Hiroyuki Nishinaka

List of Publications by Year
in descending order

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48 papers	1,741 citations	331670 21 h-index	276875 41 g-index
48 all docs	48 docs citations	48 times ranked	1513 citing authors

#	Article	IF	Citations
1	Carrier concentration dependence of band gap shift in n-type ZnO:Al films. Journal of Applied Physics, 2007, 101, 083705.	2.5	380
2	Zno-based thin films synthesized by atmospheric pressure mist chemical vapor deposition. Journal of Crystal Growth, 2007, 299, 1-10.	1.5	160
3	Growth of Crystalline Zinc Oxide Thin Films by Fine-Channel-Mist Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2008, 47, 4669.	1.5	109
4	Carrier concentration induced band-gap shift in Al-doped Zn1âˆ’xMgxO thin films. Applied Physics Letters, 2006, 89, 262107.	3.3	103
5	Linear-Source Ultrasonic Spray Chemical Vapor Deposition Method for Fabrication of ZnMgO Films and Ultraviolet Photodetectors. Japanese Journal of Applied Physics, 2006, 45, L857-L859.	1.5	87
6	Heteroepitaxial growth of Îµ-Ga₂O₃ thin films on cubic (111) MgO and (111) yttria-stablized zirconia substrates by mist chemical vapor deposition. Japanese Journal of Applied Physics, 2016, 55, 1202BC.	1.5	84
7	Stoichiometric control for heteroepitaxial growth of smooth Îµ-Ga₂O₃thin films on<i>c</i>-plane AlN templates by mist chemical vapor deposition. Japanese Journal of Applied Physics, 2017, 56, 078004.	1.5	68
8	Low-Temperature Growth of ZnO Thin Films by Linear Source Ultrasonic Spray Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2007, 46, 6811-6813.	1.5	65
9	Epitaxial growth of Î±-Ga2O3 thin films on a-, m-, and r-plane sapphire substrates by mist chemical vapor deposition using Î±-Fe2O3 buffer layers. Materials Letters, 2017, 205, 28-31.	2.6	63
10	Microstructures and rotational domains in orthorhombic Îµ-Ga₂O₃ thin films. Japanese Journal of Applied Physics, 2018, 57, 115601.	1.5	61
11	Heteroepitaxial growth of Îµ-(Al<i>x</i>Ga1âˆ’<i>x</i>)2O3 alloy films on <i>c</i>-plane AlN templates by mist chemical vapor deposition. Applied Physics Letters, 2018, 112, .	3.3	59
12	Incorporation of indium into Îµ-gallium oxide epitaxial thin films grown <i>via</i> mist chemical vapour deposition for bandgap engineering. CrystEngComm, 2018, 20, 1882-1888.	2.6	54
13	Heteroepitaxial growth of single-phase Îµ-Ga₂O₃ thin films on <i>c</i>-plane sapphire by mist chemical vapor deposition using a NiO buffer layer. CrystEngComm, 2018, 20, 6236-6242.	2.6	38
14	Growth characteristics of singleâ€crystalline ZnMgO layers by ultrasonic spray assisted mist CVD technique. Physica Status Solidi (B): Basic Research, 2010, 247, 1460-1463.	1.5	37
15	Rapid homoepitaxial growth of (010) Î²-Ga2O3 thin films via mist chemical vapor deposition. Materials Science in Semiconductor Processing, 2021, 128, 105732.	4.0	35
16	Use of mist chemical vapor deposition to impart ferroelectric properties to Îµ-Ga2O3 thin films on SnO2/c-sapphire substrates. Materials Letters, 2018, 232, 47-50.	2.6	26
17	Mist Chemical Vapor Deposition of Single-Phase Metastable Rhombohedral Indium Tin Oxide Epitaxial Thin Films with High Electrical Conductivity and Transparency on Various Î±-Al₂O₃ Substrates. Crystal Growth and Design, 2018, 18, 4022-4028.	3.0	24
18	Single-Domain and Atomically Flat Surface of Îº-Ga₂O₃ Thin Films on FZ-Grown Îµ-GaFeO₃ Substrates via Step-Flow Growth Mode. ACS Omega, 2020, 5, 29585-29592.	3.5	24

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19	Step-flow growth of homoepitaxial ZnO thin films by ultrasonic spray-assisted MOVPE. Journal of Crystal Growth, 2008, 310, 5007-5010.	1.5	23
20	Growth and characterization of F-doped Î±-Ga2O3 thin films with low electrical resistivity. Thin Solid Films, 2019, 682, 18-23.	1.8	23
21	Thermodynamically metastable Î±-, Îµ- (or Îº-), and Î³-Ga2O3: From material growth to device applications. APL Materials, 2022, 10, .	5.1	23
22	Solution-based mist CVD technique for CH₃NH₃Pb(Br_{1âˆ'}) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Applied Physics, 2016, 55, 100308.	1.5	21
23	Phase control of Î±- and Îº-Ga2O3 epitaxial growth on LiNbO3 and LiTaO3 substrates using Î±-Fe2O3 buffer layers. AIP Advances, 2020, 10, .	1.3	18
24	PEDOT:PSS/GaAs_{1âˆ'<i>x</i>}Bi<i> _x </i> organicâ€"inorganic solar cells. Japanese Journal of Applied Physics, 2019, 58, 060907.	1.5	16
25	van der Waals epitaxy of ferroelectric <i>Îµ</i>-gallium oxide thin film on flexible synthetic mica. Japanese Journal of Applied Physics, 2020, 59, 025503.	1.5	15
26	Impact of a small change in growth temperature on the tail states of GaAsBi. Journal of Applied Physics, 2019, 126, 045702.	2.5	14
27	Epitaxial growth of Î³-(AlxGa1-x)2O3 alloy thin films on spinel substrates via mist chemical vapor deposition. Journal of Alloys and Compounds, 2021, 851, 156927.	5.5	14
28	Plan-view TEM observation of a single-domain Îº-Ga₂O₃ thin film grown on Îµ-GaFeO₃ substrate using GaCl₃ precursor by mist chemical vapor deposition. Japanese Journal of Applied Physics, 2022, 61, 018002.	1.5	14
29	Deep levels and carrier capture kinetics in n-GaAsBi alloys investigated by deep level transient spectroscopy. Journal Physics D: Applied Physics, 2021, 54, 345109.	2.8	11
30	Epitaxial Growth of Bendable Cubic NiO and In2O3 Thin Films on Synthetic Mica for p- and n-type Wide-Bandgap Semiconductor Oxides. MRS Advances, 2020, 5, 1671-1679.	0.9	9
31	Junction properties of nitrogenâ€doped ZnO thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3088-3090.	0.8	8
32	Fabrication of a GaAs/GaNAsBi solar cell and its performance improvement by thermal annealing. Semiconductor Science and Technology, 2021, 36, 095020.	2.0	7
33	Alloying In₂O₃and Ga₂O₃on AlN templates for deep-ultraviolet transparent conductive films by mist chemical vapor deposition. Japanese Journal of Applied Physics, 2022, 61, SC1037.	1.5	6
34	Improving the photovoltaic properties of GaAs/GaAsBi pin diodes by inserting a compositionally graded layer at the hetero-interface. Semiconductor Science and Technology, 2022, 37, 065016.	2.0	6
35	Heteroepitaxial growth of Îµ-Ga<inf>2</inf>O<inf>3</inf> thin films on cubic (111) GGG substrates by mist chemical vapor deposition. , 2017, , .		5
36	A preliminary study on mist CVD-derived ferroelectric Hf_{1âˆ'<i>x</i>}Zr<i> _x </i>O₂ films featuring its possibility of suitable operation for non-volatile analog memory. Japanese Journal of Applied Physics, 2020, 59, SPPB09.	1.5	5

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37	Observing the microstructure of a (001) Îº-Ga₂O₃ thin film grown on a (âˆ’201) Î²-Ga₂O₃ substrate using automated crystal orientation mapping transmission electron microscopy. CrystEngComm, 2022, 24, 3239-3245.	2.6	5
38	Determination of Zn-containing sites in<i>Î²</i>-Ga₂O₃film grown through mist chemical vapor deposition via X-ray absorption spectroscopy. Japanese Journal of Applied Physics, 2020, 59, 070909.	1.5	4
39	Epitaxial growth of metastable c-plane rhombohedral indium tin oxide using mist chemical vapor deposition. Materials Science in Semiconductor Processing, 2022, 147, 106689.	4.0	4
40	Growth of indium-incorporated Îº-Ga2O3 thin film lattice-matched to the Îµ-GaFeO3 substrate. Materials Letters: X, 2022, 14, 100149.	0.7	4
41	Mist Deposition Technique as a Green Chemical Route for Synthesizing Oxide and Organic Thin Films. Materials Research Society Symposia Proceedings, 2009, 1220, 4061.	0.1	3
42	Mist chemical vapor deposition study of 20 and 100 nm thick undoped ferroelectric hafnium oxide films on n+-Si(100) substrates. Japanese Journal of Applied Physics, 2019, 58, SLLB10.	1.5	2
43	Growth of Metastable Î±-Ga₂O₃ Epitaxial Thin Film on Flexible Synthetic Mica by Insertion Î±-Fe₂O₃ Buffer Layer. Zairyo/Journal of the Society of Materials Science, Japan, 2021, 70, 738-744.	0.2	2
44	Fabrication OF ZnO and ZnMgO Thin Films and UV Photodetectors by Mist Chemical Vapor Deposition Method. Materials Research Society Symposia Proceedings, 2006, 957, 1.	0.1	1
45	Mist Chemical Vapor Deposition 2. Springer Series in Materials Science, 2020, , 243-255.	0.6	1
46	Ultrasonic spray assisted Mist-CVD method for high-quality crystalline and amorphous oxide semiconductors growth. Materials Research Society Symposia Proceedings, 2008, 1113, 1.	0.1	0
47	Microstructures of $varepsilon - mathrm{Ga}_{2}mathrm{O}_{3}$ thin film on (100) TiO2 substrate by mist chemical vapor deposition. , 2019, , .		0
48	Investigation of deep level defects in n-type GaAsBi. , 2022, , .		0