

Juergen Gutowski

List of Publications by Year in descending order

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83
papers

547
citations

623734

14
h-index

713466

21
g-index

84
all docs

84
docs citations

84
times ranked

785
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of the near-band-edge photoluminescence of ZnO nanowires: Important role of hydrogen incorporation versus plasmon resonances. <i>Applied Physics Letters</i> , 2011, 98, 131111.	3.3	43
2	Localized versus delocalized states: Photoluminescence from electrochemically synthesized ZnO nanowires. <i>Journal of Applied Physics</i> , 2009, 106, 054304.	2.5	33
3	Green monolithic II-VI vertical-cavity surface-emitting laser operating at room temperature. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 731-738.	1.5	32
4	Nonlinear optics with ZnO nanowires. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 311-314.	1.5	31
5	Micro-photoluminescence studies of InGaN/GaN quantum dots up to 150 K. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 1661-1664.	1.5	27
6	Observation of a hybrid state of Tamm plasmons and microcavity exciton polaritons. <i>Scientific Reports</i> , 2016, 6, 34392.	3.3	27
7	Ultrafast exciton dynamics in ZnO: Excitonic versus electron-hole plasma lasing. <i>Journal of Applied Physics</i> , 2011, 109, 043504-043504-5.	2.5	26
8	Enhanced spontaneous emission of CdSe quantum dots in monolithic II-VI pillar microcavities. <i>Applied Physics Letters</i> , 2006, 89, 091107.	3.3	22
9	Resonant modes in monolithic nitride pillar microcavities. <i>European Physical Journal B</i> , 2005, 48, 291-294.	1.5	20
10	Fine tuning of quantum-dot pillar microcavities by focused ion beam milling. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	19
11	ZnSe-based laser diodes: New approaches. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 1098-1105.	0.8	17
12	Effects of FeCl ₃ as oxidizing agent on the conduction mechanisms in polypyrrole (PPy)/p-ZnO hybrid heterojunctions grown by oxidative chemical vapor deposition. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1537-1544.	2.1	17
13	Electron Tunneling from Colloidal CdSe Quantum Dots to ZnO Nanowires Studied by Time-Resolved Luminescence and Photoconductivity Experiments. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15627-15635.	3.1	16
14	Understanding the open circuit voltage in organic solar cells on the basis of a donor-acceptor abrupt (p-n++) heterojunction. <i>Solar Energy</i> , 2019, 184, 610-619.	6.1	16
15	A novel approach for the growth of InGaN quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 3955-3958.	0.8	14
16	Controlled Laser-Thinning of MoS ₂ Nanolayers and Transformation to Amorphous MoO ₃ for 2D Monolayer Fabrication. <i>ACS Applied Nano Materials</i> , 2020, 3, 7490-7498.	5.0	14
17	Light-polarization and intensity dependence of higher-order nonlinearities in excitonic FWM signals. <i>European Physical Journal B</i> , 2004, 42, 175-180.	1.5	13
18	Cleaning and growth morphology of GaN and InGaN surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1800-1809.	1.5	13

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19	Optical properties of InGaN quantum dots in monolithic pillar microcavities. Applied Physics Letters, 2010, 96, 251906.	3.3	9
20	Studies on Carbon as Alternative P-Type Dopant for Gallium Nitride. MRS Internet Journal of Nitride Semiconductor Research, 1999, 4, 526-531.	1.0	8
21	Integration of InGaN quantum dots into nitride-based microcavities. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2320-2322.	0.8	8
22	Optical properties of single InGaN quantum dots and their devices. Physica Status Solidi (B): Basic Research, 2011, 248, 1777-1786.	1.5	8
23	Growth and characterization of self-assembled CdSe quantum dots in MgS barriers. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 767-770.	0.8	7
24	Blue monolithic II-VI-based vertical-cavity surface-emitting laser. Applied Physics Letters, 2012, 100, 121102.	3.3	6
25	Optical properties of single and multi-layer InGaN quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 1883-1885.	0.8	5
26	Optical properties of GaN nanorods grown catalyst-free on r-plane sapphire. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S578.	0.8	5
27	Optical properties and modal gain of InGaN quantum dot stacks. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S590-S593.	0.8	5
28	Analytical energy-barrier-dependent $\langle i \rangle V_{oc} \langle /i \rangle$ model for amorphous silicon solar cells. Applied Physics Letters, 2016, 109, .	3.3	5
29	Organoboron donor-acceptor chromophores for small-molecule organic solar cells. Journal of Materials Science: Materials in Electronics, 2018, 29, 16410-16415.	2.2	5
30	Optical Properties and Carrier Dynamics in Inorganic and Hybrid Inorganic/Organic ZnO- and GaN-Based Nanowire Structures. Physica Status Solidi (B): Basic Research, 2019, 256, 1800463.	1.5	5
31	Optical properties of single InGaN quantum dots up to 150 K. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3864-3868.	0.8	4
32	Two-step growth of InGaN quantum dots and application to light emitters. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 2407-2410.	0.8	4
33	Catalyst free self-organized grown high-quality GaN nanorods. Physica Status Solidi (B): Basic Research, 2011, 248, 1787-1799.	1.5	4
34	Structural and optical characterization of hybrid ZnO/polymer core-shell nanowires fabricated by oxidative chemical vapour deposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 614-617.	0.8	4
35	Impurity-related dynamical optical switching in CdS. Physica Status Solidi (B): Basic Research, 1995, 188, 843-861.	1.5	3
36	Efficient coupling into confined optical modes of ZnSe-based pillar microcavities. Physica Status Solidi (B): Basic Research, 2006, 243, 844-848.	1.5	3

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37	On the way to InGaN quantum dots embedded into monolithic nitride cavities. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 1806-1809.	1.5	3
38	Influence of piezoelectric fields on excitonic complexes in InGaN quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 872-875.	0.8	3
39	Influence of doping on optical properties of catalyst- and mask-free grown gallium nitride nanorods. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 2240-2242.	0.8	3
40	The impact of the discreteness of low-fluence ion beam processing on the spatial architecture of GaN nanostructures fabricated by surface charge lithography. <i>Surface Engineering and Applied Electrochemistry</i> , 2013, 49, 1-3.	0.8	3
41	The impact of nanoporation on persistent photoconductivity and optical quenching effects in suspended GaN nanomembranes. <i>Applied Physics Letters</i> , 2013, 103, 243113.	3.3	3
42	Luminescence dynamics of hybrid ZnO nanowire/CdSe quantum dot structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016, 13, 606-609.	0.8	3
43	Tunable Bragg polaritons and nonlinear emission from a hybrid metal-unfolded ZnSe-based microcavity. <i>Scientific Reports</i> , 2017, 7, 767.	3.3	3
44	Nonlinear Dynamics of Optical Switching Fronts in CdS. <i>Physica Status Solidi (B): Basic Research</i> , 1995, 187, 631-648.	1.5	2
45	Studies on Carbon as Alternative P-Type Dopant for Gallium Nitride. <i>Materials Research Society Symposia Proceedings</i> , 1998, 537, 1.	0.1	2
46	CdSe/ZnSe quantum dots coupled to modes of monolithic II-VI pillar microcavities: tunability and Purcell effect. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 3680-3684.	0.8	2
47	Crack free monolithic nitride vertical-cavity surface-emitting laser structures and pillar microcavities. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1749-1753.	1.8	2
48	Emission properties of ZnSe-based pillar microcavities at elevated temperatures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 508-511.	0.8	2
49	Microphotoluminescence studies on GaN-based airpost pillar microcavities containing InGaN quantum wells and quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1756-1764.	1.5	2
50	A simple electrical-circuit analogous phenomenological COVID-19 model valid for all observed pandemic phases. <i>AIP Advances</i> , 2022, 12, .	1.3	2
51	Relationship between the V_{OC} Tuning Effect and the Interface Activation Energy Due to the Third Component Concentration in Ternary Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2022, 5, 4288-4295.	5.1	2
52	Investigation of Green Emitting Monolithic II-VI Vertical Cavity Surface Emitting Laser. <i>Materials Research Society Symposia Proceedings</i> , 2002, 722, 471.	0.1	1
53	Microphotoluminescence of strongly localized states in InGaN/GaN layers - emission of quantum dots?. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 2744-2747.	0.8	1
54	Epitaxial growth of InGaN quantum dots grown by MOVPE: Effect of capping process on the structural and optical properties. <i>Materials Research Society Symposia Proceedings</i> , 2005, 892, 178.	0.1	1

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55	Coherent control of polariton modes in pulse-transmission and four-wave-mixing experiments. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 1135-1138.	0.8	1
56	Coherent control of excitonic excitations in $\text{In}\delta\text{-}\text{VI}$ quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 813-818.	1.5	1
57	Coherent control of exciton-biexciton beats: direction selectivity of four-wave-mixing signals in experiment and microscopic theory. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2410-2413.	1.5	1
58	Surface excitonic recombination dynamics in ZnO nanowires. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 560-563.	0.8	1
59	Electroluminescence from isolated single indium gallium nitride quantum dots up to 150 K. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 1428-1430.	1.8	1
60	Optical properties of wide-bandgap monolithic pillar microcavities with different geometries. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1246-1249.	0.8	1
61	Blue lasing and strong coupling in ZnSe monolithic microcavities. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1230-1233.	0.8	1
62	Tamm plasmon polaritons in the visible spectral region and its optical properties in ZnSe-based microcavities. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016, 13, 498-502.	0.8	1
63	Comparison of two synthesis processes via low-cost chemical bath techniques for CuO films on ITO. , 2019, , .		1
64	Micro-photoluminescence studies of excitonic and multiexcitonic states of quantum dot-like localization centers in InGaN/GaN structures. <i>Materials Research Society Symposia Proceedings</i> , 2004, 831, 534.	0.1	0
65	Dephasing of excitonic and biexcitonic polarization in a ZnSe single-quantum well. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 843-846.	0.8	0
66	Temperature Dependence of the Dephasing of Excitonic and Biexcitonic Polarization in a ZnSe Single Quantum Well. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
67	Coherent control of the exciton-biexciton system demonstrated in four-wave-mixing experiments. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
68	Polariton Propagation in Shallow-Confinement Heterostructures. , 0, , .		0
69	Coherently controlled polaritonic four-wave-mixing polarization in a ZnSe/ZnSSe heterostructure. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2449-2452.	0.8	0
70	Optical Characterisation of Low-Temperature Grown ZnO Nanorods. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
71	Photoluminescence dynamics of surface-related emission in VPE grown ZnO nanowires. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
72	Methods to spectrally tune $\text{In}\delta\text{-}\text{VI}$ -based monolithic microcavities. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1539-1542.	1.5	0

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73	Optical Properties of InGaN Quantum Dots in Monolithic Pillar Microcavities. , 2011, , .		0
74	Properties of monolithic InGaN quantum dot pillar microcavities. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1573-1575.	1.8	0
75	Fabrication of ZnSeâ€based microcavities for lasing in the strong coupling regime and polariton confinement. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1267-1272.	0.8	0
76	The influence of the quantumâ€confined Stark effect on InGaN/AlGaIn quantum dots (Phys. Status Solidi) Tj ETQq0,0,0 rgBT /Overlock 1	1.5	0
77	The influence of the quantumâ€confined Stark effect on InGaN/AlGaIn quantum dots. Physica Status Solidi (B): Basic Research, 2017, 254, 1600325.	1.5	0
78	Electrical characteristics of ternary solar cells based on PTB7:PCBM:ICBA. , 2019, , .		0
79	Excitons Bound to Defect States in Two-Dimensional (2D) MoS2. IEEE Nanotechnology Magazine, 2021, 20, 400-403.	2.0	0
80	Freeâ€Standing ZnSeâ€Based Microdisk Resonators: Influence of Edge Roughness on the Optical Quality and Reducing Degradation with Supported Geometry. Physica Status Solidi (B): Basic Research, 0, , 2100249.	1.5	0
81	Microphotoluminescence Studies on Single GaN Nanocolumns. Materials Research Society Symposia Proceedings, 2005, 892, 730.	0.1	0
82	Numerical simulation of a bilayer organic solar cell based on boron chromophore compounds as acceptors. , 2020, , .		0
83	Detection of Hydrogen Dissolved in Liquid Media: A Review and Outlook. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, .	1.8	0