

Takayoshi Oshima

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10195666/publications.pdf>

Version: 2024-02-01

52
papers

3,165
citations

185998

28
h-index

182168

51
g-index

52
all docs

52
docs citations

52
times ranked

3073
citing authors

#	ARTICLE	IF	CITATIONS
1	Ga ₂ O ₃ Thin Film Growth on c-Plane Sapphire Substrates by Molecular Beam Epitaxy for Deep-Ultraviolet Photodetectors. Japanese Journal of Applied Physics, 2007, 46, 7217.	0.8	480
2	Carrier concentration dependence of band gap shift in n-type ZnO:Al films. Journal of Applied Physics, 2007, 101, 083705.	1.1	380
3	Vertical Solar-Blind Deep-Ultraviolet Schottky Photodetectors Based on $\hat{2}$ -Ga ₂ O ₃ Substrates. Applied Physics Express, 2008, 1, 011202.	1.1	342
4	Zno-based thin films synthesized by atmospheric pressure mist chemical vapor deposition. Journal of Crystal Growth, 2007, 299, 1-10.	0.7	160
5	Flame Detection by a $\hat{2}$ -Ga ₂ O ₃ -Based Sensor. Japanese Journal of Applied Physics, 2009, 48, 011605.	0.8	142
6	Surface morphology of homoepitaxial $\hat{2}$ -Ga ₂ O ₃ thin films grown by molecular beam epitaxy. Thin Solid Films, 2008, 516, 5768-5771.	0.8	128
7	$\hat{2}$ -Al ₂ xGa _{2-2x} O ₃ Thin Film Growth by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2009, 48, 070202.	0.8	110
8	Carrier confinement observed at modulation-doped $\hat{2}$ -(Al _x Ga _{1-x}) ₂ O ₃ interface. Applied Physics Express, 2017, 10, 035701.	1.1	105
9	Epitaxial growth of $\hat{3}$ -Ga ₂ O ₃ films by mist chemical vapor deposition. Journal of Crystal Growth, 2012, 359, 60-63.	0.7	98
10	Properties of Ga ₂ O ₃ -based (In _x) ₂ O ₃ epitaxy. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3113-3115.	0.8	75
11	Electrical properties of Schottky barrier diodes fabricated on (001) $\hat{2}$ -Ga ₂ O ₃ substrates with crystal defects. Japanese Journal of Applied Physics, 2017, 56, 086501.	0.8	74
12	Relationship between crystal defects and leakage current in $\hat{2}$ -Ga ₂ O ₃ Schottky barrier diodes. Japanese Journal of Applied Physics, 2016, 55, 1202BB.	0.8	70
13	Crystal defects observed by the etch-pit method and their effects on Schottky-barrier-diode characteristics on (001) $\hat{2}$ -Ga ₂ O ₃ . Japanese Journal of Applied Physics, 2017, 56, 091101.	0.8	63
14	Band-gap narrowing in $\hat{2}$ -(Cr _x Fe _{1-x}) ₂ O ₃ solid-solution films. Applied Physics Letters, 2011, 99, .	1.5	59
15	Wet Etching of $\hat{2}$ -Ga ₂ O ₃ Substrates. Japanese Journal of Applied Physics, 2009, 48, 040208.	0.8	53
16	Conducting Si-doped $\hat{3}$ -Ga ₂ O ₃ epitaxial films grown by pulsed-laser deposition. Journal of Crystal Growth, 2015, 421, 23-26.	0.7	48
17	$\hat{2}$ -Ga ₂ O ₃ Single Crystal as a Photoelectrode for Water Splitting. Japanese Journal of Applied Physics, 2013, 52, 111102.	0.8	47
18	Growth of SnO ₂ crystalline thin films by mist chemical vapour deposition method. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 540-542.	0.8	46

#	ARTICLE	IF	CITATIONS
19	Oxygen-radical-assisted pulsed-laser deposition of In^{2+} -Ga ₂ O ₃ and In^{2+} -(Al _{1-x} Ga _x) ₂ O ₃ films. Journal of Crystal Growth, 2015, 424, 77-79.	0.7	45
20	Formation of Semi-Insulating Layers on Semiconducting In^{2+} -Ga ₂ O ₃ Single Crystals by Thermal Oxidation. Japanese Journal of Applied Physics, 2013, 52, 051101.	0.8	39
21	Synthesis and magnetic properties of double-perovskite oxide $\text{La}_{2-x}\text{Ca}_x\text{Mn}_2\text{O}_{10}$ films. Physical Review B, 2015, 91, .	0.9	39
22	UV-B Sensor Based on a SnO ₂ Thin Film. Japanese Journal of Applied Physics, 2009, 48, 120207.	0.8	36
23	Formation of indium-tin oxide ohmic contacts for In^{2+} -Ga ₂ O ₃ . Japanese Journal of Applied Physics, 2016, 55, 1202B7.	0.8	36
24	Microwave Effects on Co-Pi Cocatalysts Deposited on In^{2+} -Fe ₂ O ₃ for Application to Photocatalytic Oxygen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 10349-10354.	4.0	36
25	Epitaxial growth and electric properties of In^{3+} -Al ₂ O ₃ (110) films on In^{2+} -Ga ₂ O ₃ (010) substrates. Japanese Journal of Applied Physics, 2016, 55, 1202B6.	0.8	33
26	Atomically controlled surfaces with step and terrace of In^{2+} -Ga ₂ O ₃ single crystal substrates for thin film growth. Applied Surface Science, 2008, 254, 7838-7842.	3.1	32
27	Spontaneous atomic ordering and magnetism in epitaxially stabilized double perovskites. Journal of Materials Research, 2013, 28, 689-695.	1.2	30
28	Epitaxial growth of wide-band-gap ZnGa ₂ O ₄ films by mist chemical vapor deposition. Journal of Crystal Growth, 2014, 386, 190-193.	0.7	30
29	Epitaxial growth of In^{3+} -(Al _x Ga _{1-x}) ₂ O ₃ alloy films for band-gap engineering. Applied Physics Express, 2017, 10, 051104.	1.1	29
30	Demonstration of lateral field-effect transistors using Sn-doped In^{2+} -(AlGa) ₂ O ₃ (010). Japanese Journal of Applied Physics, 2019, 58, SBBD12.	0.8	29
31	In-plane orientation control of (001) In^{2+} -Ga ₂ O ₃ by epitaxial lateral overgrowth through a geometrical natural selection mechanism. Japanese Journal of Applied Physics, 2020, 59, 115501.	0.8	26
32	In^{2+} -Al ₂ O ₃ /Ga ₂ O ₃ superlattices coherently grown on <i>c</i> -plane sapphire. Applied Physics Express, 2018, 11, 065501.	1.1	21
33	Fabrication and Characterization of Semiconductor Photoelectrodes with Orientation-Controlled In^{2+} -Fe ₂ O ₃ Thin Films. Journal of Physical Chemistry C, 2016, 120, 2747-2752.	1.5	20
34	Formation of stacking fault and dislocation behavior during the high-temperature annealing of single-crystal HPHT diamond. Diamond and Related Materials, 2017, 75, 155-160.	1.8	20
35	(111)-Oriented Zn ₃ N ₂ Growth on <i>c</i> -Plane Sapphire Substrates by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2006, 45, 8653-8655.	0.8	19
36	Rapid growth of In^{2+} -Ga ₂ O ₃ by HCl-boosted halide vapor phase epitaxy and effect of precursor supply conditions on crystal properties. Semiconductor Science and Technology, 2020, 35, 055022.	1.0	19

#	ARTICLE	IF	CITATIONS
37	Reversible superconductor-insulator transition in LiTi ₂ O ₄ induced by Li-ion electrochemical reaction. Scientific Reports, 2015, 5, 16325.	1.6	17
38	Characterization of pseudomorphic $\text{La}^{1-x}\text{Ca}_x\text{AlO}_3$ and $\text{La}^{1-x}\text{Al}_x\text{O}_3$ films on MgAl_2O_4 substrates and the band-alignment at the coherent $\text{La}^{1-x}\text{Ca}_x\text{AlO}_3/\text{Al}_2\text{O}_3$ heterojunction interface. Japanese Journal of Applied Physics, 2019, 58, 060910.	0.8	15
39	Measurements of the band alignment at coherent $\text{La}^{1-x}\text{Ca}_x\text{AlO}_3/\text{Al}_2\text{O}_3$ heterojunctions. Japanese Journal of Applied Physics, 2018, 57, 080308.	0.8	14
40	Pulsed-laser deposition of superconducting LiTi ₂ O ₄ ultrathin films. Journal of Crystal Growth, 2015, 419, 153-157.	0.7	11
41	Fabrication of coherent $\text{La}^{1-x}\text{Al}_x\text{O}_3/\text{Ga}_2\text{O}_3$ superlattices on MgAl_2O_4 substrates. Applied Physics Express, 2019, 12, 065503.	1.1	11
42	Selective area growth of $\text{La}^{1-x}\text{Ca}_x\text{O}_3$ by HCl-based halide vapor phase epitaxy. Applied Physics Express, 2022, 15, 075503.	1.1	11
43	Phase-controlled epitaxial lateral overgrowth of $\text{La}^{1-x}\text{Ca}_x\text{O}_3$ by halide vapor phase epitaxy. Japanese Journal of Applied Physics, 2020, 59, 025512.	0.8	10
44	$\text{La}^{1-x}\text{Ca}_x\text{O}_3$ -based metal-oxide semiconductor photodiodes with HfO_2 as oxide. Applied Physics Express, 2018, 11, 112202.	1.1	9
45	Epitaxial Structures of Band-Gap-Engineered $\text{La}^{1-x}(\text{Cr}_x\text{Fe}_{1-x})_2\text{O}_3$ ($0 \leq x \leq 1$) Films Grown on C-Plane Sapphire. Japanese Journal of Applied Physics, 2012, 51, 11PG11.	0.8	8
46	Epitaxial Synthesis and Electronic Properties of Double-Perovskite $\text{Sr}_2\text{TiRuO}_6$ Films. Applied Physics Express, 2013, 6, 105502.	1.1	8
47	Direct growth of metallic TiH ₂ thin films by pulsed laser deposition. Applied Physics Express, 2015, 8, 035801.	1.1	8
48	Microwave Power Rectification Using $\text{La}^{1-x}\text{Ca}_x\text{O}_3$ Schottky Barrier Diodes. IEEE Electron Device Letters, 2019, 40, 1393-1395.	2.2	7
49	In-plane anisotropy in the direction of the dislocation bending in $\text{La}^{1-x}\text{Ca}_x\text{O}_3$ grown by epitaxial lateral overgrowth. Applied Physics Express, 2020, 13, 115502.	1.1	7
50	Strain-induced metal-insulator transition in $\text{La}^{1-x}\text{Ca}_x\text{O}_3$ system of perovskite titanate	1.1	6
51	Hetero-epitaxial growth control of single-crystalline anatase TiO ₂ nanosheets predominantly exposing the {001} facet on oriented crystalline substrates. CrystEngComm, 2017, 19, 4734-4741.	1.3	4
52	Photodetectors. Springer Series in Materials Science, 2020, , 703-725.	0.4	0