

Tong Wang

List of Publications by Year in descending order

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67
papers

1,048
citations

394421

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477307

29
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68
all docs

68
docs citations

68
times ranked

1244
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-beam-induced segregation in InGaN/GaN multiple-quantum wells. Applied Physics Letters, 2003, 83, 1965-1967.	3.3	70
2	Characterization of InGaN-based nanorod light emitting diodes with different indium compositions. Journal of Applied Physics, 2012, 111, .	2.5	61
3	Optically pumped ultraviolet lasing from nitride nanopillars at room temperature. Applied Physics Letters, 2010, 96, .	3.3	51
4	Room temperature continuous-wave green lasing from an InGaN microdisk on silicon. Scientific Reports, 2014, 4, 7250.	3.3	48
5	Room temperature plasmonic lasing in a continuous wave operation mode from an InGaN/GaN single nanorod with a low threshold. Scientific Reports, 2015, 4, 5014.	3.3	42
6	Growth and optical investigation of self-assembled InGaN quantum dots on a GaN surface using a high temperature AlN buffer. Journal of Applied Physics, 2008, 103, 123522.	2.5	41
7	Optically pumped whispering-gallery mode lasing from 2- μ m GaN micro-disks pivoted on Si. Applied Physics Letters, 2014, 104, .	3.3	40
8	The origin of the high ideality factor in AlGaIn-based quantum well ultraviolet light emitting diodes. Physica Status Solidi (B): Basic Research, 2010, 247, 1761-1763.	1.5	30
9	Greatly enhanced performance of InGaN/GaN nanorod light emitting diodes. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 477-480.	1.8	29
10	Polarisation-controlled single photon emission at high temperatures from InGaN quantum dots. Nanoscale, 2017, 9, 9421-9427.	5.6	29
11	Origin of the red luminescence in Mg-doped GaN. Applied Physics Letters, 2006, 89, 022107.	3.3	28
12	Optical properties of AlGaIn-GaN multiple quantum well structure by using a high-temperature AlN buffer on sapphire substrate. Journal of Applied Physics, 2006, 99, 023513.	2.5	27
13	Ultrafast, Polarized, Single-Photon Emission from m-Plane InGaN Quantum Dots on GaN Nanowires. Nano Letters, 2016, 16, 7779-7785.	9.1	26
14	Quantum Transport in Two-Dimensional WS ₂ with High-Efficiency Carrier Injection through Indium Alloy Contacts. ACS Nano, 2020, 14, 13700-13708.	14.6	26
15	Optical and microstructural study of a single layer of InGaN quantum dots. Journal of Applied Physics, 2009, 105, 053505.	2.5	25
16	Efficiency enhancement of InGaN/GaN solar cells with nanostructures. Applied Physics Letters, 2014, 104, .	3.3	23
17	Structure-Activity Correlations for Brønsted Acid, Lewis Acid, and Photocatalyzed Reactions of Exfoliated Crystalline Niobium Oxides. ChemCatChem, 2017, 9, 144-154.	3.7	22
18	Influence of annealing temperature on optical properties of InGaN quantum dot based light emitting diodes. Applied Physics Letters, 2008, 93, .	3.3	21

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19	GaN hybrid microcavities in the strong coupling regime grown by metal-organic chemical vapor deposition on sapphire substrates. <i>Journal of Applied Physics</i> , 2007, 101, 093110.	2.5	20
20	Monolithically multi-color lasing from an InGaN microdisk on a Si substrate. <i>Scientific Reports</i> , 2017, 7, 10086.	3.3	20
21	Overgrowth and strain investigation of (11 $\bar{2}$ 0) non-polar GaN on patterned templates on sapphire. <i>Scientific Reports</i> , 2018, 8, 9898.	3.3	20
22	Gate-Defined Quantum Confinement in CVD 2D WS ₂ . <i>Advanced Materials</i> , 2022, 34, e2103907.	21.0	18
23	Mechanisms of dislocation reduction in an Al _{0.98} Ga _{0.02} N layer grown using a porous AlN buffer. <i>Applied Physics Letters</i> , 2006, 89, 131925.	3.3	17
24	Influence of the GaN barrier thickness on the optical properties of InGaN/GaN multilayer quantum dot heterostructures. <i>Applied Physics Letters</i> , 2010, 96, 251904.	3.3	17
25	Two coexisting mechanisms of dislocation reduction in an AlGaIn layer grown using a thin GaN interlayer. <i>Applied Physics Letters</i> , 2007, 91, 131903.	3.3	16
26	Lattice resolved annular dark-field scanning transmission electron microscopy of (Al,In)GaIn/GaN layers for measuring segregation with sub-monolayer precision. <i>Journal of Materials Science</i> , 2013, 48, 2883-2892.	3.7	16
27	Theoretical and experimental analysis of radiative recombination lifetimes in nonpolar InGaN/GaN quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600675.	1.5	16
28	Efficient reduction of defects in (11 $\bar{2}$ 0) non-polar and (11 $\bar{2}$ 2) semi-polar GaN grown on nanorod templates. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	15
29	Investigations on Electrode-Less Wet Etching of GaN Using Continuous Ultraviolet Illumination. <i>Journal of Electronic Materials</i> , 2007, 36, 397-402.	2.2	14
30	Determining GaN Nanowire Polarity and its Influence on Light Emission in the Scanning Electron Microscope. <i>Nano Letters</i> , 2019, 19, 3863-3870.	9.1	14
31	Monolithically integrated white light LEDs on (11 $\bar{2}$ 2) semi-polar GaN templates. <i>Scientific Reports</i> , 2019, 9, 1383.	3.3	14
32	Cathodoluminescence studies of chevron features in semi-polar (11 $\bar{2}$ 2) InGaN/GaN multiple quantum well structures. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	12
33	The role of vacancies in the red luminescence from Mg-doped GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 1919-1922.	0.8	11
34	Influence of crystal quality of underlying GaN buffer on the formation and optical properties of InGaN/GaN quantum dots. <i>Applied Physics Letters</i> , 2009, 95, 101909.	3.3	11
35	Deterministic optical polarisation in nitride quantum dots at thermoelectrically cooled temperatures. <i>Scientific Reports</i> , 2017, 7, 12067.	3.3	11
36	Direct generation of linearly polarized single photons with a deterministic axis in quantum dots. <i>Nanophotonics</i> , 2017, 6, 1175-1183.	6.0	11

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37	Carrier capture times in InGaN/GaN multiple quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 240, 364-367.	1.5	10
38	Polarized white light from hybrid organic/III-nitrides grating structures. <i>Scientific Reports</i> , 2017, 7, 39677.	3.3	10
39	Compositional analysis of AlInGaN quaternary layers grown by metalorganic vapour phase epitaxy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 2478-2481.	0.8	9
40	Characterization of gate recessed GaN/AlGaIn/GaN high electron mobility transistors fabricated using a SiCl ₄ /SF ₆ dry etch recipe. <i>Journal of Applied Physics</i> , 2010, 108, 013711.	2.5	9
41	AlGaIn-based Bragg mirrors and hybrid microcavities for the ultra-violet spectral region. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 813-816.	0.8	8
42	Optical and polarization properties of nonpolar InGaIn-based light-emitting diodes grown on micro-rod templates. <i>Scientific Reports</i> , 2019, 9, 9770.	3.3	8
43	Crack formation and development in AlGaIn/GaN structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 2055-2058.	0.8	7
44	Optical investigation of semi-polar (11-22) Al _x Ga _{1-x} N with high Al composition. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	7
45	Highly polarized electrically driven single-photon emission from a non-polar InGaIn quantum dot. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	7
46	The influence of acceptor anneal temperature on the performance of InGaIn/GaN quantum well light-emitting diodes. <i>Journal of Applied Physics</i> , 2006, 99, 024507.	2.5	6
47	Monolithic multiple colour emission from InGaIn grown on patterned non-polar GaN. <i>Scientific Reports</i> , 2019, 9, 986.	3.3	6
48	Characterisation of ultra-shallow junctions using advanced SIMS, SRP and HRTEM techniques. , 0, , .		5
49	High-temperature performance of non-polar (11-20) InGaIn quantum dots grown by a quasi-two-temperature method. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600724.	1.5	5
50	Temperature-dependent fine structure splitting in InGaIn quantum dots. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	4
51	Ultra-Energy-Efficient Photoelectrode Using Microstriped GaN on Si. <i>ACS Photonics</i> , 2019, 6, 1302-1306.	6.6	4
52	Optical polarization properties of (11-22) semi-polar InGaIn LEDs with a wide spectral range. <i>Scientific Reports</i> , 2020, 10, 7191.	3.3	4
53	Influence of an InGaIn superlattice pre-layer on the performance of semi-polar (11-22) green LEDs grown on silicon. <i>Scientific Reports</i> , 2020, 10, 12650.	3.3	4
54	Effects of depletion on the emission from individual InGaIn dots. <i>Applied Physics Letters</i> , 2006, 88, 122115.	3.3	3

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55	Greatly improved crystal quality of non-polar GaN grown on a-plane GaN nano-rod template obtained using self-organised nano-masks. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 564-567.	0.8	3
56	Investigation of the optical properties of InGaN/GaN nanorods with different indium composition. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 620-623.	0.8	3
57	Study of high-quality ($11\bar{2}2$) semi-polar GaN grown on nanorod templates. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1079-1083.	1.5	3
58	Effect of an ITO current spreading layer on the performance of InGaN MQW solar cells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016, 13, 297-300.	0.8	3
59	Confocal photoluminescence investigation to identify basal stacking fault's role in the optical properties of semi-polar InGaN/GaN lighting emitting diodes. <i>Scientific Reports</i> , 2019, 9, 9735.	3.3	3
60	Improved AlN buffer layer technologies for UV-LEDs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 120-124.	0.8	1
61	Optical gain in AlGaIn/AlGaIn multiple quantum wells grown on high temperature AlN multiple buffers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 2056-2058.	0.8	1
62	Non-polar nitride single-photon sources. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 073001.	2.2	1
63	The magnesium acceptor states in GaN: an investigation by optically-detected magnetic resonance. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 1892-1896.	0.8	0
64	MOCVD growth and optical study of InGaIn quantum dots and their emitters on a high quality GaN layer grown using a high temperature AlN as buffer. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, S582-S585.	0.8	0
65	Semi-polar InGaIn/GaN based long emission wavelength emitter for lighting and displays. , 2016, , .		0
66	Development of III-nitride nanostructures for low threshold lasing and semipolar GaN towards Yellow/Orange lasing. , 2016, , .		0
67	Nitride Single Photon Sources. , 2018, , .		0