

Akira Uedono

List of Publications by Year in descending order

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419
papers

7,096
citations

81743

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422
all docs

422
docs citations

422
times ranked

5066
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of defect-insensitive emission probability in In-containing (Al,In,Ga)N alloy semiconductors. Nature Materials, 2006, 5, 810-816.	13.3	625
2	Correlation between the photoluminescence lifetime and defect density in bulk and epitaxial ZnO. Applied Physics Letters, 2003, 82, 532-534.	1.5	232
3	Limiting factors of room-temperature nonradiative photoluminescence lifetime in polar and nonpolar GaN studied by time-resolved photoluminescence and slow positron annihilation techniques. Applied Physics Letters, 2005, 86, 021914.	1.5	138
4	The origins and properties of intrinsic nonradiative recombination centers in wide bandgap GaN and AlGa _N . Journal of Applied Physics, 2018, 123, .	1.1	112
5	Improvements in quantum efficiency of excitonic emissions in ZnO epilayers by the elimination of point defects. Journal of Applied Physics, 2006, 99, 093505.	1.1	105
6	Defects in ZnO thin films grown on ScAlMgO ₄ substrates probed by a monoenergetic positron beam. Journal of Applied Physics, 2003, 93, 2481-2485.	1.1	103
7	Impacts of Si-doping and resultant cation vacancy formation on the luminescence dynamics for the near-band-edge emission of Al _{0.6} Ga _{0.4} N films grown on AlN templates by metalorganic vapor phase epitaxy. Journal of Applied Physics, 2013, 113, .	1.1	98
8	Study of defects in GaN grown by the two-flow metalorganic chemical vapor deposition technique using monoenergetic positron beams. Journal of Applied Physics, 2001, 90, 181-186.	1.1	92
9	Radiative and nonradiative processes in strain-free Al _x Ga _{1-x} N films studied by time-resolved photoluminescence and positron annihilation techniques. Journal of Applied Physics, 2004, 95, 2495-2504.	1.1	88
10	Generation of Thermal Muonium in Vacuum. Physical Review Letters, 1986, 56, 1463-1466.	2.9	75
11	Study of oxygen vacancies in SrTiO ₃ by positron annihilation. Journal of Applied Physics, 2002, 92, 2697-2702.	1.1	73
12	Effect of La doping on the lattice defects and photoluminescence properties of CuO. Journal of Alloys and Compounds, 2017, 709, 496-504.	2.8	73
13	Nitrogen vacancies as a common element of the green luminescence and nonradiative recombination centers in Mg-implanted GaN layers formed on a GaN substrate. Applied Physics Express, 2017, 10, 061002.	1.1	70
14	Relation between Al vacancies and deep emission bands in AlN epitaxial films grown by NH ₃ -source molecular beam epitaxy. Applied Physics Letters, 2007, 90, 241914.	1.5	69
15	Time-resolved photoluminescence, positron annihilation, and Al _{0.23} Ga _{0.77} N/GaN heterostructure growth studies on low defect density polar and nonpolar freestanding GaN substrates grown by hydride vapor phase epitaxy. Journal of Applied Physics, 2012, 111, .	1.1	67
16	Exciton-polariton spectra and limiting factors for the room-temperature photoluminescence efficiency in ZnO. Semiconductor Science and Technology, 2005, 20, S67-S77.	1.0	66
17	Vacancy-type defects and their annealing behaviors in Mg-implanted GaN studied by a monoenergetic positron beam. Physica Status Solidi (B): Basic Research, 2015, 252, 2794-2801.	0.7	65
18	Vacancy-oxygen complexes and their optical properties in AlN epitaxial films studied by positron annihilation. Journal of Applied Physics, 2009, 105, .	1.1	63

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19	Synthesis, defect characterization and photocatalytic degradation efficiency of Tb doped CuO nanoparticles. <i>Advanced Powder Technology</i> , 2017, 28, 3026-3038.	2.0	61
20	Carrier Trapping by Vacancy-Type Defects in Mg-Implanted GaN Studied Using Monoenergetic Positron Beams. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700521.	0.7	60
21	Impact of growth polar direction on the optical properties of GaN grown by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , 2001, 78, 28-30.	1.5	57
22	Radiative and nonradiative excitonic transitions in nonpolar (112̄,0) and polar (0001̄,) and (0001) ZnO epilayers. <i>Applied Physics Letters</i> , 2004, 84, 1079-1081.	1.5	55
23	Large electron capture-cross-section of the major nonradiative recombination centers in Mg-doped GaN epilayers grown on a GaN substrate. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	55
24	Effect of Free-Volume Holes on Dynamic Mechanical Properties of Epoxy Resins for Carbon-Fiber-Reinforced Polymers. <i>Macromolecules</i> , 2017, 50, 3933-3942.	2.2	54
25	A Study of Vacancy-Type Defects in B+-Implanted SiO ₂ /Si by a Slow Positron Beam. <i>Japanese Journal of Applied Physics</i> , 1989, 28, 1293-1297.	0.8	53
26	Brightness enhancement method for a high-intensity positron beam produced by an electron accelerator. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	53
27	Native cation vacancies in Si-doped AlGa _N studied by monoenergetic positron beams. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	53
28	The dependence of oxygen vacancy distributions in BiFeO ₃ films on oxygen pressure and substrate. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	52
29	Point defects in group-III nitride semiconductors studied by positron annihilation. <i>Journal of Crystal Growth</i> , 2009, 311, 3075-3079.	0.7	51
30	Recent advances and challenges for successful p-type control of InN films with Mg acceptor doping by molecular beam epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 1011-1023.	0.8	48
31	A study of agglomeration and release processes of helium implanted in nickel by a variable energy positron beam. <i>Journal of Nuclear Materials</i> , 1985, 133-134, 463-467.	1.3	47
32	Transition and relaxation processes of polyethylene, polypropylene, and polystyrene studied by positron annihilation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 1601-1609.	2.4	47
33	Investigation of defect related photoluminescence property of multicolour emitting Gd ₂ O ₃ :Dy ³⁺ phosphor. <i>RSC Advances</i> , 2014, 4, 34257.	1.7	47
34	Free and bound exciton fine structures in AlN epilayers grown by low-pressure metalorganic vapor phase epitaxy. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	45
35	Rapid three-dimensional imaging of defect distributions using a high-intensity positron microbeam. <i>Applied Physics Letters</i> , 2009, 94, 194104.	1.5	43
36	Recent Progress in Gas Barrier Thin Film Coatings on PET Bottles in Food and Beverage Applications. <i>Coatings</i> , 2015, 5, 987-1001.	1.2	43

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37	AlN metal-oxide-semiconductor field-effect transistors using Si-ion implantation. Japanese Journal of Applied Physics, 2018, 57, 04FR11.	0.8	42
38	Metal ion binding properties of novel wool powders. Journal of Applied Polymer Science, 2010, 115, 1642-1650.	1.3	41
39	Room-temperature photoluminescence lifetime for the near-band-edge emission of (0001Å) p-type GaN fabricated by sequential ion-implantation of Mg and H. Applied Physics Letters, 2018, 113, .	1.5	40
40	Defect Production in Phosphorus Ion-Implanted SiO ₂ (43 nm)/Si Studied by a Variable-Energy Positron Beam. Japanese Journal of Applied Physics, 1991, 30, 201-206.	0.8	39
41	Improvement of crystal quality of GaInNAs films grown by atomic hydrogen-assisted RF-MBE. Journal of Crystal Growth, 2005, 278, 553-557.	0.7	39
42	Interlaboratory comparison of positron annihilation lifetime measurements for synthetic fused silica and polycarbonate. Journal of Applied Physics, 2008, 104, .	1.1	39
43	Annealing properties of vacancy-type defects in ion-implanted GaN studied by monoenergetic positron beams. Journal of Applied Physics, 2007, 102, 084505.	1.1	38
44	Defect-Resistant Radiative Performance of Al _x In _x N Epitaxial Nanostructures for Deep-Ultraviolet and Visible Polarized Light Emitters. Advanced Materials, 2017, 29, 1603644.	11.1	38
45	Low temperature buffer growth for modulation doped SiGe/Ge/SiGe heterostructures with high hole mobility. Thin Solid Films, 2000, 369, 320-323.	0.8	36
46	Positronium formation in SiO ₂ films grown on Si substrates studied by monoenergetic positron beams. Journal of Applied Physics, 1994, 75, 3822-3828.	1.1	35
47	Nanoporous structure of methyl-silsesquioxane films using monoenergetic positron beams. Journal of Applied Physics, 2001, 90, 2498-2503.	1.1	35
48	Leaching properties of chromate-containing epoxy films using radiotracers, PALS and SEM. Progress in Organic Coatings, 2014, 77, 257-267.	1.9	35
49	Vacancy-type defects in Si-implanted GaAs and its effects on electrical activation by rapid thermal annealing. Journal of Applied Physics, 1990, 67, 6153-6158.	1.1	34
50	Reduced defect densities in the ZnO epilayer grown on Si substrates by laser-assisted molecular-beam epitaxy using a ZnS epitaxial buffer layer. Applied Physics Letters, 2004, 85, 5586-5588.	1.5	34
51	Vacancy-type defects in BaTiO ₃ /SrTiO ₃ structures probed by monoenergetic positron beams. Journal of Applied Physics, 2002, 91, 5307-5312.	1.1	33
52	Defect characterization in Mg-doped GaN studied using a monoenergetic positron beam. Journal of Applied Physics, 2012, 111, .	1.1	33
53	Formation of low resistance ohmic contacts in GaN-based high electron mobility transistors with BCl ₃ surface plasma treatment. Applied Physics Letters, 2013, 103, .	1.5	33
54	First-principles calculation of positron states and annihilation parameters for group-III nitrides. Journal of Physics: Conference Series, 2014, 505, 012010.	0.3	33

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55	Positron annihilation in electron irradiated Cz-Si. <i>Hyperfine Interactions</i> , 1993, 79, 615-619.	0.2	32
56	Annealing Properties of Defects in B ⁺ - and F ⁺ -Implanted Si Studied Using Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 2571-2580.	0.8	32
57	Characterization of Grown-in Dislocations in Benzophenone Single Crystals by X-Ray Topography. <i>Japanese Journal of Applied Physics</i> , 1992, 31, 2202-2205.	0.8	31
58	Major impacts of point defects and impurities on the carrier recombination dynamics in AlN. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	31
59	Impact of back-grinding-induced damage on Si wafer thinning for three-dimensional integration. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05GE04.	0.8	30
60	Simple way of finding Ba to Si deposition rate ratios for high photoresponsivity in BaSi ₂ films by Raman spectroscopy. <i>Applied Physics Express</i> , 2019, 12, 055506.	1.1	30
61	Epitaxial growth of BaTiO ₃ /SrTiO ₃ structures on SrTiO ₃ substrate with automatic feeding of oxygen from the substrate. <i>Journal of Applied Physics</i> , 2002, 92, 4625-4630.	1.1	29
62	Defects Introduced by MeV-Energy Ion Implantation into Si Probed by a Monoenergetic Positron Beam. <i>Japanese Journal of Applied Physics</i> , 1991, 30, 1597-1603.	0.8	28
63	Investigation of Positron Moderator Materials for Electron-Linac-Based Slow Positron Beamlines. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 4636-4643.	0.8	28
64	Behavior of oxygen vacancies in BiFeO ₃ /SrRuO ₃ /SrTiO ₃ (100) and DyScO ₃ (100) heterostructures. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	28
65	Identification of extremely radiative nature of AlN by time-resolved photoluminescence. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	28
66	Variable-energy positron beam studies of SiO ₂ /Si irradiated by ionizing radiation. <i>Applied Physics Letters</i> , 1988, 53, 473-475.	1.5	27
67	Vacancy-Type Defects in As ⁺ -Implanted SiO ₂ (43 nm)/Si Probed with Slow Positrons. <i>Japanese Journal of Applied Physics</i> , 1990, 29, 1867-1872.	0.8	27
68	Impact of Al in Cu alloy interconnects on electro and stress migration reliabilities. <i>Microelectronic Engineering</i> , 2008, 85, 2137-2141.	1.1	27
69	Collateral evidence for an excellent radiative performance of Al _x Ga _{1-x} N alloy films of high AlN mole fractions. <i>Applied Physics Letters</i> , 2011, 99, 051902.	1.5	27
70	Excitonic emission dynamics in homoepitaxial AlN films studied using polarized and spatio-time-resolved cathodoluminescence measurements. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	27
71	Annealing Behavior of Vacancy-Type Defects in Mg- and H-Implanted GaN Studied Using Monoenergetic Positron Beams. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900104.	0.7	27
72	Metal/oxide/semiconductor interface investigated by monoenergetic positrons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 133, 82-84.	0.9	26

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73	Depth profile of vacancy-type defects in B-implanted Si with a SiO ₂ overlayer by a variable-energy positron beam. Applied Physics Letters, 1988, 53, 25-27.	1.5	26
74	Positron annihilation in SiO ₂ -Si studied by a pulsed slow positron beam. Applied Surface Science, 2002, 194, 89-96.	3.1	26
75	Origin of localized excitons in In-containing three-dimensional bulk (Al,In,Ga)N alloy films probed by time-resolved photoluminescence and monoenergetic positron annihilation techniques. Philosophical Magazine, 2007, 87, 2019-2039.	0.7	26
76	Positron Annihilation Spectroscopy on Nitride-Based Semiconductors. Japanese Journal of Applied Physics, 2013, 52, 08JJ02.	0.8	26
77	<i>In-situ</i> characterization of free-volume holes in polymer thin films under controlled humidity conditions with an atmospheric positron probe microanalyzer. Applied Physics Letters, 2012, 101, .	1.5	25
78	Room temperature photoluminescence lifetime for the near-band-edge emission of epitaxial and ion-implanted GaN on GaN structures. Japanese Journal of Applied Physics, 2019, 58, SC0802.	0.8	25
79	Defects introduced into electroplated Cu films during room-temperature recrystallization probed by a monoenergetic positron beam. Journal of Applied Physics, 2005, 98, 043504.	1.1	24
80	Vacancy-type defects in Er-doped GaN studied by a monoenergetic positron beam. Journal of Applied Physics, 2008, 103, 104505.	1.1	24
81	Vacancy-type defects in Mg-doped InN probed by means of positron annihilation. Journal of Applied Physics, 2009, 105, .	1.1	24
82	Thermal stability of semi-insulating property of Fe-doped GaN bulk films studied by photoluminescence and monoenergetic positron annihilation techniques. Journal of Applied Physics, 2009, 105, 083542.	1.1	24
83	Annealing behaviors of vacancy-type defects in AlN deposited by radio-frequency sputtering and metalorganic vapor phase epitaxy studied using monoenergetic positron beams. Journal of Applied Physics, 2020, 128, .	1.1	24
84	Characterization of Diamond Films Synthesized on Si from a Gas Phase in Microwave Plasma by Slow Positrons. Japanese Journal of Applied Physics, 1990, 29, 555-559.	0.8	23
85	Characterization of Separation-by-Implanted-Oxygen Wafers with Monoenergetic Positron Beams. Japanese Journal of Applied Physics, 1993, 32, 3682-3686.	0.8	23
86	Effects of Recoil-Implanted Oxygen on Depth Profiles of Defects and Annealing Processes in P ⁺ -Implanted Si Studied Using Monoenergetic Positron Beams. Japanese Journal of Applied Physics, 1996, 35, 2000-2007.	0.8	23
87	Vacancy-type defects in electroplated Cu films probed by using a monoenergetic positron beam. Journal of Applied Physics, 2004, 95, 913-918.	1.1	23
88	Positron Annihilation in Proton Irradiated Czochralski-Grown Si. Japanese Journal of Applied Physics, 1994, 33, 1-5.	0.8	22
89	Characterization of vacancy-type defects and phosphorus donors introduced in 6H-SiC by ion implantation. Applied Physics A: Materials Science and Processing, 1998, 67, 407-412.	1.1	22
90	Hydrogen-terminated defects in ion-implanted silicon probed by monoenergetic positron beams. Journal of Applied Physics, 2003, 93, 3228-3233.	1.1	22

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91	Characterization of HfSiON gate dielectrics using monoenergetic positron beams. Journal of Applied Physics, 2006, 99, 054507.	1.1	22
92	Optically active vacancies in GaN grown on Si substrates probed using a monoenergetic positron beam. Applied Physics Letters, 2014, 104, 082110.	1.5	22
93	Enhanced photo/electroluminescence properties of Eu-doped GaN through optimization of the growth temperature and Eu related defect environment. APL Materials, 2016, 4, 056103.	2.2	22
94	Surface sealing using self-assembled monolayers and its effect on metal diffusion in porous low- k dielectrics studied using monoenergetic positron beams. Applied Surface Science, 2016, 368, 272-276.	3.1	22
95	Vacancies and electron trapping centers in acidic ammonothermal GaN probed by a monoenergetic positron beam. Journal of Crystal Growth, 2016, 448, 117-121.	0.7	22
96	Influence of Si wafer thinning processes on (sub)surface defects. Applied Surface Science, 2017, 404, 82-87.	3.1	22
97	Effects of ultra-high-pressure annealing on characteristics of vacancies in Mg-implanted GaN studied using a monoenergetic positron beam. Scientific Reports, 2020, 10, 17349.	1.6	22
98	Study of various types of diamonds by measurements of double crystal x-ray diffraction and positron annihilation. Journal of Applied Physics, 1995, 78, 1510-1513.	1.1	21
99	Improvement of hydrogen absorption rate of Pd by ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2003, 206, 224-227.	0.6	21
100	A positron annihilation lifetime measurement system with an intense positron microbeam. Radiation Physics and Chemistry, 2009, 78, 1096-1098.	1.4	21
101	Vacancy-Boron Complexes in Plasma Immersion Ion-Implanted Si Probed by a Monoenergetic Positron Beam. Japanese Journal of Applied Physics, 2010, 49, 051301.	0.8	21
102	Low-resistivity m -plane freestanding GaN substrate with very low point-defect concentrations grown by hydride vapor phase epitaxy on a GaN seed crystal synthesized by the ammonothermal method. Applied Physics Express, 2015, 8, 095501.	1.1	21
103	Vacancy-type defects in Al ₂ O ₃ /GaN structure probed by monoenergetic positron beams. Journal of Applied Physics, 2018, 123, .	1.1	21
104	Effect of free-volume holes on static mechanical properties of epoxy resins studied by positron annihilation and PVT experiments. Polymer, 2020, 190, 122225.	1.8	21
105	Positron Annihilation in Vitreous Silica Glasses. Japanese Journal of Applied Physics, 1993, 32, 2687-2691.	0.8	20
106	Study of relaxation processes in polyethylene and polystyrene by positron annihilation. Journal of Polymer Science, Part B: Polymer Physics, 1996, 34, 2145-2151.	2.4	20
107	Annealing properties of defects during Si-on-insulator fabrication by low-dose oxygen implantation studied by monoenergetic positron beams. Journal of Applied Physics, 2000, 87, 1659-1665.	1.1	20
108	Characterization of low temperature grown Si layer for SiGe pseudo-substrates by positron annihilation spectroscopy. Journal of Crystal Growth, 2001, 227-228, 761-765.	0.7	20

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109	Direct comparison of photoluminescence lifetime and defect densities in ZnO epilayers studied by time-resolved photoluminescence and slow positron annihilation techniques. <i>Physica Status Solidi A</i> , 2004, 201, 2841-2845.	1.7	20
110	Annealing properties of open volumes in HfSiOx and HfAlOx gate dielectrics studied using monoenergetic positron beams. <i>Journal of Applied Physics</i> , 2005, 98, 023506.	1.1	20
111	Vacancy-type defects in In _x Ga _{1-x} N alloys probed using a monoenergetic positron beam. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	20
112	Characterization of Diamond Films by Means of a Pulsed Positron Beam. <i>Japanese Journal of Applied Physics</i> , 1992, 31, 2237-2240.	0.8	19
113	SiO ₂ films deposited on Si substrates studied by monoenergetic positron beams. <i>Journal of Applied Physics</i> , 1994, 75, 216-222.	1.1	19
114	Defects in electron irradiated vitreous SiO ₂ probed by positron annihilation. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 8669-8677.	0.7	19
115	Free volumes in polystyrene probed by positron annihilation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 1189-1195.	2.4	19
116	Open spaces in the subsurface region of polyethylene probed by monoenergetic positron beams. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 2597-2605.	2.4	19
117	Defects Induced by Wafer Processing and Thermal Treatment in InP Probed with Monoenergetic Positrons. <i>Japanese Journal of Applied Physics</i> , 1990, 29, 909-912.	0.8	18
118	Impact of Cu/III ratio on the near-surface defects in polycrystalline CuGaSe ₂ thin films. <i>Applied Physics Letters</i> , 2011, 98, 112105.	1.5	18
119	Behavior of copper contamination on backside damage for ultra-thin silicon three dimensional stacking structure. <i>Microelectronic Engineering</i> , 2017, 167, 23-31.	1.1	18
120	Carrier activation in Mg implanted GaN by short wavelength Nd:YAG laser thermal annealing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700225.	0.8	18
121	Depth profiles on ion implantation induced vacancy-type defects in GaAs and Si observed by slow positron. <i>Applied Physics Letters</i> , 1988, 53, 1302-1304.	1.5	17
122	Free volumes in liquid-crystalline main-chain polymer probed by positron annihilation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 891-897.	2.4	17
123	Thermal variation of free-volumes size distribution in polypropylenes. Probed by positron annihilation lifetime technique. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 1183-1190.	2.4	17
124	Vacancy-Type Defects in Ion-Implanted Diamonds Probed by Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , 1995, 34, 1772-1777.	0.8	17
125	Defects in Ion-Implanted 3C-SiC Probed by a Monoenergetic Positron Beam. <i>Japanese Journal of Applied Physics</i> , 1996, 35, 5986-5990.	0.8	17
126	Free Volume in Polycarbonate Studied by Positron Annihilation: Effects of Free Radicals and Trapped Electrons on Positronium Formation. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 5036-5040.	0.8	17

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127	Defects in Eu- and Tb-doped GaN probed using a monoenergetic positron beam. Journal of Applied Physics, 2003, 93, 5181-5184.	1.1	17
128	Valence band edge tail states and band gap defect levels of GaN bulk and In _x Ga _{1-x} N films detected by hard X-ray photoemission and photothermal deflection spectroscopy. Applied Physics Express, 2018, 11, 021002.	1.1	17
129	Investigation of Al ₂ O ₃ /GaN interface properties by sub-bandgap photo-assisted capacitance-voltage technique. AIP Advances, 2019, 9, .	0.6	17
130	Positron Study of Vacancy-Type Defects Induced by Heavy Doping into MBE-Grown GaAs. Japanese Journal of Applied Physics, 1990, 29, L346-L348.	0.8	16
131	Impact of Point Defects on the Luminescence Properties of (Al,Ga)N. Materials Science Forum, 0, 590, 233-248.	0.3	16
132	Using X-ray tomography, PALS and Raman spectroscopy for characterization of inhibitors in epoxy coatings. Progress in Organic Coatings, 2012, 74, 726-733.	1.9	16
133	Effect of dopant concentration and annealing of Yttrium doped CuO nanocrystallites studied by positron annihilation spectroscopy. Journal of Alloys and Compounds, 2019, 788, 549-558.	2.8	16
134	Annealing Properties of Defects in Ion-Implanted 3C-SiC Studied Using Monoenergetic Positron Beams. Japanese Journal of Applied Physics, 1997, 36, 6650-6660.	0.8	15
135	Crystallization of an amorphous layer in P ⁺ -implanted 6H-SiC studied by monoenergetic positron beams. Journal of Applied Physics, 2000, 87, 4119-4125.	1.1	15
136	Positron annihilation in silicon in thermal equilibrium at high temperature. Journal of Physics Condensed Matter, 2000, 12, 719-728.	0.7	15
137	Local Bonding Structure of High-Stress Silicon Nitride Film Modified by UV Curing for Strained Silicon Technology beyond 45 nm Node SoC Devices. Japanese Journal of Applied Physics, 2007, 46, 1984-1988.	0.8	15
138	Impact of Se flux on the defect formation in polycrystalline Cu(In,Ga)Se ₂ thin films grown by three stage evaporation process. Journal of Applied Physics, 2013, 113, 064907.	1.1	15
139	Vacancy-type defects in In _x Ga _{1-x} N grown on GaN templates probed using monoenergetic positron beams. Journal of Applied Physics, 2013, 114, .	1.1	15
140	Molecular motion and relaxation below glass transition temperature in poly (methyl methacrylate) studied by positron annihilation. Radiation Physics and Chemistry, 2015, 108, 81-86.	1.4	15
141	Probing the effect of point defects on the leakage blocking capability of Al _{0.1} Ga _{0.9} N/Si structures using a monoenergetic positron beam. Journal of Applied Physics, 2016, 120, .	1.1	15
142	Vacancy-type defects in bulk GaN grown by the Na-flux method probed using positron annihilation. Journal of Crystal Growth, 2017, 475, 261-265.	0.7	15
143	Homoepitaxial Growth of SrTiO ₃ in an Ultrahigh Vacuum with Automatic Feeding of Oxygen from the Substrate at Temperatures as Low as 370Å°C. Japanese Journal of Applied Physics, 2002, 41, L269-L271.	0.8	14
144	Defects in CeO ₂ /SrTiO ₃ fabricated by automatic feeding epitaxy probed using positron annihilation. Journal of Applied Physics, 2003, 94, 5193.	1.1	14

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145	Vacancy-type defects in Si-doped InN grown by plasma-assisted molecular-beam epitaxy probed using monoenergetic positron beams. <i>Journal of Applied Physics</i> , 2005, 97, 043514.	1.1	14
146	Effect of growth temperature on the properties of Ga(In)NAs thin films by atomic hydrogen-assisted RF-MBE. <i>Journal of Crystal Growth</i> , 2007, 301-302, 579-582.	0.7	14
147	Slow Positron Beam Apparatus for Surface and Subsurface Analysis of Samples in Air. <i>Applied Physics Express</i> , 2011, 4, 066701.	1.1	14
148	(Invited) Point Defect Characterization of Group-III Nitrides by Using Monoenergetic Positron Beams. <i>ECS Transactions</i> , 2014, 61, 19-30.	0.3	14
149	Computational study of positron annihilation parameters for cation mono-vacancies and vacancy complexes in nitride semiconductor alloys. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 475401.	0.7	14
150	Characterization of the distribution of defects introduced by plasma exposure in Si substrate. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	0.9	14
151	Release processes of He implanted in Cu and Ni studied by a monoenergetic positron beam. <i>Journal of Nuclear Materials</i> , 1991, 184, 191-196.	1.3	13
152	Annihilation of positronium in SiO_2 investigated by combined angular correlation and lifetime measurements. <i>Physical Review B</i> , 1996, 54, 15051-15055.	1.1	13
153	Characterization of residual defects in cubic silicon carbide subjected to hot-implantation and subsequent annealing. <i>Journal of Applied Physics</i> , 1997, 82, 5339-5347.	1.1	13
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