Yuh-Renn Wu

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ext. citations

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h-index

3-index

5.26
L-index

#	Paper	IF	Citations
157	The 2020 UV emitter roadmap. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 503001	3	123
156	The influence of random indium alloy fluctuations in indium gallium nitride quantum wells on the device behavior. <i>Journal of Applied Physics</i> , 2014 , 116, 113104	2.5	106
155	Analyzing the physical properties of InGaN multiple quantum well light emitting diodes from nano scale structure. <i>Applied Physics Letters</i> , 2012 , 101, 083505	3.4	92
154	Study on the Current Spreading Effect and Light Extraction Enhancement of Vertical GaN/InGaN LEDs. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 400-407	2.9	90
153	Electronic and optical properties of InGaN quantum dot based light emitters for solid state lighting. Journal of Applied Physics, 2009 , 105, 013117	2.5	90
152	Impact of Gate Metal on the Performance of p-GaN/AlGaN/GaN High Electron Mobility Transistors. <i>IEEE Electron Device Letters</i> , 2015 , 36, 232-234	4.4	84
151	Size-Dependent Strain Relaxation and Optical Characteristics of InGaN/GaN Nanorod LEDs. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009 , 15, 1226-1233	3.8	71
150	Real-time observation of ripple structure formation on a diamond surface under focused ion-beam bombardment. <i>Physical Review B</i> , 2001 , 63,	3.3	69
149	High-electron-mobility GaN grown on free-standing GaN templates by ammonia-based molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2014 , 115, 193702	2.5	68
148	Localization landscape theory of disorder in semiconductors. III. Application to carrier transport and recombination in light emitting diodes. <i>Physical Review B</i> , 2017 , 95,	3.3	68
147	Strain-enhanced photoluminescence from Ge direct transition. <i>Applied Physics Letters</i> , 2010 , 96, 21110	8 3.4	66
146	Two dimensional electron gases in polycrystalline MgZnO/ZnO heterostructures grown by rf-sputtering process. <i>Journal of Applied Physics</i> , 2010 , 108, 054503	2.5	64
145	. IEEE Transactions on Electron Devices, 2005 , 52, 284-293	2.9	63
144	Carrier escape mechanism dependence on barrier thickness and temperature in InGaN quantum well solar cells. <i>Applied Physics Letters</i> , 2012 , 101, 181105	3.4	60
143	Localization landscape theory of disorder in semiconductors. II. Urbach tails of disordered quantum well layers. <i>Physical Review B</i> , 2017 , 95,	3.3	55
142	Performance and polarization effects in (112½) long wavelength light emitting diodes grown on stress relaxed InGaN buffer layers. <i>Applied Physics Letters</i> , 2012 , 101, 121106	3.4	51
141	Localization landscape theory of disorder in semiconductors. I. Theory and modeling. <i>Physical Review B</i> , 2017 , 95,	3.3	50

(2011-2010)

140	Mobility Enhancement of Polycrystalline MgZnO/ZnO Thin Film Layers With Modulation Doping and Polarization Effects. <i>IEEE Transactions on Electron Devices</i> , 2010 , 57, 696-703	2.9	49	
139	Influence of polarity on carrier transport in semipolar (2021 [®]) and (202 [®] 1) multiple-quantum-well light-emitting diodes. <i>Applied Physics Letters</i> , 2012 , 100, 231110	3.4	48	
138	Unipolar vertical transport in GaN/AlGaN/GaN heterostructures. <i>Applied Physics Letters</i> , 2013 , 103, 022	21924	44	
137	Metal piezoelectric semiconductor field effect transistors for piezoelectric strain sensors. <i>Applied Physics Letters</i> , 2004 , 85, 1223-1225	3.4	44	
136	Gate leakage suppression and contact engineering in nitride heterostructures. <i>Journal of Applied Physics</i> , 2003 , 94, 5826-5831	2.5	42	
135	Characteristics of large-scale nanohole arrays for thin-silicon photovoltaics. <i>Progress in Photovoltaics: Research and Applications</i> , 2014 , 22, 452-461	6.8	41	
134	Device scaling physics and channel velocities in AIGaN/GaN HFETs: velocities and effective gate length. <i>IEEE Transactions on Electron Devices</i> , 2006 , 53, 588-593	2.9	40	
133	Study of polarization properties of light emitted from a-plane InGaN/GaN quantum well-based light emitting diodes. <i>Journal of Applied Physics</i> , 2009 , 106, 023106	2.5	35	
132	Electron transport in unipolar InGaN/GaN multiple quantum well structures grown by NH3 molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2015 , 117, 185703	2.5	34	
131	Transient study of self-heating effects in AlGaN/GaN HFETs: Consequence of carrier velocities, temperature, and device performance. <i>Journal of Applied Physics</i> , 2007 , 101, 113712	2.5	33	
130	Thin 3D multiplication regions in plasmonically enhanced nanopillar avalanche detectors. <i>Nano Letters</i> , 2012 , 12, 6448-52	11.5	31	
129	Light emission polarization properties of semipolar InGaN/GaN quantum well. <i>Journal of Applied Physics</i> , 2010 , 107, 053112	2.5	31	
128	Valence band states and polarized optical emission from nonpolar and semipolar IIIBitride quantum well optoelectronic devices. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 100206	1.4	30	
127	Transferring the bendable substrateless GaN LED grown on a thin C-rich SiC buffer layer to flexible dielectric and metallic plates. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 607-617	7.1	25	
126	3D numerical modeling of the carrier transport and radiative efficiency for InGaN/GaN light emitting diodes with V-shaped pits. <i>AIP Advances</i> , 2016 , 6, 055208	1.5	25	
125	Three dimensional numerical study on the efficiency of a core-shell InGaN/GaN multiple quantum well nanowire light-emitting diodes. <i>Journal of Applied Physics</i> , 2013 , 113, 183104	2.5	24	
124	Semipolar (202 1) Single-Quantum-Well Red Light-Emitting Diodes with a Low Forward Voltage. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JC08	1.4	24	
123	Electrical properties of modulation-doped rf-sputtered polycrystalline MgZnO/ZnO heterostructures. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 455101	3	24	

122	Sources of transconductance collapse in III-V nitrides - consequences of velocity-field relations and source/gate design. <i>IEEE Transactions on Electron Devices</i> , 2005 , 52, 1048-1054	2.9	24
121	Surface-plasmon-coupled emission enhancement of a quantum well with a metal nanoparticle embedded in a light-emitting diode. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 2599	1.7	21
120	Velocity overshoot effects and scaling issues in III-V nitrides. <i>IEEE Transactions on Electron Devices</i> , 2005 , 52, 311-316	2.9	21
119	Three dimensional simulation on the transport and quantum efficiency of UVC-LEDs with random alloy fluctuations. <i>Applied Physics Letters</i> , 2018 , 113, 153504	3.4	21
118	Study of optical anisotropy in nonpolar and semipolar AlGaN quantum well deep ultraviolet light emission diode. <i>Journal of Applied Physics</i> , 2012 , 112, 033104	2.5	20
117	Examination of LiNbO3/nitride heterostructures. <i>Solid-State Electronics</i> , 2003 , 47, 2155-2159	1.7	20
116	Percolation transport study in nitride based LED by considering the random alloy fluctuation. <i>Journal of Computational Electronics</i> , 2015 , 14, 416-424	1.8	19
115	Study on the Optimization for Current Spreading Effect of Lateral GaN/InGaN LEDs. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 511-517	2.9	19
114	Short channel effects on gallium nitride/gallium oxide nanowire transistors. <i>Applied Physics Letters</i> , 2012 , 101, 183501	3.4	19
113	Optical Properties of the Partially Strain Relaxed InGaN/GaN Light-Emitting Diodes Induced by p-Type GaN Surface Texturing. <i>IEEE Electron Device Letters</i> , 2011 , 32, 182-184	4.4	18
112	High optical power and low-efficiency droop blue light-emitting diodes using compositionally step-graded InGaN barrier. <i>Electronics Letters</i> , 2015 , 51, 1187-1189	1.1	17
111	Enhancement of efficiency of InGaN-based light emitting diodes through strain and piezoelectric field management. <i>Journal of Applied Physics</i> , 2013 , 114, 073104	2.5	17
110	Strain relaxation induced microphotoluminescence characteristics of a single InGaN-based nanopillar fabricated by focused ion beam milling. <i>Applied Physics Letters</i> , 2008 , 93, 081110	3.4	17
109	A study of the role of dislocation density, indium composition on the radiative efficiency in InGaN/GaN polar and nonpolar light-emitting diodes using drift-diffusion coupled with a Monte Carlo method. <i>Journal of Applied Physics</i> , 2010 , 108, 124508	2.5	16
108	Interwell carrier transport in InGaN/(In)GaN multiple quantum wells. <i>Applied Physics Letters</i> , 2019 , 114, 151103	3.4	15
107	Evidence of nanoscale Anderson localization induced by intrinsic compositional disorder in InGaN/GaN quantum wells by scanning tunneling luminescence spectroscopy. <i>Physical Review B</i> , 2018 , 98,	3.3	15
106	Studying the short channel effect in the scaling of the AlGaN/GaN nanowire transistors. <i>Journal of Applied Physics</i> , 2013 , 113, 214501	2.5	14
105	Gas-assisted focused-ion-beam lithography of a diamond (100) surface. <i>Applied Physics Letters</i> , 1999 , 75, 2677-2679	3.4	14

104	Giant gauge factor of Van der Waals material based strain sensors. <i>Nature Communications</i> , 2021 , 12, 2018	17.4	14
103	Atomic-scale nanofacet structure in semipolar \$(20bar{2}bar{1})\$ and \$(20bar{2}1)\$ InGaN single quantum wells. <i>Applied Physics Express</i> , 2014 , 7, 025503	2.4	13
102	Effect of image charges in the drain delay of AlGaNGaN high electron mobility transistors. <i>Applied Physics Letters</i> , 2008 , 92, 093502	3.4	13
101	Suppression of Current Collapse in Enhancement Mode GaN-Based HEMTs Using an AlGaN/GaN/AlGaN Double Heterostructure. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 1505-1510	2.9	11
100	Three dimensional characterization of GaN-based light emitting diode grown on patterned sapphire substrate by confocal Raman and photoluminescence spectromicroscopy. <i>Scientific Reports</i> , 2017 , 7, 45519	4.9	11
99	On the Efficiency Decrease of the GaN Light-Emitting Nanorod Arrays. <i>IEEE Journal of Quantum Electronics</i> , 2013 , 49, 224-231	2	11
98	Investigation of the strain induced optical transition energy shift of the GaN nanorod light emitting diode arrays. <i>Optics Express</i> , 2011 , 19 Suppl 4, A900-7	3.3	11
97	Analysis of the PEDOT:PSS/Si nanowire hybrid solar cell with a tail state model. <i>Journal of Applied Physics</i> , 2016 , 120, 215501	2.5	11
96	Method for enhancing the favored transverse-electric-polarized emission of an AlGaN deep-ultraviolet quantum well. <i>Optics Express</i> , 2017 , 25, 26365-26377	3.3	10
95	A review of non linear piezoelectricity in semiconductors 2014 ,		10
94	Optical polarization anisotropy of tensile strained InGaN/AlInN quantum wells for TM mode lasers.		10
	Journal of Applied Physics, 2010 , 108, 083108	2.5	10
93		2.5 4.9	10
	Journal of Applied Physics, 2010, 108, 083108 Hybrid classical-quantum linear solver using Noisy Intermediate-Scale Quantum machines. Scientific		
93	Journal of Applied Physics, 2010, 108, 083108 Hybrid classical-quantum linear solver using Noisy Intermediate-Scale Quantum machines. Scientific Reports, 2019, 9, 16251 Electronic properties of MoS2 nanoribbon with strain using tight-binding method. Physica Status	4.9	10
93	Hybrid classical-quantum linear solver using Noisy Intermediate-Scale Quantum machines. Scientific Reports, 2019, 9, 16251 Electronic properties of MoS2 nanoribbon with strain using tight-binding method. Physica Status Solidi (B): Basic Research, 2017, 254, 1600565 A design of intermediate band solar cell for photon ratchet with multi-layer MoS2 nanoribbons.	4.9	10
93 92 91	Hybrid classical-quantum linear solver using Noisy Intermediate-Scale Quantum machines. Scientific Reports, 2019, 9, 16251 Electronic properties of MoS2 nanoribbon with strain using tight-binding method. Physica Status Solidi (B): Basic Research, 2017, 254, 1600565 A design of intermediate band solar cell for photon ratchet with multi-layer MoS2 nanoribbons. Applied Physics Letters, 2017, 110, 201109 Networking hole and electron hopping paths by Y-shaped host molecules: promoting blue	4.9 1.3	10 9 9
93 92 91 90	Hybrid classical-quantum linear solver using Noisy Intermediate-Scale Quantum machines. Scientific Reports, 2019, 9, 16251 Electronic properties of MoS2 nanoribbon with strain using tight-binding method. Physica Status Solidi (B): Basic Research, 2017, 254, 1600565 A design of intermediate band solar cell for photon ratchet with multi-layer MoS2 nanoribbons. Applied Physics Letters, 2017, 110, 201109 Networking hole and electron hopping paths by Y-shaped host molecules: promoting blue phosphorescent organic light emitting diodes. Journal of Materials Chemistry C, 2017, 5, 3600-3608 Application of localization landscape theory and the k Ip model for direct modeling of carrier transport in a type II superlattice InAs/InAsSb photoconductor system. Journal of Applied Physics,	4.9 1.3 3.4 7.1	10999

86	Overcoming the excessive compressive strain in AlGaN epitaxy by introducing high Si-doping in AlN templates. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 070904	1.4	8
85	Modeling and optimization of p-AlGaN super lattice structure as the p-contact and transparent layer in AlGaN UVLEDs. <i>Optics Express</i> , 2015 , 23, 32367-76	3.3	8
84	The optimization study of textured a-Si:H solar cells. <i>Journal of Renewable and Sustainable Energy</i> , 2014 , 6, 023111	2.5	8
83	Projected Efficiency of Polarization-Matched p-In\$_{bm x}\$ Ga\$_{bm {1-x}}\$N/i-In \$_{bm y}\$Ga\$_{bm{1-y}}\$N/n-GaN Double Heterojunction Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2013 , 3, 985-990	3.7	8
82	Transport properties of gallium nitride nanowire metal-oxide-semiconductor transistor. <i>Applied Physics Letters</i> , 2011 , 99, 152108	3.4	8
81	Different surface plasmon coupling behaviors of a surface Al nanoparticle between TE and TM polarizations in a deep-UV light-emitting diode. <i>Optics Express</i> , 2018 , 26, 8340-8355	3.3	7
80	Demonstration of the Very Long Wavelength Infrared Type-II Superlattice InAs/InAsSb GaAs Immersed Photodetector Operating at Thermoelectric Cooling. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1396-1398	4.4	7
79	Polarization ratio enhancement of a-plane GaN light emitting diodes by asymmetric two-dimensional photonic crystals. <i>Journal of Applied Physics</i> , 2014 , 115, 193107	2.5	7
78	Thermoelectric characteristic of the rough InN/GaN core-shell nanowires. <i>Journal of Applied Physics</i> , 2014 , 116, 103707	2.5	7
77	Study of thermoelectric properties of indium nitride nanowire. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1562-1565	1.6	7
76	Study on the effect of size on InGaN red micro-LEDs Scientific Reports, 2022, 12, 1324	4.9	7
75	Barriers to carrier transport in multiple quantum well nitride-based c-plane green light emitting diodes. <i>Physical Review Materials</i> , 2020 , 4,	3.2	7
74	AlGaN-based deep ultraviolet light emitting diodes with magnesium delta-doped AlGaN last barrier. <i>Applied Physics Letters</i> , 2020 , 117, 251101	3.4	7
73	Optimization of thermoelectric properties for rough nano-ridge GaAs/AlAs superlattice structure. <i>AIP Advances</i> , 2016 , 6, 115201	1.5	7
72	Analysis and Optimization of GaN Based Multi-Channels FinFETs. <i>IEEE Nanotechnology Magazine</i> , 2020 , 19, 439-445	2.6	6
71	GaN-Based Dual-Color LEDs With p-Type Insertion Layer for Controlling the Ratio of Two-Color Intensities. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 2821-2826	2.9	6
7º	Enhancing the Hole-Injection Efficiency of a Light-Emitting Diode by Increasing Mg Doping in the p-AlGaN Electron-Blocking Layer. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 3226-3233	2.9	6
69	Efficiency dip observed with InGaN-based multiple quantum well solar cells. <i>Optics Express</i> , 2014 , 22 Suppl 7, A1753-60	3.3	6

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68	Scaling performance of Ga2O3/GaN nanowire field effect transistor. <i>Journal of Applied Physics</i> , 2013 , 114, 163706	2.5	6	
67	Study of Light Emission Enhancement in Nanostructured InGaN/GaN Quantum Wells. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 884-889	2	6	
66	Disorder effects in nitride semiconductors: impact on fundamental and device properties. <i>Nanophotonics</i> , 2020 , 10, 3-21	6.3	6	
65	. IEEE Transactions on Electron Devices, 2021 , 68, 2818-2822	2.9	6	
64	Wearable Devices Made of a Wireless Vertical-Type Light-Emitting Diode Package on a Flexible Polyimide Substrate with a Conductive Layer. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 979-987	4	6	
63	Modeling of carrier transport in organic light emitting diode with random dopant effects by two-dimensional simulation. <i>Optics Express</i> , 2017 , 25, 25492-25503	3.3	5	
62	Study of carrier dynamics and radiative efficiency in InGaN/GaN LEDs with Monte Carlo method. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 2393-2395		5	
61	Enhanced growth of anodic alumina nanochannels on Ga-ion pre-irradiated aluminuma). <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 651		5	
60	Theoretical and experimental investigations of vertical hole transport through unipolar AlGaN structures: Impacts of random alloy disorder. <i>Applied Physics Letters</i> , 2020 , 117, 022107	3.4	5	
59	Electronic properties of strained monolayer MoS2 using tight binding method 2016 ,		4	
58	Optimization of MAPbI\$_3\$-Based Perovskite Solar Cell With Textured Surface. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 1686-1692	3.7	4	
57	Photoelectrochemical hydrogen generation with linear gradient Al composition dodecagon faceted AlGaN/n-GaN electrode. <i>Optics Express</i> , 2014 , 22 Suppl 7, A1853-61	3.3	4	
56	Design of anti-ring back reflectors for thin-film solar cells based on three-dimensional optical and electrical modeling. <i>Applied Physics Letters</i> , 2014 , 105, 061108	3.4	4	
55	Extraction of Transport Dynamics in AlGaN/GaN HFETs Through Free Carrier Absorption. <i>Journal of Electronic Materials</i> , 2008 , 37, 578-584	1.9	4	
54	Efficiency and Forward Voltage of Blue and Green Lateral LEDs with V-shaped Defects and Random Alloy Fluctuation in Quantum Wells. <i>Physical Review Applied</i> , 2022 , 17,	4.3	4	
53	Dependence of carrier escape lifetimes on quantum barrier thickness in InGaN/GaN multiple quantum well photodetectors. <i>Optics Express</i> , 2020 , 28, 23796-23805	3.3	4	
52	Three-Dimensional Modeling of Minority-Carrier Lateral Diffusion Length Including Random Alloy Fluctuations in (In,Ga)N and (Al,Ga)N Single Quantum Wells. <i>Physical Review Applied</i> , 2021 , 16,	4.3	4	
51	Low-temperature carrier transport across InGaN multiple quantum wells: Evidence of ballistic hole transport. <i>Physical Review B</i> , 2020 , 101,	3.3	3	

50	Nonpolar and semipolar LEDs 2018 , 273-295		3
49	Mode-Hopping Phenomena in the InGaN-Based CoreBhell Nanorod Array Collective Lasing. <i>ACS Photonics</i> , 2018 , 5, 2724-2729	6.3	3
48	Influences of indium fluctuation to the carrier transport, auger recombination, and efficiency droop 2013 ,		3
47	Abnormal polarization switching phenomenon in a-plane AlxGa(1-)xN. <i>Optics Express</i> , 2010 , 18, 21743-9	3.3	3
46	Polarization-Dependent Sidewall Light Diffraction of LEDs Surrounded by Nanorod Arrays. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 1683-1685	2.2	3
45	Light Trapping Induced High Short-Circuit Current Density in III-Nitride Nanorods/Si (111) Heterojunction Solar Cells. <i>Nanoscale Research Letters</i> , 2020 , 15, 167	5	3
44	Characterization of semi-polar (20[Formula: see text]1) InGaN microLEDs. <i>Scientific Reports</i> , 2020 , 10, 15966	4.9	3
43	A 3D simulation comparison of carrier transport in green and blue c-plane multi-quantum well nitride light emitting diodes. <i>Journal of Applied Physics</i> , 2020 , 128, 235703	2.5	3
42	Modeling dislocation-related leakage currents in GaN p-n diodes. <i>Journal of Applied Physics</i> , 2019 , 126, 245705	2.5	3
41	Graphene/SnS van der Waals Photodetector with High Photoresponsivity and High Photodetectivity for Broadband 365-2240 nm Detection. <i>ACS Applied Materials & Detection and Society</i> , 13, 47198-47207	9.5	3
40	Systematic investigation of the threshold voltage modulation of AlGaN/GaN Schottky-gate Fin-HEMTs. <i>Journal of Applied Physics</i> , 2019 , 125, 094502	2.5	2
39	Numerical study of current spreading and light extraction in deep UV light-emitting diode 2015,		2
38	Analysis of the triplet exciton transfer mechanism at the heterojunctions of organic light-emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 345501	3	2
37	A Thermoelectrically Cooled nBn Type-II Superlattices InAs/InAsSb/B-AlAsSb Mid-Wave Infrared Detector. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900522	1.6	2
36	Thermal Effects in a Bendable InGaN/GaN Quantum-Well Light-Emitting Diode. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 1442-1445	2.2	2
35	The Effect of Tensile Strain on Optical Anisotropy and Exciton of \$m\$-Plane ZnO. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-8	1.8	2
34	Mechanisms of the Asymmetric Light Output Enhancements in \$a\$ -Plane GaN Light-Emitting Diodes With Photonic Crystals. <i>IEEE Journal of Quantum Electronics</i> , 2014 , 50, 1-6	2	2
33	The operation principle of the well in quantum dot stack infrared photodetector. <i>Journal of Applied Physics</i> , 2013 , 114, 244504	2.5	2

32	Numerical Study of Scaling Issues in Graphene Nanoribbon Transistors. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1344, 1		2
31	100GHz depletion-mode Ga2O3/GaN single nanowire MOSFET by photo-enhanced chemical oxidation method 2010 ,		2
30	Fabrication and modeling of large-scale silicon nanowire solar cells for thin-film photovoltaics 2012,		2
29	Bistriazoles with a Biphenyl Core Derivative as an Electron-Favorable Bipolar Host of Efficient Blue Phosphorescent Organic Light-Emitting Diodes. <i>ACS Applied Materials & Diodes amp; Interfaces</i> , 2020 , 12, 49895	;- 2 ; 5 90)4 ²
28	Design of nano-pattern reflectors for thin-film solar cells based on three-dimensional optical and electrical modeling 2015 ,		1
27	The optimization of textured a-Si:H solar cells with a fully three-dimensional simulation 2014,		1
26	Influence of nanoscale indium fluctuation in the InGaN quantum-well LED to the efficiency droop with a fully 3D simulation model 2014 ,		1
25	Transition rate in the InGaN quantum dot intermediate-band solar cell 2012 ,		1
24	Current spreading effect in vertical GaN/InGaN LEDs 2011 ,		1
23	Role of interface roughness on lateral transport in InGaN/GaN LEDs: diffusion length, dislocation spacing, and radiative efficiency 2010 ,		1
22	Lateral and Vertical Charge Transport in Polar Nitride Heterostructures 2008, 111-159		1
21	Gate Leakage Suppression and Contact Engineering in Nitride Heterostructures. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 798, 249		1
20	Revealing the mechanism of carrier transport in host-guest systems of organic materials with a modified Poisson and drift-diffusion solver. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
19	Design of Monolayer MoS2 Nanosheet Transistors for Low-Power Applications. <i>IEEE Transactions on Electron Devices</i> , 2022 , 69, 358-363	2.9	1
18	GaN-Based Dual Color LEDs with P-Type Insertion Layer for Balancing Two-Color Intensities 2013,		1
17	Calculation of Field Dependent Mobility in MoS2 and WS2 with Multi-Valley Monte Carlo Method 2021 ,		1
16	Back-contacted thin-film GaAs solar cells 2016 ,		1
15	Deep Source Metal Trenches in GaN-On-Si HEMTs for Relieving Current Collapse. <i>IEEE Journal of the Electron Devices Society</i> , 2021 , 9, 557-563	2.3	1

14	3D Self-Consistent Quantum Transport Simulation for GaAs Gate-All-Around Nanowire Field-Effect Transistor with Elastic and Inelastic Scattering Effects. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 216, 1800524	1.6	1
13	Investigating the high field transport properties of Janus WSSe and MoSSe by DFT analysis and Monte Carlo simulations. <i>Journal of Applied Physics</i> , 2022 , 131, 144303	2.5	1
12	Influences of dielectric constant and scan rate on hysteresis effect in perovskite solar cell with simulation and experimental analyses <i>Scientific Reports</i> , 2022 , 12, 7927	4.9	1
11	Hole mobility behavior in Al-gradient polarization-induced p-type AlGaN grown on GaN template. <i>Applied Physics Letters</i> , 2022 , 120, 022103	3.4	O
10	Analysis of Light-Emission Polarization Ratio in Deep-Ultraviolet Light-Emitting Diodes by Considering Random Alloy Fluctuations with the 3D klp Method. <i>Physica Status Solidi - Rapid Research Letters</i> ,2100498	2.5	О
9	Theoretical modelling of XBn T2SLs InAs/InAsSb/B-AlAsSb mid-wave detector operating below thermoelectrical cooling. <i>Opto-electronics Review</i> , 2019 , 27, 275-281	2.4	
8	Nonpolar and semipolar LEDs 2014 , 250-275		
7	Influences of polarization effects in the electrical properties of polycrystalline MgZnO/ZnO heterostructure. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1201, 90		
6	Strain Relaxation Induced Micro-Photoluminescence haracteristics of a Single InGaN-based Nanopillar Fabricated by Focused Ion Beam Milling. <i>ECS Transactions</i> , 2009 , 16, 139-143	1	
5	Study of thermoelectric properties of InGaN/GaN superlattice. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1329, 1		
4	Light emission polarization properties of strained (11\$ bar 2 \$2) semipolar InGaN quantum well. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 1859-1862		
3	Studies of 2D Bulk and Nanoribbon Band Structures in MoxW1\(\mathbb{B}\)S2 Alloy System Using Full sp3d5 Tight-Binding Model. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2000375	1.3	
2	Electro-optical numerical modeling for the design of UVA nitrides based vertical cavity surface emitting laser diodes. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 1-1	3.8	
1	Study of the Factors Limiting the Efficiency of Vertical-Type Nitride- and AllnGaP-Based Ouantum-Well Micro-LEDs. <i>Processes.</i> 2022 . 10. 489	2.9	