

Ikai Lo

List of Publications by Year in descending order

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papers

911
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516710

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57
all docs

57
docs citations

57
times ranked

726
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of positive bias stress on N ₂ O plasma improved InGaZnO thin film transistor. Applied Physics Letters, 2010, 96, .	3.3	158
2	Spin splitting in modulation-doped Al _x Ga _{1-x} N/GaN heterostructures. Physical Review B, 2002, 65, .	3.2	89
3	Bulk Oxygen Ion Storage in Indium-Tin Oxide Electrode for Improved Performance of HfO ₂ -Based Resistive Random Access Memory. IEEE Electron Device Letters, 2016, 37, 280-283.	3.9	50
4	Dresselhaus effect in bulk wurtzite materials. Applied Physics Letters, 2007, 91, .	3.3	47
5	Conduction-Valence Landau Level Mixing Effect. Physical Review Letters, 1996, 77, 2053-2056.	7.8	44
6	Zero-field spin splitting in modulation-doped Al _x Ga _{1-x} N/GaN two-dimensional electron systems. Applied Physics Letters, 2005, 86, 222102.	3.3	35
7	Effect of N to Ga flux ratio on the GaN surface morphologies grown at high temperature by plasma-assisted molecular-beam epitaxy. Journal of Applied Physics, 2004, 95, 460-465.	2.5	34
8	Anomalous k-dependent spin splitting in wurtzite Al _x Ga _{1-x} N/GaN heterostructures. Physical Review B, 2007, 75, .	3.2	34
9	Exchange-enhanced g-factors in an Al _{0.25} Ga _{0.75} N/GaN two-dimensional electron system. Journal of Applied Physics, 2004, 96, 7370-7373.	2.5	32
10	Wurtzite structure effects on spin splitting in GaN/AlN quantum wells. Physical Review B, 2005, 72, .	3.2	32
11	Resistive Switching Mechanism of Oxygen-Rich Indium Tin Oxide Resistance Random Access Memory. IEEE Electron Device Letters, 2016, 37, 408-411.	3.9	31
12	Improving Performance by Doping Gadolinium Into the Indium-Tin Oxide Electrode in HfO ₂ -Based Resistive Random Access Memory. IEEE Electron Device Letters, 2016, 37, 584-587.	3.9	28
13	Gate-controlled spin splitting in GaN/AlN quantum wells. Applied Physics Letters, 2006, 88, 082108.	3.3	22
14	Self-assembled GaN hexagonal micropillar and microdisk. Applied Physics Letters, 2009, 94, .	3.3	22
15	Line defects of M-plane GaN grown on LiAlO ₂ by plasma-assisted molecular beam epitaxy. Applied Physics Letters, 2008, 92, .	3.3	18
16	Optical anisotropy in [hkil]-oriented wurtzite semiconductor quantum wells. Journal of Applied Physics, 2007, 101, 043104.	2.5	17
17	Self-Assembled c-Plane GaN Nanopillars on LiAlO ₂ Substrate Grown by Plasma-Assisted Molecular-Beam Epitaxy. Japanese Journal of Applied Physics, 2008, 47, 891-895.	1.5	16
18	Growth of InN thin films on ZnO substrate by plasma-assisted molecular beam epitaxy. Journal of Physics and Chemistry of Solids, 2010, 71, 1664-1668.	4.0	12

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19	InGaN/GaN single-quantum-well microdisks. Applied Physics Letters, 2012, 100, .	3.3	12
20	Electronic properties of Al _x Ga _{1-x} Sb/InAs quantum wells. Physical Review B, 1994, 50, 5316-5322.	3.2	11
21	Positive and negative persistent photoconductivities in semimetallic Al _x Ga _{1-x} Sb/InAs quantum wells. Journal of Applied Physics, 1999, 86, 3152-3158.	2.5	10
22	Spin-splitting in an Al _x Ga _{1-x} N/GaN nanowire for a quantum-ring interferometer. Applied Physics Letters, 2008, 93, .	3.3	10
23	Spin-degenerate surface and the resonant spin lifetime transistor in wurtzite structures. Journal of Applied Physics, 2010, 108, 083718.	2.5	10
24	Characterization of M-plane GaN film grown on $\hat{1}^2$ -LiGaO ₂ (100) by plasma-assisted molecular beam epitaxy. Thin Solid Films, 2011, 519, 3569-3572.	1.8	10
25	Green light emission by InGaN/GaN multiple-quantum-well microdisks. Applied Physics Letters, 2014, 104, .	3.3	10
26	Growth of wurtzite and zinc-blende phased GaN on silicon (100) substrate with sputtered AlN buffer layer. Journal of Crystal Growth, 2013, 382, 1-6.	1.5	9
27	Obtaining Lower Forming Voltage and Self-Compliance Current by Using a Nitride Gas/Indium-Tin Oxide Insulator in Resistive Random Access Memory. IEEE Transactions on Electron Devices, 2016, 63, 4769-4775.	3.0	9
28	Spin splitting in Al _x Ga _{1-x} N/GaN quasiballistic quantum wires. Journal of Applied Physics, 2009, 105, 093716.	2.5	8
29	Improvement of M-plane GaN thin film grown on pre-annealing $\hat{1}^2$ -LiGaO ₂ (100) substrate. Journal of Crystal Growth, 2012, 340, 61-65.	1.5	8
30	Characterization of M-plane GaN thin films grown on misoriented $\hat{1}^3$ -LiAlO ₂ (100) substrates. Journal of Crystal Growth, 2016, 450, 197-202.	1.5	7
31	Advances in GaN Crystals and Their Applications. Crystals, 2018, 8, 117.	2.2	7
32	Application of block diagonal technique to Hamiltonian matrix in performing spin-splitting calculations for GaAs zincblende bulk and quantum wells. Journal of Applied Physics, 2008, 104, .	2.5	6
33	Direct growth of heteroepitaxial CuInSe ₂ on GaN (0001) by molecular beam epitaxy. Thin Solid Films, 2015, 574, 132-135.	1.8	6
34	Growth of InN hexagonal microdisks. AIP Advances, 2016, 6, 085015.	1.3	6
35	Evolution of Metallic Conductivity in Epitaxial ZnO Thin Films on Systematic Al Doping. Journal of Electronic Materials, 2017, 46, 2030-2039.	2.2	6
36	Growth and Characterization of GaN/In _x Ga _{1-x} N/In _y Al _{1-y} N Quantum Wells by Plasma-Assisted Molecular Beam Epitaxy. Crystals, 2022, 12, 417.	2.2	6

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37	Electrical contact for wurtzite GaN microdisks. Applied Physics Letters, 2014, 105, 082101.	3.3	5
38	Refractive Index Measurement Using the Laser Profiler. Physics Procedia, 2017, 86, 176-180.	1.2	5
39	Effect of bulk inversion asymmetry on optical transitions of zinc blende semiconductor quantum wells. Journal of Applied Physics, 2007, 101, 046105.	2.5	4
40	Indium-Incorporation with In _x Ga _{1-x} N Layers on GaN-Microdisks by Plasma-Assisted Molecular Beam Epitaxy. Crystals, 2019, 9, 308.	2.2	4
41	Self-confined GaN heterophased quantum wells. Applied Physics Letters, 2010, 96, 222105.	3.3	3
42	Finite growth of InGaN/GaN triple-quantum-well microdisks on LiAlO ₂ substrate. AIP Advances, 2018, 8, .	1.3	3
43	Influence of lattice misfit on crack formation during the epitaxy of In Al _{1-x} N on GaN. Journal of Alloys and Compounds, 2022, 890, 161797.	5.5	3
44	Improved characteristics of metamorphic InAlAs/InGaAs high electron mobility transistor with symmetric graded In _x Ga _{1-x} As channel. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 2429.	1.6	2
45	Giant optical anisotropy in R-plane GaN/AlGaIn quantum wells caused by valence band mixing effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1691-1694.	2.1	2
46	The growth of heteroepitaxial CuInSe ₂ on free-standing N-polar GaN. AIP Advances, 2014, 4, .	1.3	2
47	Crystal-Field and Strain Effects on Minimum-Spin-Splitting Surfaces in Bulk Wurtzite Materials. Journal of the Physical Society of Japan, 2010, 79, 093705.	1.6	1
48	Epitaxial growth of M-plane GaN on ZnO micro-rods by plasma-assisted molecular beam epitaxy. AIP Advances, 2015, 5, 127201.	1.3	1
49	Growth and Characterization of M-Plane GaN Thin Films Grown on $\hat{1}^3$ -LiAlO ₂ (100) Substrates. Scanning, 2017, 2017, 1-7.	1.5	1
50	GaN and InN Hexagonal Microdisks. , 2018, , .		1
51	Strain of M-plane GaN epitaxial layer grown on $\hat{1}^2$ -LiGaO ₂ (100) by plasma-assisted molecular beam epitaxy. AIP Advances, 2018, 8, 075116.	1.3	1
52	Anisotropic Strain on GaN Microdisks Grown by Plasma-Assisted Molecular Beam Epitaxy. Crystals, 2020, 10, 899.	2.2	1
53	A Study of Magnetic-Field-Induced Semimetal to Semiconductor Transition in Al _x Ga _{1-x} Sb/InAs Quantum Wells. Materials Research Society Symposia Proceedings, 1993, 326, 317.	0.1	0
54	Spin splitting in bulk wurtzite AlN under biaxial strain. Journal of Applied Physics, 2012, 111, 103716.	2.5	0

#	ARTICLE	IF	CITATIONS
55	Characterization of α -plane GaN thin film grown on pre-annealing $\hat{1}^2$ -LiGaO ₂ (100) substrate. Thin Solid Films, 2012, 526, 87-91.	1.8	0
56	Characterization of GaN microstructures grown by plasma-assisted molecular beam epitaxy. AIP Advances, 2013, 3, 062134.	1.3	0