Photon Spectroscopy of 4H-SiC by Using Laser Pulses at Below-Gap Frequencies. <i>Materials Science Forum</i> , <b>2004</b> , 457-460, 605-608	0.4	6
75	Microstructural Aspects and Mechanism of Degradation of 4H-SiC PiN Diodes under Forward Biasing. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 815, 223		6
74	In Situ Studies of Structural Instability in Operating 4H-SiC PiN Diodes. <i>Materials Science Forum</i> , <b>2003</b> , 433-436, 933-936	0.4	6
73	Depth- and Time-Resolved Free Carrier Absorption in 4H SiC Epilayers: A Study of Carrier Recombination and Transport Parameters. <i>Materials Science Forum</i> , <b>1998</b> , 264-268, 529-532	0.4	6

72	Nonlinear optical investigation of silicon carbide surface properties. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1992</b> , 65, 357-360	1.2	6
71	Visible Light Driven Photocatalytic Decolorization and Disinfection of Water Employing Reduced TiO <sub>2</sub> Nanopowders. <i>Catalysts</i> , <b>2021</b> , 11, 228	4	6
70	Selective photocurrent generation in HfO <sub>2</sub> and carbon nanotube hybrid nanocomposites under Ultra-Violet and visible photoexcitations. <i>Materials Letters</i> , <b>2019</b> , 246, 45-48	3.3	5
69	Influence of hydrogen implantation on emission from the silicon vacancy in 4H-SiC. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 085701	2.5	5
68	Impact of post annealing and hydrogen implantation on functional properties of Cu <sub>2</sub> O thin films for photovoltaic applications. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 825, 153982	5.7	5
67	Boron-Implanted 3C-SiC for Intermediate Band Solar Cells. <i>Materials Science Forum</i> , <b>2016</b> , 858, 291-294	0.4	5
66	Broad luminescence from donor-complexed LiZn and NaZn acceptors in ZnO. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	5
65	Time-Resolved Photoluminescence from nm-Sized Silicon Crystallites In SiO <sub>2</sub> . <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 486, 249		5
64	Investigation of Stacking Fault Formation in Hydrogen Bombarded 4H-SiC. <i>Materials Science Forum</i> , <b>2005</b> , 483-485, 327-330	0.4	5
63	Spatially and time-resolved infrared absorption for optical and electrical characterization of indirect band gap semiconductors. <i>Thin Solid Films</i> , <b>2000</b> , 364, 181-185	2.2	5
62	Evidence of defect band mechanism responsible for band gap evolution in (ZnO) <sub>1-x</sub> (GaN) <sub>x</sub> alloys. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	4
61	PL and DLTS Analysis of Carbon-Related Centers in Irradiated P-Type Cz-Si. <i>Solid State Phenomena</i> , <b>2013</b> , 205-206, 224-227	0.4	4
60	Nuclear Radiation Detectors Based on 4H-SiC p+-n Junction. <i>Materials Science Forum</i> , <b>2014</b> , 778-780, 1046-1049	0.4	4
59	Structural, optical and electrical properties of reactively sputtered Ag <sub>2</sub> Cu <sub>2</sub> O <sub>3</sub> films. <i>Thin Solid Films</i> , <b>2011</b> , 520, 230-234	2.2	4
58	Characterization of 4H-SiC Band-Edge Absorption Properties by Free-Carrier Absorption Technique with a Variable Excitation Spectrum. <i>Materials Science Forum</i> , <b>2002</b> , 389-393, 617-620	0.4	4
57	Carrier Relaxation in a-Si:H/a-SiC:H Multilayers Studied by Picosecond Transient Reflectometry. <i>Physica Status Solidi (B): Basic Research</i> , <b>1995</b> , 190, 587-593	1.3	4
56	Optical signatures of single ion tracks in ZnO. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 724-733	5.1	4
55	Strain Modulation of Si Vacancy Emission from SiC Micro- and Nanoparticles. <i>Nano Letters</i> , <b>2020</b> , 20, 8689-8695	1.5	4

54	Muon Interaction with Negative-U and High-Spin-State Defects: Differentiating Between C and Si Vacancies in 4H-SiC. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	4
53	The influence of Fe impurities on the annealing of OH $\pi$ i complexes in ZnO. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 273-278	1.3	4
52	Metal oxide nanoparticles embedded in rare-earth matrix for low temperature thermal imaging applications. <i>Materials Research Express</i> , <b>2016</b> , 3, 055010	1.7	4
51	Surface Effects and Optical Properties of Self-Assembled Nanostructured $\alpha$ -Si:Al. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	3
50	Annealing Kinetics of the Interstitial CarbonDioxygen Complex in Silicon. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1800986	1.6	3
49	Engineering of nearly strain-free ZnO films on Si(1 1 1) by tuning AlN buffer thickness. <i>Physica B: Condensed Matter</i> , <b>2012</b> , 407, 1476-1480	2.8	3
48	Basic optical and electronic properties of Ag <sub>2</sub> Cu <sub>2</sub> O <sub>3</sub> crystalline films. <i>Thin Solid Films</i> , <b>2013</b> , 531, 185-188.	2	3
47	Optical Investigation of the Built-In Strain in 3C-SiC Epilayers. <i>Materials Science Forum</i> , <b>2004</b> , 457-460, 657-660	0.4	3
46	Optical Emission Microscopy of Structural Defects in 4H-SiC PiN Diodes. <i>Materials Science Forum</i> , <b>2002</b> , 389-393, 431-434	0.4	3
45	Optical Characterization of 4H-SiC p+n-n+ Structures Applying Time- and Spectrally Resolved Emission Microscopy. <i>Materials Science Forum</i> , <b>2000</b> , 338-342, 683-686	0.4	3
44	Electron Beam Induced Current Investigation of High-Voltage 4H Silicon Carbide Diodes. <i>Materials Science Forum</i> , <b>2000</b> , 338-342, 777-780	0.4	3
43	Temporal and spatial investigation of 6 H-SiC by picosecond pulse excitation. <i>Physica Status Solidi A</i> , <b>1995</b> , 151, 219-229		3
42	Ambipolar Diffusion Coefficients in $\alpha$ -SiC:H Alloys in Steady-State and Transient Grating Measurements. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 297, 497		3
41	Optical second harmonic generation in reflection from silicon carbide films. <i>Surface and Interface Analysis</i> , <b>1992</b> , 18, 71-72	1.5	3
40	Controllable template approach for ZnO nanowire growth. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2017</b> , 214, 1600480	1.6	2
39	Depth-Resolved Carrier Lifetime Measurements in 4H-SiC Epilayers Monitoring Carbon Vacancy Elimination. <i>Materials Science Forum</i> , <b>2017</b> , 897, 258-261	0.4	2
38	Local homoepitaxy of zinc oxide thin films by magnetron sputtering. <i>Thin Solid Films</i> , <b>2016</b> , 601, 18-21	2.2	2
37	Photoluminescence Properties of Photochromic Yttrium Hydride Films Containing Oxygen. <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 255, 1800139	1.3	2

36	ALD Applied to Conformal Rare-Earth Coating of ZnO Nanoparticles for Low Temperature Thermal Imaging Applications. <i>ECS Transactions</i> , <b>2014</b> , 64, 23-31	1	2
35	Response to Comment on Unusual Photoluminescence of CaHfO <sub>3</sub> and SrHfO <sub>3</sub> Nanoparticles <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1114-1115	15.6	2
34	Carrier dynamics in linearly and step graded bandgap Zn <sub>1-x</sub> CdxO structures. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 191916	3.4	2
33	Investigation of Structural Stability in 4H-SiC Structures with Heavy Ion Implanted Interface. <i>Materials Science Forum</i> , <b>2006</b> , 527-529, 395-398	0.4	2
32	Direct observation of excess carrier distribution in 4H-SiC power diodes. <i>IEEE Electron Device Letters</i> , <b>1999</b> , 20, 295-297	4.4	2
31	Effective lifetime measurements in silicon-on-sapphire material by time-resolved reflectometry. <i>Thin Solid Films</i> , <b>1990</b> , 191, 37-45	2.2	2
30	Characterization of Al-implanted 4H SiC High Voltage Diodes. <i>Physica Scripta</i> , <b>2002</b> , T101, 207	2.6	2
29	Boron-doping of cubic SiC for intermediate band solar cells: a scanning transmission electron microscopy study. <i>SciPost Physics</i> , <b>2018</b> , 5,	6.1	2
28	The Band Gap of BaPrO <sub>3</sub> Studied by Optical and Electrical Methods. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 492-498	3.8	2
27	Monitoring selective etching of self-assembled nanostructured a-Si:Al films. <i>Nanotechnology</i> , <b>2019</b> , 30, 135601	3.4	2
26	Enhancing the UV Emission in ZnO-CNT Hybrid Nanostructures via the Surface Plasmon Resonance of Ag Nanoparticles. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
25	(Invited) Controlling the Carbon Vacancy in 4H-SiC by Thermal Processing. <i>ECS Transactions</i> , <b>2018</b> , 86, 91-97	1	2
24	Water Vapor Photoelectrolysis in a Solid-State Photoelectrochemical Cell with TiO Nanotubes Loaded with CdS and CdSe Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 46875-46885	9.5	2
23	Characterization of B-Implanted 3C-SiC for Intermediate Band Solar Cells. <i>Materials Science Forum</i> , <b>2017</b> , 897, 299-302	0.4	1
22	Effects of annealing on photoluminescence and defect interplay in ZnO bombarded by heavy ions: Crucial role of the ion dose. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 025701	2.5	1
21	Study of Photoluminescence Properties of CuxO Thin Films Prepared by Reactive Radio Frequency Magnetron Sputtering. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1792, 1		1
20	Time-resolved spectroscopy of carrier dynamics in graded ZnCdx O multilayer structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 1805-1808		1
19	Optical and electrical properties of reactively sputtered Ag <sub>2</sub> Cu <sub>2</sub> O <sub>3</sub> films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 1590-1592		1



18	MgZnO synthesis employing weak oxidants for accurate Mg incorporation control. <i>Journal of Crystal Growth</i> , <b>2011</b> , 333, 66-69	1.6	1
17	SEM Visibility of Stacking Faults in 4H-Silicon Carbide Epitaxial and Implanted Layers. <i>Materials Science Forum</i> , <b>2003</b> , 433-436, 937-940	0.4	1
16	Investigation of Excess Carrier Distributions in 4H-SiC Power Diodes under Static Conditions and Turn-On. <i>Materials Science Forum</i> , <b>1998</b> , 264-268, 1053-1056	0.4	1
15	Lateral and cross-well transport of highly and moderately excited carriers in Si <sub>1-x</sub> Gex/Si superlattices. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 4756-4759	2.5	1
14	Observation of near-surface electrically active defects in n-type 6H-SiC. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 3649-3651	2.5	1
13	Reflectivity and Dynamic Gratings in Implanted Si Induced by Picosecond Laser Pulses. <i>Physica Status Solidi (B): Basic Research</i> , <b>1988</b> , 150, 743-748	1.3	1
12	Al incorporation during metal organic chemical vapour deposition of aluminium zinc oxide. <i>Thin Solid Films</i> , <b>2020</b> , 709, 138245	2.2	1
11	Acceptor complex signatures in oxygen-rich ZnO thin films implanted with chlorine ions. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 125701	2.5	1
10	Time evolution of ZnO-CNT photoluminescence under variable ambient and temperature conditions. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 613, 012031	0.4	1
9	Optical and Microstructural Investigation of Heavy B-Doping Effects in Sublimation-Grown 3C-SiC. <i>Materials Science Forum</i> , <b>2018</b> , 924, 221-224	0.4	1
8	Temperature Dependence of the Absorption Coefficient in 4H- and 6H-Silicon Carbide at 355 nm Laser Pumping Wavelength <b>2002</b> , 191, 613		1
7	One Step Synthesis of Pure Cubic and Monoclinic HfO <sub>2</sub> Nanoparticles: Effects of Temperature and Ambient on the Photoluminescent Properties. <i>ECS Transactions</i> , <b>2015</b> , 64, 19-28	1	0
6	Selective etching of nanostructured a-Si:Al and its effect on porosity, Al gradient and surface oxidation. <i>Thin Solid Films</i> , <b>2020</b> , 702, 137982	2.2	0
5	ZnSnN <sub>2</sub> in Real Space and k-Space: Lattice Constants, Dislocation Density, and Optical Band Gap. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100015	8.1	0
4	A comparative study of 1.5 $\mu$ m photoluminescence from (Er, Si) and (Er, Ge) co-sputtered with Al <sub>2</sub> O <sub>3</sub> on Si. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 590, 5-8	5.7	
3	Investigations on new carbon-based nanohybrids combining carbon nanotubes, HfO <sub>2</sub> and ZnO nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 175, 012064	0.4	
2	Phase stability and strain accumulation in CdO as a function of Cd/O supply during MOVPE synthesis. <i>Superlattices and Microstructures</i> , <b>2018</b> , 120, 569-577	2.8	
1	Retinal injuries in seven teenage boys from the same handheld laser. <i>American Journal of Ophthalmology Case Reports</i> , <b>2022</b> , 27, 101596	1.3	

