

Hironori Okumura

List of Publications by Year in descending order

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28
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28
docs citations

28
times ranked

864
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertical GaN Junction Barrier Schottky Rectifiers by Selective Ion Implantation. IEEE Electron Device Letters, 2017, 38, 1097-1100.	3.9	136
2	Systematic investigation of the growth rate of $\text{In}^{2-}\text{Ga}_{2}\text{O}_{3}$ (010) by plasma-assisted molecular beam epitaxy. Applied Physics Express, 2014, 7, 095501.	2.4	122
3	AlN metal-oxide-semiconductor field-effect transistors using Si-ion implantation. Japanese Journal of Applied Physics, 2018, 57, 04FR11.	1.5	42
4	Dry and wet etching for $\text{In}^{2-}\text{Ga}_{2}\text{O}_{3}$ Schottky barrier diodes with mesa termination. Japanese Journal of Applied Physics, 2019, 58, 120902.	1.5	33
5	Nitrogen-Polar Polarization-Doped Field-Effect Transistor Based on $\text{Al}_{0.8}\text{Ga}_{0.2}\text{N}/\text{AlN}$ on SiC With Drain Current Over 100 mA/mm. IEEE Electron Device Letters, 2019, 40, 1245-1248.	3.9	32
6	Reduction of Threading Dislocation Density in 2H-AlN Grown on 6H-SiC(0001) by Minimizing Unintentional Active-Nitrogen Exposure before Growth. Applied Physics Express, 2011, 4, 025502.	2.4	29
7	Demonstration of lateral field-effect transistors using Sn-doped $\text{In}^{2-}(\text{AlGa})_{2}\text{O}_{3}$ (010). Japanese Journal of Applied Physics, 2019, 58, SBBD12.	1.5	29
8	Impact of surface step heights of 6H-SiC (0001) vicinal substrates in heteroepitaxial growth of 2H-AlN. Applied Surface Science, 2008, 254, 7858-7860.	6.1	26
9	Over-700-nm Critical Thickness of AlN Grown on 6H-SiC(0001) by Molecular Beam Epitaxy. Applied Physics Express, 2012, 5, 105502.	2.4	26
10	N-polar AlN buffer growth by metal-organic vapor phase epitaxy for transistor applications. Applied Physics Express, 2018, 11, 101002.	2.4	16
11	Enhancement of initial layer-by-layer growth and reduction of threading dislocation density by optimized Ga pre-irradiation in molecular-beam epitaxy of 2H-AlN on 6H-SiC(0001). Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2094-2096.	0.8	14
12	Formation mechanism of threading-dislocation array in AlN layers grown on 6H-SiC (0001) substrates with 3-bilayer-high surface steps. Applied Physics Letters, 2014, 105, .	3.3	14
13	Optical Properties of Highly Strained AlN Coherently Grown on 6H-SiC(0001). Applied Physics Express, 2013, 6, 062604.	2.4	12
14	Low p -type contact resistance by field-emission tunneling in highly Mg-doped GaN. Applied Physics Letters, 2016, 109, .	3.3	11
15	Vacancy-type defects in Mg-doped GaN grown by ammonia-based molecular beam epitaxy probed using a monoenergetic positron beam. Journal of Applied Physics, 2016, 119, 245702.	2.5	9
16	Fabrication of an AlN ridge structure using inductively coupled $\text{Cl}_{2}/\text{BCl}_{3}$ plasma and a TMAH solution. Japanese Journal of Applied Physics, 2019, 58, 026502.	1.5	9
17	Impurity diffusion in ion implanted AlN layers on sapphire substrates by thermal annealing. Japanese Journal of Applied Physics, 2022, 61, 026501.	1.5	8
18	<i>In situ</i> Gravimetric Monitoring of Thermal Decomposition and Hydrogen Etching Rates of 6H-SiC(0001) Si Face. Japanese Journal of Applied Physics, 2009, 48, 095505.	1.5	5

#	ARTICLE	IF	CITATIONS
19	Observation of novel defect structure in 2H-AlN grown on 6H-SiC(0001) substrates with 3-bilayer-height step-and-terrace structures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1187-1189.	1.8	5
20	Coherent Growth of AlN/GaN Short-Period Superlattice with Average GaN Mole Fraction of up to 20% on 6H-SiC(0001) Substrates by Plasma-Assisted Molecular-Beam Epitaxy. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 08JE21.	1.5	4
21	AlN/GaN Short-Period Superlattice Coherently Grown on 6H-SiC(0001) Substrates by Molecular Beam Epitaxy. <i>Applied Physics Express</i> , 2012, 5, 051002.	2.4	3
22	Growth of Nitrogen-Polar 2H-AlN on Step-Height-Controlled 6H-SiC(0001), Substrate by Molecular-Beam Epitaxy. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 02BH02.	1.5	3
23	Photo-induced conductivity transient in n-type $\hat{\Gamma}^2$ -(Al _{0.16} Ga _{0.84}) ₂ O ₃ and $\hat{\Gamma}^2$ -Ga ₂ O ₃ . <i>Japanese Journal of Applied Physics</i> , 2021, 60, SBB015.	1.5	2
24	Electrical properties of heavily Sn-doped (AlGa) ₂ O ₃ layers on $\hat{\Gamma}^2$ -Ga ₂ O ₃ (010) substrates. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 065504.	1.5	2
25	Optical and electrical properties of silicon-implanted $\hat{\Gamma}^2$ -Al ₂ O ₃ . <i>Japanese Journal of Applied Physics</i> , 2021, 60, 106502.	1.5	2
26	Growth of double-barrier $\hat{\Gamma}^2$ -(AlGa) ₂ O ₃ /Ga ₂ O ₃ structure and heavily Sn-doped Ga ₂ O ₃ layers using molecular-beam epitaxy. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 075503.	1.5	2
27	Growth of Nitrogen-Polar 2H-AlN on Step-Height-Controlled 6H-SiC(0001), Substrate by Molecular-Beam Epitaxy. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 02BH02.	1.5	1
28	Photoconductivity buildup and decay kinetics in unintentionally doped $\hat{\Gamma}^2$ -Ga ₂ O ₃ . <i>Japanese Journal of Applied Physics</i> , 0, , .	1.5	1