# Akira Uedono

### List of Publications by Citations

Source: https://exaly.com/author-pdf/586003/akira-uedono-publications-by-citations.pdf

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

5,869 35 375 57 h-index g-index citations papers 6,437 5.38 422 2.4 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
375	Origin of defect-insensitive emission probability in In-containing (Al,In,Ga)N alloy semiconductors.  Nature Materials, <b>2006</b> , 5, 810-6	27	548
374	Correlation between the photoluminescence lifetime and defect density in bulk and epitaxial ZnO. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 532-534	3.4	215
373	Limiting factors of room-temperature nonradiative photoluminescence lifetime in polar and nonpolar GaN studied by time-resolved photoluminescence and slow positron annihilation techniques. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 021914	3.4	116
372	Defects in ZnO thin films grown on ScAlMgO4 substrates probed by a monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 2481-2485	2.5	98
371	Improvements in quantum efficiency of excitonic emissions in ZnO epilayers by the elimination of point defects. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 093505	2.5	96
370	Radiative and nonradiative processes in strain-free AlxGa1\( \text{N} \) films studied by time-resolved photoluminescence and positron annihilation techniques. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 2495-250	<i>2</i> ·5	82
369	Study of defects in GaN grown by the two-flow metalorganic chemical vapor deposition technique using monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 181-186	2.5	80
368	Impacts of Si-doping and resultant cation vacancy formation on the luminescence dynamics for the near-band-edge emission of Al0.6Ga0.4N films grown on AlN templates by metalorganic vapor phase epitaxy. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 213506	2.5	73
367	The origins and properties of intrinsic nonradiative recombination centers in wide bandgap GaN and AlGaN. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 161413	2.5	70
366	Generation of thermal muonium in vacuum. <i>Physical Review Letters</i> , <b>1986</b> , 56, 1463-1466	7.4	64
365	Excitonpolariton spectra and limiting factors for the room-temperature photoluminescence efficiency in ZnO. <i>Semiconductor Science and Technology</i> , <b>2005</b> , 20, S67-S77	1.8	61
364	Study of oxygen vacancies in SrTiO3 by positron annihilation. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 2697-	2 <u>7</u> .92	61
363	Relation between Al vacancies and deep emission bands in AlN epitaxial films grown by NH3-source molecular beam epitaxy. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 241914	3.4	60
362	Time-resolved photoluminescence, positron annihilation, and Al0.23Ga0.77N/GaN heterostructure growth studies on low defect density polar and nonpolar freestanding GaN substrates grown by hydride vapor phase epitaxy. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 103518	2.5	56
361	Vacancy-oxygen complexes and their optical properties in AlN epitaxial films studied by positron annihilation. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 054501	2.5	54
360	Vacancy-type defects and their annealing behaviors in Mg-implanted GaN studied by a monoenergetic positron beam. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 2794-2801	1.3	52
359	Radiative and nonradiative excitonic transitions in nonpolar (112 0) and polar (0001) and (0001) ZnO epilayers. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1079-1081	3.4	50

### (2000-2001)

358	Impact of growth polar direction on the optical properties of GaN grown by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 28-30	3.4	50	
357	Nitrogen vacancies as a common element of the green luminescence and nonradiative recombination centers in Mg-implanted GaN layers formed on a GaN substrate. <i>Applied Physics Express</i> , <b>2017</b> , 10, 061002	2.4	49	
356	The dependence of oxygen vacancy distributions in BiFeO3 films on oxygen pressure and substrate. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 012904	3.4	48	
355	Brightness enhancement method for a high-intensity positron beam produced by an electron accelerator. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 094916	2.5	48	
354	A Study of Vacancy-Type Defects in B+-Implanted SiO2/Si by a Slow Positron Beam. <i>Japanese Journal of Applied Physics</i> , <b>1989</b> , 28, 1293-1297	1.4	48	
353	Native cation vacancies in Si-doped AlGaN studied by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 013512	2.5	45	
352	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> , <b>2010</b> , 207, 1011-	1023	45	
351	A study of agglomeration and release processes of helium implanted in nickel by a variable energy positron beam. <i>Journal of Nuclear Materials</i> , <b>1985</b> , 133-134, 463-467	3.3	45	
350	Free and bound exciton fine structures in AlN epilayers grown by low-pressure metalorganic vapor phase epitaxy. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 023529	2.5	44	
349	Transition and relaxation processes of polyethylene, polypropylene, and polystyrene studied by positron annihilation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1997</b> , 35, 1601-1609	2.6	43	
348	Effect of La doping on the lattice defects and photoluminescence properties of CuO. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 709, 496-504	5.7	42	
347	Investigation of defect related photoluminescence property of multicolour emitting Gd2O3:Dy3+ phosphor. <i>RSC Advances</i> , <b>2014</b> , 4, 34257	3.7	41	
346	Carrier Trapping by Vacancy-Type Defects in Mg-Implanted GaN Studied Using Monoenergetic Positron Beams. <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 255, 1700521	1.3	39	
345	Point defects in group-III nitride semiconductors studied by positron annihilation. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 3075-3079	1.6	39	
344	Rapid three-dimensional imaging of defect distributions using a high-intensity positron microbeam. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 194104	3.4	38	
343	Improvement of crystal quality of GaInNAs films grown by atomic hydrogen-assisted RF-MBE. <i>Journal of Crystal Growth</i> , <b>2005</b> , 278, 553-557	1.6	38	
342	Synthesis, defect characterization and photocatalytic degradation efficiency of Tb doped CuO nanoparticles. <i>Advanced Powder Technology</i> , <b>2017</b> , 28, 3026-3038	4.6	37	
341	Low temperature buffer growth for modulation doped SiGe/Ge/SiGe heterostructures with high hole mobility. <i>Thin Solid Films</i> , <b>2000</b> , 369, 320-323	2.2	35	

340	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> , <b>2018</b> , 112, 211901	3.4	35
339	Recent Progress in Gas Barrier Thin Film Coatings on PET Bottles in Food and Beverage Applications. <i>Coatings</i> , <b>2015</b> , 5, 987-1001	2.9	34
338	Annealing properties of vacancy-type defects in ion-implanted GaN studied by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 084505	2.5	34
337	Defect Production in Phosphorus Ion-Implanted SiO2(43 nm)/Si Studied by a Variable-Energy Positron Beam. <i>Japanese Journal of Applied Physics</i> , <b>1991</b> , 30, 201-206	1.4	34
336	Positronium formation in SiO2 films grown on Si substrates studied by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 3822-3828	2.5	33
335	Annealing Properties of Defects inB+- andF+-Implanted Si Studied Using Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>1997</b> , 36, 2571-2580	1.4	32
334	Metal ion binding properties of novel wool powders. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 115, 164	2 <u>2</u> 1650	) 31
333	Nanoporous structure of methyl-silsesquioxane films using monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 2498-2503	2.5	31
332	Vacancy-type defects in BaTiO3/SrTiO3 structures probed by monoenergetic positron beams. Journal of Applied Physics, <b>2002</b> , 91, 5307-5312	2.5	31
331	AlN metallemiconductor field-effect transistors using Si-ion implantation. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 04FR11	1.4	30
330	Defect-Resistant Radiative Performance of m-Plane Immiscible Al In N Epitaxial Nanostructures for Deep-Ultraviolet and Visible Polarized Light Emitters. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603644	24	30
329	Reduced defect densities in the ZnO epilayer grown on Si substrates by laser-assisted molecular-beam epitaxy using a ZnS epitaxial buffer layer. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5586-5588	3.4	30
328	Positron annihilation in electron irradiated Cz-Si. <i>Hyperfine Interactions</i> , <b>1993</b> , 79, 615-619	0.8	30
327	Vacancy-type defects in Si+ -implanted GaAs and its effects on electrical activation by rapid thermal annealing. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 6153-6158	2.5	30
326	Effect of Free-Volume Holes on Dynamic Mechanical Properties of Epoxy Resins for Carbon-Fiber-Reinforced Polymers. <i>Macromolecules</i> , <b>2017</b> , 50, 3933-3942	5.5	29
325	Leaching properties of chromate-containing epoxy films using radiotracers, PALS and SEM. <i>Progress in Organic Coatings</i> , <b>2014</b> , 77, 257-267	4.8	29
324	Defect characterization in Mg-doped GaN studied using a monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 014508	2.5	28
323	Characterization of Grown-in Dislocations in Benzophenone Single Crystals by X-Ray Topography. Japanese Journal of Applied Physics, 1992, 31, 2202-2205	1.4	28

### (1996-2013)

322	Formation of low resistance ohmic contacts in GaN-based high electron mobility transistors with BCl3 surface plasma treatment. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 083508	3.4	27	
321	First-principles calculation of positron states and annihilation parameters for group-III nitrides. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 505, 012010	0.3	26	
320	Major impacts of point defects and impurities on the carrier recombination dynamics in AlN. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 201904	3.4	26	
319	Epitaxial growth of BaTiO3/SrTiO3 structures on SrTiO3 substrate with automatic feeding of oxygen from the substrate. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 4625-4630	2.5	26	
318	Room-temperature photoluminescence lifetime for the near-band-edge emission of (000 1 🛭) p-type GaN fabricated by sequential ion-implantation of Mg and H. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 191901	3.4	26	
317	Behavior of oxygen vacancies in BiFeO3/SrRuO3/SrTiO3(100) and DyScO3(100) heterostructures. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 132905	3.4	25	
316	Defects Introduced by MeV-Energy Ion Implantation into Si Probed by a Monoenergetic Positron Beam. <i>Japanese Journal of Applied Physics</i> , <b>1991</b> , 30, 1597-1603	1.4	25	
315	Metal/oxide/semiconductor interface investigated by monoenergetic positrons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1988</b> , 133, 82-84	2.3	25	
314	Variable-energy positron-beam studies of SiO2/Si irradiated by ionizing radiation. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 473-475	3.4	25	
313	Simple way of finding Ba to Si deposition rate ratios for high photoresponsivity in BaSi2 films by Raman spectroscopy. <i>Applied Physics Express</i> , <b>2019</b> , 12, 055506	2.4	24	
312	Identification of extremely radiative nature of AlN by time-resolved photoluminescence. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 061906	3.4	24	
311	Vacancy-type defects in Er-doped GaN studied by a monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 104505	2.5	24	
310	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. <i>Philosophical Magazine</i> , <b>2007</b> , 87, 2019-2039	1.6	24	
309	Positron annihilation in SiO2Bi studied by a pulsed slow positron beam. <i>Applied Surface Science</i> , <b>2002</b> , 194, 89-96	6.7	24	
308	Vacancy-Type Defects in As+-Implanted SiO2(43 nm)/Si Proved with Slow Positrons. <i>Japanese Journal of Applied Physics</i> , <b>1990</b> , 29, 1867-1872	1.4	24	
307	Vacancy-type defects in Mg-doped InN probed by means of positron annihilation. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 054507	2.5	23	
306	Collateral evidence for an excellent radiative performance of AlxGa1NN alloy films of high AlN mole fractions. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 051902	3.4	23	
305	Effects of Recoil-Implanted Oxygen on Depth Profiles of Defects and Annealing Processes inP+-Implanted Si Studied Using Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>1996</b> , 35, 2000-2007	1.4	23	

Impact of Al in Cu alloy interconnects on electro and stress migration reliabilities. <i>Microelectronic Engineering</i> , <b>2008</b> , 85, 2137-2141	2.5	23
Characterization of vacancy-type defects and phosphorus donors introduced in 6H-SiC by ion implantation. <i>Applied Physics A: Materials Science and Processing</i> , <b>1998</b> , 67, 407-412	2.6	22
Hydrogen-terminated defects in ion-implanted silicon probed by monoenergetic positron beams. Journal of Applied Physics, <b>2003</b> , 93, 3228-3233	2.5	22
Investigation of Positron Moderator Materials for Electron-Linac-Based Slow Positron Beamlines. Japanese Journal of Applied Physics, 1998, 37, 4636-4643	1.4	22
Depth profile of vacancy-type defects in B+-implanted Si with a SiO2 overlayer by a variable-energy positron beam. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 25-27	3.4	22
Excitonic emission dynamics in homoepitaxial AlN films studied using polarized and spatio-time-resolved cathodoluminescence measurements. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 142103	3.4	21
In-situ characterization of free-volume holes in polymer thin films under controlled humidity conditions with an atmospheric positron probe microanalyzer. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 01410	23.4	21
Characterization of Separation-by-Implanted-Oxygen Wafers with Monoenergetic Positron Beams. Japanese Journal of Applied Physics, <b>1993</b> , 32, 3682-3686	1.4	21
Characterization of Diamond Films Synthesized on Si from a Gas Phase in Microwave Plasma by Slow Positrons. <i>Japanese Journal of Applied Physics</i> , <b>1990</b> , 29, 555-559	1.4	21
Enhanced photo/electroluminescence properties of Eu-doped GaN through optimization of the growth temperature and Eu related defect environment. <i>APL Materials</i> , <b>2016</b> , 4, 056103	5.7	21
Positron Annihilation Spectroscopy on Nitride-Based Semiconductors. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 08JJ02	1.4	20
Thermal stability of semi-insulating property of Fe-doped GaN bulk films studied by photoluminescence and monoenergetic positron annihilation techniques. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 083542	2.5	20
Vacancy-type defects in InxGa1⊠N alloys probed using a monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 014507	2.5	20
Defects introduced into electroplated Cu films during room-temperature recrystallization probed by a monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 043504	2.5	20
Characterization of low temperature grown Si layer for SiGe pseudo-substrates by positron annihilation spectroscopy. <i>Journal of Crystal Growth</i> , <b>2001</b> , 227-228, 761-765	1.6	20
Positron Annihilation in Proton Irradiated Czochralski-Grown Si. <i>Japanese Journal of Applied Physics</i> , <b>1994</b> , 33, 1-5	1.4	20
Low-resistivitym-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. <i>Applied Physics Express</i> , <b>2015</b> , 8, 095501	2.4	19
Open spaces in the subsurface region of polyethylene probed by monoenergetic positron beams. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 2597-2605	2.6	19
	Characterization of vacancy-type defects and phosphorus donors introduced in 6H-SiC by ion implantation. <i>Applied Physics A: Materials Science and Processing,</i> 1998, 67, 407-412  Hydrogen-terminated defects in ion-implanted silicon probed by monoenergetic positron beams. <i>Journal of Applied Physics,</i> 2003, 93, 3228-3233  Investigation of Positron Moderator Materials for Electron-Linac-Based Slow Positron Beamlines. <i>Japanese Journal of Applied Physics,</i> 1998, 37, 4636-4643  Depth profile of vacancy-type defects in B+-implanted Si with a SiO2 overlayer by a variable-energy positron beam. <i>Applied Physics Letters,</i> 1988, 53, 25-27  Excitonic emission dynamics in homoepitaxial AIN films studied using polarized and spatio-time-resolved cathodoluminescence measurements. <i>Applied Physics Letters,</i> 2013, 103, 142103  In-situ characterization of free-volume holes in polymer thin films under controlled humidity conditions with an atmospheric positron probe microanalyzer. <i>Applied Physics Letters,</i> 2012, 101, 01410  Characterization of Separation-by-Implanted-Oxygen Wafers with Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics,</i> 1993, 32, 3682-3686  Characterization of Diamond Films Synthesized on Si from a Gas Phase in Microwave Plasma by Slow Positrons. <i>Japanese Journal of Applied Physics,</i> 1990, 29, 555-559  Enhanced photo/electroluminescence properties of Eu-doped GaN through optimization of the growth temperature and Eu related defect environment. <i>APL Materials,</i> 2016, 4, 056103  Positron Annihilation Spectroscopy on Nitride-Based Semiconductors. <i>Japanese Journal of Applied Physics,</i> 2013, 52, 083542  Vacancy-type defects in InxGa18N alloys probed using a monoenergetic positron beam. <i>Journal of Applied Physics,</i> 2003, 105, 083542  Vacancy-type defects in InxGa18N alloys probed using a monoenergetic positron beam. <i>Journal of Applied Physics,</i> 2005, 98, 043504  Characterization of low temperature grown Si layer for SiGe pseudo-substrates by positron annihilation spectroscopy. <i>Journal of Crystal </i>	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  2.6  Hydrogen-terminated defects in ion-implanted silicon probed by monoenergetic positron beams. Journal of Applied Physics, 2003, 93, 3228-3233  Investigation of Positron Moderator Materials for Electron-Linac-Based Slow Positron Beamlines. Japaneses Journal of Applied Physics, 1998, 37, 4636-4643  Depth profile of vacancy-type defects in B+-implanted Si with a SiO2 overlayer by a variable-energy positron beam. Applied Physics, 1998, 53, 25-27  Excitonic emission dynamics in homoepitaxial AIN films studied using polarized and spatio-time-resolved cathodoluminescence measurements. Applied Physics Letters, 2013, 103, 142103  In-situ characterization of free-volume holes in polymer thin films under controlled humidity conditions with an atmospheric positron probe microanalyzer. Applied Physics Letters, 2012, 101, 014102 <sup>34</sup> Characterization of Separation-by-Implanted-Oxygen Wafers with Monoenergetic Positron Beams. Japanese Journal of Applied Physics, 1993, 32, 3682-3686  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  Enhanced photo/electroluminescence properties of Eu-doped GaN through optimization of the growth temperature and Eu related defect environment. APL Materials, 2016, 4, 056103  Positron Annihilation Spectroscopy on Nitride-Based Semiconductors. Japanese Journal of Applied Physics, 2013, 52, 08JJ02  Thermal stability of semi-insulating property of Fe-doped GaN bulk films studied by photoluminescence and monoenergetic positron annihilation techniques. Journal of Applied Physics, 2013, 52, 08JJ02  Thermal stability of semi-insulating property of Fe-doped GaN bulk films studied by photoluminescence and monoenergetic positron annihilation techniques. Journal of Applied Physics, 2005, 98, 043504  Vacancy-type defect

### (2011-2004)

286	Vacancy-type defects in electroplated Cu films probed by using a monoenergetic positron beam. Journal of Applied Physics, <b>2004</b> , 95, 913-918	2.5	19	
285	Study of various types of diamonds by measurements of double crystal x-ray diffraction and positron annihilation. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 1510-1513	2.5	19	
284	Study of relaxation processes in polyethylene and polystyrene by positron annihilation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1996</b> , 34, 2145-2151	2.6	19	
283	Influence of Si wafer thinning processes on (sub)surface defects. <i>Applied Surface Science</i> , <b>2017</b> , 404, 82	2-8 <b>7</b> .7	18	
282	Optically active vacancies in GaN grown on Si substrates probed using a monoenergetic positron beam. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 082110	3.4	18	
281	Impact of back-grinding-induced damage on Si wafer thinning for three-dimensional integration.  Japanese Journal of Applied Physics, <b>2014</b> , 53, 05GE04	1.4	18	
280	A positron annihilation lifetime measurement system with an intense positron microbeam. <i>Radiation Physics and Chemistry</i> , <b>2009</b> , 78, 1096-1098	2.5	18	
279	Characterization of HfSiON gate dielectrics using monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 054507	2.5	18	
278	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> , <b>2004</b> , 201, 2841-2845		18	
277	Annealing properties of defects during Si-on-insulator fabrication by low-dose oxygen implantation studied by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 1659-1665	2.5	18	
276	Free volumes in polystyrene probed by positron annihilation. <i>Journal of Polymer Science, Part B: Polymer Physics,</i> <b>1996</b> , 34, 1189-1195	2.6	18	
275	Defects in electron irradiated vitreous SiO2probed by positron annihilation. <i>Journal of Physics Condensed Matter</i> , <b>1994</b> , 6, 8669-8677	1.8	18	
274	Vacancies and electron trapping centers in acidic ammonothermal GaN probed by a monoenergetic positron beam. <i>Journal of Crystal Growth</i> , <b>2016</b> , 448, 117-121	1.6	17	
273	Improvement of hydrogen absorption rate of Pd by ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 206, 224-227	1.2	17	
272	Defects in Eu- and Tb-doped GaN probed using a monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 5181-5184	2.5	17	
271	Free volumes in liquid-crystalline main-chain polymer probed by positron annihilation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1995</b> , 33, 891-897	2.6	17	
270	SiO2 films deposited on Si substrates studied by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 216-222	2.5	17	
269	Impact of Cu/III ratio on the near-surface defects in polycrystalline CuGaSe2 thin films. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 112105	3.4	16	

268	Vacancy-Boron Complexes in Plasma Immersion Ion-Implanted Si Probed by a Monoenergetic Positron Beam. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 051301	1.4	16
267	Impact of Point Defects on the Luminescence Properties of (Al,Ga)N. <i>Materials Science Forum</i> , <b>2008</b> , 590, 233-248	0.4	16
266	Annealing properties of open volumes in HfSiOx and HfAlOx gate dielectrics studied using monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 023506	2.5	16
265	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> , <b>2001</b> , 40, 5036-5040	1.4	16
264	Positron Annihilation in Vitreous Silica Glasses. <i>Japanese Journal of Applied Physics</i> , <b>1993</b> , 32, 2687-2691	1.4	16
263	Characterization of Diamond Films by Means of a Pulsed Positron Beam. <i>Japanese Journal of Applied Physics</i> , <b>1992</b> , 31, 2237-2240	1.4	16
262	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> , <b>2019</b> , 256, 1900104	1.3	15
261	Surface sealing using self-assembled monolayers and its effect on metal diffusion in porous low- k dielectrics studied using monoenergetic positron beams. <i>Applied Surface Science</i> , <b>2016</b> , 368, 272-276	6.7	15
260	Using X-ray tomography, PALS and Raman spectroscopy for characterization of inhibitors in epoxy coatings. <i>Progress in Organic Coatings</i> , <b>2012</b> , 74, 726-733	4.8	15
259	Annealing Properties of Defects in Ion-Implanted 3C-SiC Studied Using Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>1997</b> , 36, 6650-6660	1.4	15
258	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> , <b>1995</b> , 33, 1183-1190	2.6	15
257	Vacancy-Type Defects in Ion-Implanted Diamonds Probed by Monoenergetic Positron Beams. Japanese Journal of Applied Physics, <b>1995</b> , 34, 1772-1777	1.4	15
256	Positron Study of Vacancy-Type Defects Induced by Heavy Doping into MBE-Grown GaAs. <i>Japanese Journal of Applied Physics</i> , <b>1990</b> , 29, L346-L348	1.4	15
255	Defects Induced by Wafer Processing and Thermal Treatment in InP Probed with Monoenergetic Positrons. <i>Japanese Journal of Applied Physics</i> , <b>1990</b> , 29, 909-912	1.4	15
254	Room temperature photoluminescence lifetime for the near-band-edge emission of epitaxial and ion-implanted GaN on GaN structures. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, SC0802	1.4	14
253	Impact of Se flux on the defect formation in polycrystalline Cu(In,Ga)Se2 thin films grown by three stage evaporation process. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 064907	2.5	14
252	Slow Positron Beam Apparatus for Surface and Subsurface Analysis of Samples in Air. <i>Applied Physics Express</i> , <b>2011</b> , 4, 066701	2.4	14
251	Defects in Ion-Implanted 3CBiC Probed by a Monoenergetic Positron Beam. <i>Japanese Journal of Applied Physics</i> , <b>1996</b> , 35, 5986-5990	1.4	14

### (2017-2005)

250	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> , <b>2005</b> , 97, 043514	2.5	14
249	Crystallization of an amorphous layer in P+-implanted 6H-SiC studied by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 4119-4125	2.5	14
248	Positron annihilation in silicon in thermal equilibrium at high temperature. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 719-728	1.8	14
247	Depth profiles on ion implantation induced vacancy-type defects in GaAs and Si observed by slow positron. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 1302-1304	3.4	14
246	Probing the effect of point defects on the leakage blocking capability of Al0.1Ga0.9N/Si structures using a monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 215702	2.5	14
245	Valence band edge tail states and band gap defect levels of GaN bulk and InxGa1NN films detected by hard X-ray photoemission and photothermal deflection spectroscopy. <i>Applied Physics Express</i> , <b>2018</b> , 11, 021002	2.4	13
244	Vacancy-type defects in Al2O3/GaN structure probed by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 155302	2.5	13
243	Characterization of residual defects in cubic silicon carbide subjected to hot-implantation and subsequent annealing. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 5339-5347	2.5	13
242	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> , <b>2007</b> , 301-302, 579-582	1.6	13
241	Homoepitaxial Growth of SrTiO3 in an Ultrahigh Vacuum with Automatic Feeding of Oxygen from the Substrate at Temperatures as Low as 370°C. <i>Japanese Journal of Applied Physics</i> , <b>2002</b> , 41, L269-L27°	1 <sup>1.4</sup>	13
240	Molecular motion and relaxation below glass transition temperature in poly (methyl methacrylate) studied by positron annihilation. <i>Radiation Physics and Chemistry</i> , <b>2015</b> , 108, 81-86	2.5	12
239	Positron annihilation studies of defects in 3CSiC hot-implanted with nitrogen and aluminum ions. <i>Applied Physics A: Materials Science and Processing</i> , <b>1997</b> , 65, 315-323	2.6	12
238	Local Bonding Structure of High-Stress Silicon Nitride Film Modified by UV Curing for Strained Silicon Technology beyond 45 nm Node SoC Devices. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 1984	-11 <b>9</b> 88	12
237	Defects in CeO2/SrTiO3 fabricated by automatic feeding epitaxy probed using positron annihilation. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 5193	2.5	12
236	Annihilation of positronium in alpha -SiO2 investigated by combined angular correlation and lifetime measurements. <i>Physical Review B</i> , <b>1996</b> , 54, 15051-15055	3.3	12
235	Release processes of He implanted in Cu and Ni studied by a monoenergetic positron beam. <i>Journal of Nuclear Materials</i> , <b>1991</b> , 184, 191-196	3.3	12
234	(Invited) Point Defect Characterization of Group-III Nitrides by Using Monoenergetic Positron Beams. <i>ECS Transactions</i> , <b>2014</b> , 61, 19-30	1	11
233	Carrier activation in Mg implanted GaN by short wavelength Nd:YAG laser thermal annealing.  Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700225	1.6	11

232	Vacancy-type defects in InxGa1⊠N grown on GaN templates probed using monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 184504	2.5	11
231	Fluorine-Related Defects inBF2+-Implanted Si Probed by Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>1997</b> , 36, 969-974	1.4	11
230	Development of Positron Microbeam in AIST. <i>Materials Science Forum</i> , <b>2008</b> , 607, 238-242	0.4	11
229	Investigation of Vacancy-Type Defects in P+-Implanted 6H-SiC Using Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>1998</b> , 37, 2422-2429	1.4	11
228	2016,		11
227	Behavior of copper contamination on backside damage for ultra-thin silicon three dimensional stacking structure. <i>Microelectronic Engineering</i> , <b>2017</b> , 167, 23-31	2.5	10
226	Investigation of Al2O3/GaN interface properties by sub-bandgap photo-assisted capacitance-voltage technique. <i>AIP Advances</i> , <b>2019</b> , 9, 085319	1.5	10
225	Electron capture by vacancy-type defects in carbon-doped GaN studied using monoenergetic positron beams. <i>Thin Solid Films</i> , <b>2017</b> , 639, 78-83	2.2	10
224	Vacancy-type defects in bulk GaN grown by the Na-flux method probed using positron annihilation. Journal of Crystal Growth, <b>2017</b> , 475, 261-265	1.6	10
223	Vacancy-type defects induced by grinding of Si wafers studied by monoenergetic positron beams. Journal of Applied Physics, <b>2014</b> , 116, 134501	2.5	10
222	Vacancy clustering and its dissociation process in electroless deposited copper films studied by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 104506	2.5	10
221	Vacancy-type defects and electronic structure of perovskite-oxide SrTiO3 from positron annihilation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 300-305	1.6	10
220	Oxygen-related defects and their annealing behavior in low-dose Separation-by-IMplanted OXygen (SIMOX) wafers studied by slow positron beams. <i>Applied Surface Science</i> , <b>2002</b> , 194, 112-115	6.7	10
219	Effects of the Fermi Level on Defects in Be+-Implanted GaAs Studied by a Monoenergetic Positron Beam. <i>Japanese Journal of Applied Physics</i> , <b>1991</b> , 30, L2002-L2005	1.4	10
218	Annealing behaviors of vacancy-type defects in AlN deposited by radio-frequency sputtering and metalorganic vapor phase epitaxy studied using monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 085704	2.5	10
217	Characterization of the distribution of defects introduced by plasma exposure in Si substrate. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, 011304	2.9	9
216	Computational study of positron annihilation parameters for cation mono-vacancies and vacancy complexes in nitride semiconductor alloys. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 475401	1.8	9
215	Enhancement of the gas barrier property of polypropylene by introducing plasma-treated silane coating with SiOx-modified top-surface. <i>Surface and Coatings Technology</i> , <b>2015</b> , 284, 377-383	4.4	9

214	Electromigration extendibility of Cu(Mn) alloy-seed interconnects, and understanding the fundamentals <b>2012</b> ,		9	
213	Photoluminescence and positron annihilation studies on Mg-doped nitrogen-polarity semipolar (101[]1[]) GaN heteroepitaxial layers grown by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 091913	3.4	9	
212	Characterization of Low-k/Cu Damascene Structures Using Monoenergetic Positron Beams. Japanese Journal of Applied Physics, <b>2009</b> , 48, 120222	1.4	9	
211	Physical understanding of the reliability improvement of dual high-k CMOSFETs with the fifth element incorporation into HfSiON gate dielectrics <b>2008</b> ,		9	
210	Impact of nitridation on open volumes in HfSiOx studied using monoenergetic positron beams. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 171912	3.4	9	
209	Introduction of defects into HfO2 gate dielectrics by metal-gate deposition studied using x-ray photoelectron spectroscopy and positron annihilation. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 064501	2.5	9	
208	Defects in silicon-on-insulator wafers and their hydrogen interaction studied by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 6488	2.5	9	
207	Open spaces and relaxation processes in the subsurface region of polypropylene probed by monoenergetic positron beams. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2000</b> , 38, 101-107	2.6	9	
206	Annealing behaviours of defects in electron-irradiated diamond probed by positron annihilation. Journal of Physics Condensed Matter, <b>1999</b> , 11, 4925-4934	1.8	9	
205	Study of Point Defects in Bulk ZnSe Grown by Nonstoichiometric Annealing. <i>Japanese Journal of Applied Physics</i> , <b>1993</b> , 32, 736-740	1.4	9	
204	Positron annihilation in a metal-oxide semiconductor studied by using a pulsed monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>1993</b> , 74, 7251-7256	2.5	9	
203	Effects of ultra-high-pressure annealing on characteristics of vacancies in Mg-implanted GaN studied using a monoenergetic positron beam. <i>Scientific Reports</i> , <b>2020</b> , 10, 17349	4.9	9	
202	Controlling the carrier lifetime of nearly threading-dislocation-free ZnO homoepitaxial films by 3d transition-metal doping. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 021904	3.4	9	
201	Vacancy behavior in Cu(In1ta )Se2 layers grown by a three-stage coevaporation process probed by monoenergetic positron beams. <i>Thin Solid Films</i> , <b>2016</b> , 603, 418-423	2.2	9	
200	Effect of ion energies on the film properties of titanium dioxides synthesized via plasma enhanced atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2018</b> , 36, 021515	2.9	8	
199	Free Volume Profiles at PolymerBolid Interfaces Probed by Focused Slow Positron Beam. <i>Macromolecules</i> , <b>2015</b> , 48, 1493-1498	5.5	8	
198	Vacancy-type defects introduced by plastic deformation of GaN studied using monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 084506	2.5	8	
197	Investigating the binding properties of porous drug delivery systems using nuclear sensors (radiotracers) and positron annihilation lifetime spectroscopypredicting conditions for optimum performance. <i>Dalton Transactions</i> , <b>2011</b> , 40, 6278-88	4.3	8	

196	Electronic structure and Fermi surface of the weak ferromagnet Ni3Al. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	8
195	Epitaxial DyScO3films as passivation layers suppress the diffusion of oxygen vacancies in SrTiO3. Journal Physics D: Applied Physics, <b>2010</b> , 43, 025301	3	8
194	Free volume change of elongated polyethylene films studied using a positron probe microanalyzer. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 203108	3.4	8
193	Correlation between the violet luminescence intensity and defect density in AlN epilayers grown by ammonia-source molecular beam epitaxy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 2129-2132		8
192	Impact of Residual Impurities on Annealing Properties of Vacancies in Electroplated Cu Studied Using Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, L483-L485	1.4	8
191	Impact of High Temperature Annealing on Traps in Physical-Vapor-Deposited-TiN/SiO2/Si Analyzed by Positron Annihilation. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, L1219-L1221	1.4	8
190	Suppression of oxygen diffusion by thin Al2O3 films grown on SrTiO3 studied using a monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 033508	2.5	8
189	Oxygen-related defects in O+-implanted 6HBiC studied by a monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 5392-5398	2.5	8
188	A positron age-momentum correlation spectrometer for the study of open spaces in amorphous polymers. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1995</b> , 103, 511-516	1.2	8
187	Positron trapping by defects in vitreous silica at low temperature. <i>Journal of Physics Condensed Matter</i> , <b>1995</b> , 7, 5139-5149	1.8	8
186	Oxygen Clusters in Quenched Czochralski-Si Studied by Infrared Spectroscopy and Positron Annihilation. <i>Japanese Journal of Applied Physics</i> , <b>1994</b> , 33, 1723-1727	1.4	8
185	Defects Introduced by Ar Plasma Exposure in GaAs Probed by Monoenergetic Positron Beam. Japanese Journal of Applied Physics, <b>1994</b> , 33, L1374-L1377	1.4	8
184	Study of near surface defects in He-implanted stainless steels by monoenergetic positron beam. Journal of Nuclear Materials, <b>1990</b> , 173, 307-312	3.3	8
183	Vacancy-type defects in Mg-doped GaN grown by ammonia-based molecular beam epitaxy probed using a monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 245702	2.5	8
182	Impact of defects on the electrical properties of pl diodes formed by implanting Mg and H ions into N-polar GaN. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 125102	2.5	7
181	Structural disorder and in-gap states of Mg-implanted GaN films evaluated by photothermal deflection spectroscopy. <i>Journal of Crystal Growth</i> , <b>2019</b> , 511, 15-18	1.6	7
180	Free volumes introduced by fractures of CFRP probed using positron annihilation. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2019</b> , 122, 54-58	8.4	7
179	Investigation on photoluminescence, electrical and positron lifetime of Eu3+ activated Gd2O3 phosphors. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 166, 73-81	4.4	7

## (2016-2020)

178	Effect of free-volume holes on static mechanical properties of epoxy resins studied by positron annihilation and PVT experiments. <i>Polymer</i> , <b>2020</b> , 190, 122225	3.9	7	
177	Magnetic properties of metastable bcc phase in Fe64Ni36 alloy synthesized through polyol process. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	7	
176	Annealing behaviors of vacancy-type defects near interfaces between metal contacts and GaN probed using a monoenergetic positron beam. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 052108	3.4	7	
175	Point defects introduced by InN alloying into InxGa1NN probed using a monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 123502	2.5	7	
174	Imaging of the distribution of average positron lifetimes by using a positron probe microanalyzer. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 262, 012044	0.3	7	
173	Positron Annihilation in Germanium in Thermal Equilibrium at High Temperature. <i>Japanese Journal of Applied Physics</i> , <b>1996</b> , 35, 4599-4605	1.4	7	
172	A Study of Native Defects in Ag-doped HgCdTe by Positron Annihilation. <i>Japanese Journal of Applied Physics</i> , <b>1997</b> , 36, 6661-6667	1.4	7	
171	Evidence for the formation of n+-GaAs layer in Pd/Ge ohmic contact to n-type GaAs. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 5460-5464	2.5	7	
170	Vacancy-impurity complexes in polycrystalline Si used as gate electrodes of HfSiON-based metal-oxide-semiconductors probed using monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 034509	2.5	7	
169	Characterization of Metal/High-kStructures Using Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 3214-3218	1.4	7	
168	Characterization of Hf0.3Al0.7OxFabricated by Atomic-Layer-Deposition Technique Using Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>2004</b> , 43, 7848-7852	1.4	7	
167	Spin-dependent momentum density distribution and Fermi surface of Ho via 2D-ACAR measurements. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, 856-863	1.3	7	
166	Positron annihilation study of free volume holes in polymers and polymer blends. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2003</b> , 255, 291-294	1.5	7	
165	Formation of Oxygen-Related Defects Enhanced by Fluorine in \$bf BF_{2}^{+}\$-Implanted Si Studied by a Monoenergetic Positron Beam. <i>Japanese Journal of Applied Physics</i> , <b>1995</b> , 34, 6293-6297	1.4	7	
164	Depth profiles of vacancy-type defect in Si+-implanted GaAs resulting from rapid thermal annealing. <i>Journal of Applied Physics</i> , <b>1989</b> , 65, 396-397	2.5	7	
163	Positron Annihilation Studies on Chemically Synthesized FeCo Alloy. <i>Scientific Reports</i> , <b>2018</b> , 8, 9764	4.9	7	
162	Computational studies of positron states and annihilation parameters in semiconductors [] vacancy-type defects in group-III nitrides [] <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 674, 012020	0.3	7	
161	Vacancy defects and defect clusters in alkali metal ion-doped MgO nanocrystallites studied by positron annihilation and photoluminescence spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	7	

160	Effect of dopant concentration and annealing of Yttrium doped CuO nanocrystallites studied by positron annihilation spectroscopy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 788, 549-558	5.7	6
159	Ion energy control and its applicability to plasma enhanced atomic layer deposition for synthesizing titanium dioxide films. <i>Thin Solid Films</i> , <b>2018</b> , 660, 865-870	2.2	6
158	Nanopores formation and shape evolution in Ge during intense ionizing irradiation. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 225, 323-330	5.3	6
157	Time-resolved luminescence studies on AlN and high AlN mole fraction AlGaN alloys. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2013</b> , 10, 501-506		6
156	Defects in Electroplated Cu and Their Impact on Stress Migration Reliability Studied using Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 1938-1941	1.4	6
155	Characterizing Metal-Oxide Semiconductor Structures Consisting of HfSiOx as Gate Dielectrics using Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>2004</b> , 43, 1254-1259	1.4	6
154	Reduced Defect Densities in Cubic GaN Epilayers with AlGaN/GaN Superlattice Underlayers Grown on (001) GaAs Substrates by Metalorganic Vapor Phase Epitaxy. <i>Japanese Journal of Applied Physics</i> , <b>2004</b> , 43, 958-965	1.4	6
153	Reduction of point defect density in cubic GaN epilayers on (001) GaAs substrates using AlGaN/GaN superlattice underlayers. <i>Journal of Crystal Growth</i> , <b>2004</b> , 272, 481-488	1.6	6
152	Characterization of diamond single crystals by means of double-crystal X-ray diffraction and positron annihilation. <i>Applied Physics A: Materials Science and Processing</i> , <b>1995</b> , 61, 331-333	2.6	6
151	Defects inSiO2/SiStructures Probed by Using a Monoenergetic Positron Beam. <i>Japanese Journal of Applied Physics</i> , <b>1994</b> , 33, 3330-3334	1.4	6
150	Variation of Free Volumes in Polyvynil Alcohol Studied by Positron Annihilation. <i>Materials Science Forum</i> , <b>1992</b> , 105-110, 1721-1724	0.4	6
149	The depth profiles of ion implantation induced vacancy-type defects probed by a monoenergetic positron beam. <i>Radiation Effects and Defects in Solids</i> , <b>1992</b> , 124, 31-41	0.9	6
148	The study of native defects in as-grown GaAs by positron annihilation. <i>Hyperfine Interactions</i> , <b>1993</b> , 79, 719-723	0.8	6
147	Detection of helium implanted into nickel by slow positrons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1988</b> , 129, 249-252	2.3	6
146	Polarity-dependence of the defect formation in c-axis oriented ZnO by the irradiation of an 8 MeV proton beam. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 161562	2.5	5
145	Er3+ induced point defects in ZnO and impact of Li+/Na+/K+ on the vacancy defects in ZnO:Er studied by positron annihilation spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	5
144	Residual defects in low-dose arsenic-implanted silicon after high-temperature annealing. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 321, 54-58	1.2	5
143	Vacancy clusters introduced by CF4-based plasma treatment in GaN probed with a monoenergetic positron beam. <i>Applied Physics Express</i> , <b>2014</b> , 7, 121001	2.4	5

### (2021-2014)

142	Impact of the difference in power frequency on diamond-like carbon thin film coating over 3-dimensional objects. <i>Thin Solid Films</i> , <b>2014</b> , 564, 45-50	2.2	5
141	Synthesis of silica nanoparticles using oil-in-water emulsion and the porosity analysis. <i>Journal of Sol-Gel Science and Technology</i> , <b>2012</b> , 64, 309-314	2.3	5
140	Material design of plasma-enhanced chemical vapour deposition SiCH films for low- cap layers in the further scaling of ultra-large-scale integrated devices-Cu interconnects. <i>Science and Technology of Advanced Materials</i> , <b>2013</b> , 14, 055005	7.1	5
139	Characterization of Porous Structures in Advanced Low-kFilms with Thin TaN Layers Using Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 106501	1.4	5
138	Effect of V/III flux ratio on luminescence properties and defect formation of Er-doped GaN. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 051907	3.4	5
137	Positron annihilation studies on the behaviour of vacancies in LaAlO3/SrTiO3heterostructures. Journal Physics D: Applied Physics, <b>2012</b> , 45, 445305	3	5
136	Vacancy-fluorine complexes and their impact on the properties of metal-oxide transistors with high-k gate dielectrics studied using monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 054511	2.5	5
135	Annealing of a Vacancy-Type Defect and Diffusion of Implanted Boron in 6H-SiC. <i>Materials Science Forum</i> , <b>2003</b> , 433-436, 633-636	0.4	5
134	Vacancy-type defects in strained-Si layers deposited on SiGeBi structures probed by using monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 023532	2.5	5
133	Positron annihilation study of vacancy-type defects in silicon carbide co-implanted with aluminum and carbon ions. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 308-310, 652-655	2.8	5
132	Defects in synthesized and natural diamond probed by positron annihilation. <i>Journal of Physics Condensed Matter</i> , <b>1999</b> , 11, 4109-4122	1.8	5
131	Positron annihilation in SiO2/Si structure at low temperature. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 3269	- <b>3</b> 2 <del>,</del> 73	5
130	Vacancy-Type Defects in Be-Implanted InP. Japanese Journal of Applied Physics, 1994, 33, 33-36	1.4	5
129	Defects in Czochralski-Grown Silicon Crystals Investigated by Positron Annihilation. <i>Japanese Journal of Applied Physics</i> , <b>1994</b> , 33, 5585-5589	1.4	5
128	Defects in electron irradiated amorphous SiO2 probed by positron annihilation. <i>Hyperfine Interactions</i> , <b>1994</b> , 84, 225-230	0.8	5
127	Application of positron age-momentum correlation measurement to the study of defects in electron irradiated synthetic silica glass. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 4553-4559	2.5	5
126	Nucleation of Oxygen Precipitates in a Quenched Czochralski Silicon Crystal. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 262, 69		5
125	Improved minority carrier lifetime in p-type GaN segments prepared by vacancy-guided redistribution of Mg. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 182106	3.4	5

124	Low-temperature annealing behavior of defects in Mg-ion-implanted GaN studied using MOS diodes and monoenergetic positron beam. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, 016502	1.4	5
123	Preparation and characterization of cellulose acetate membranes with TEMPO-oxidized cellulose nanofibrils containing alkyl ammonium carboxylates. <i>Cellulose</i> , <b>2020</b> , 27, 1357-1365	5.5	5
122	Thermal Insulating Property of Silsesquioxane Hybrid Film Induced by Intramolecular Void Spaces. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 3383-3391	4.3	5
121	Annealing behavior of open spaces in AlON films studied by monoenergetic positron beams. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 182103	3.4	5
120	. IEEE Transactions on Semiconductor Manufacturing, <b>2015</b> , 28, 92-95	2.6	4
119	The Effects of Plasma Treatments and Subsequent Atomic Layer Deposition on the Pore Structure of a k = 2.0 Low-k Material. <i>ECS Journal of Solid State Science and Technology</i> , <b>2013</b> , 2, N103-N109	2	4
118	Chemical effect of Si+ ions on the implantation-induced defects in ZnO studied by a slow positron beam. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 043506	2.5	4
117	A study on vacancy-type defects in the electroless Cu measured with a monoenergetic positron beam. <i>Scripta Materialia</i> , <b>2009</b> , 61, 8-11	5.6	4
116	Relationship between defects and optical properties in Er-doped GaN. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 3097-3099	1.6	4
115	Open spaces and molecular motions in carbon-black- and silica-loaded SBR investigated using positron annihilation. <i>Journal of Polymer Science, Part B: Polymer Physics,</i> <b>2001</b> , 39, 835-842	2.6	4
114	Oxygen-related defects in low-dose separation-by-implanted oxygen wafers probed by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 6026-6031	2.5	4
113	Oxygen Microclusters in Czochralski-Grown Si Probed by Positron Annihilation. <i>Japanese Journal of Applied Physics</i> , <b>1994</b> , 33, L1131-L1134	1.4	4
112	Characterization of silicon dioxide deposited by low-temperature CVD using TEOS and ozone by monoenergetic positron beams. <i>Hyperfine Interactions</i> , <b>1994</b> , 84, 231-236	0.8	4
111	Dopant activation process in Mg-implanted GaN studied by monoenergetic positron beam. <i>Scientific Reports</i> , <b>2021</b> , 11, 20660	4.9	4
110	Morphological characterization and mechanical behavior by dicing and thinning on direct bonded Si wafer. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 58, 811-818	5	4
109	Dynamic Observation and Theoretical Analysis of Initial O2 Molecule Adsorption on Polar and m-Plane Surfaces of GaN. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 25282-25290	3.8	4
108	Electronic and optical characteristics of anm-plane GaN single crystal grown by hydride vapor phase epitaxy on a GaN seed synthesized by the ammonothermal method using an acidic mineralizer. Japanese Journal of Applied Physics, 2016, 55, 05FA03	1.4	4
107	Effect of Ag doping on crystallinity and microstrain of LaMnO3 nanoparticles: Confirmations of defect levels with positron lifetime and Doppler-broadening calculations. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 615, 413087	2.8	4

### (2012-2015)

106	Vacancies in InxGa1N/GaN multiple quantum wells fabricated onm-plane GaN probed by a monoenergetic positron beam. <i>Applied Physics Express</i> , <b>2015</b> , 8, 051002	2.4	3
105	The Influence of AlN Nucleation Layer on Radio Frequency Transmission Loss of AlN-on-Si Heterostructure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2020</b> , 217, 1900755	1.6	3
104	Positron annihilation and cathodoluminescence study on inductively coupled plasma etched GaN. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 913-916	1.3	3
103	Effect of incorporation of deuterium on vacancy-type defects of a-C:H films prepared by plasma CVD. <i>Applied Surface Science</i> , <b>2015</b> , 330, 142-147	6.7	3
102	Vacancy reactions near the interface between electroplated Cu and barrier metal layers studied by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 074510	2.5	3
101	Understanding the effect of nanoporosity on optimizing the performance of self-healing materials for anti-corrosion applications. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 262, 012054	0.3	3
100	Point defects in GaN and related group-III nitrides studied by means of positron annihilation 2011,		3
99	Structure-Modification Model of Porogen-Based Porous SiOC Film with Ultraviolet Curing. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 05EB06	1.4	3
98	Variation of Chemical Vapor Deposited SiO\$_{2}\$ Density Due to Generation and Shrinkage of Open Space During Thermal Annealing. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 021101	1.4	3
97	Open volumes in SiN films for strained Si transistors probed using monoenergetic positron beams. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 252107	3.4	3
96	Defects-induced volume deviations in ZnSe. <i>Journal of Crystal Growth</i> , <b>2002</b> , 237-239, 1566-1569	1.6	3
95	Evaluation of SOI Substrates by Positron Annihilation. <i>Japanese Journal of Applied Physics</i> , <b>2001</b> , 40, 29	003-290	063
94	Oxygen-Related Defects Introduced by As+-Implantation through Cap Layers in Si Probed by Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, 6126-6129	1.4	3
93	Open spaces and molecular motions of acrylic epoxy-based network polymers probed by positron annihilation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1999</b> , 37, 2875-2880	2.6	3
92	Defects in TiN Films Probed by Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>1995</b> , 34, 5711-5716	1.4	3
91	A Diffusion of Positrons by an Electric Field in MOS Transistors. <i>Materials Science Forum</i> , <b>1992</b> , 105-110, 1475-1478	0.4	3
90	Vacancy-Type Defects Introduced by Gas Cluster Ion-Implantation on Si Studied by Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 111801	1.4	3
89	Variation of Chemical Vapor Deposited SiO2Density Due to Generation and Shrinkage of Open Space During Thermal Annealing. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 021101	1.4	3

88	Investigation on photoluminescence properties and defect chemistry of GdAlO3:Dy3+ Ba2+ phosphors. <i>Optical Materials</i> , <b>2016</b> , 58, 524-530	3.3	3
87	In-plane optical polarization and dynamic properties of the near-band-edge emission of an m-plane freestanding AlN substrate and a homoepitaxial film. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 151903	3.4	3
86	Interfacial Conductivity Enhancement and Pore Confinement Conductivity-Lowering Behavior inside the Nanopores of Solid Silica-gel Nanocomposite Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 40543-40551	9.5	3
85	StructureThermal Property Relationships of Polysilsesquioxanes for Thermal Insulation Materials. <i>ACS Applied Polymer Materials</i> , <b>2022</b> , 4, 2851-2859	4.3	3
84	OrganicIhorganic Hybrid Thermal Insulation Materials Prepared via Hydrosilylation of Polysilsesquioxane Having Hydrosilyl Groups and Triallylisocyanurate. <i>ACS Applied Polymer Materials</i> , <b>2022</b> , 4, 3726-3733	4.3	3
83	Two-dimensional mapping of hydrogen and other elements in materials with microbeam-based transmission ERDA and PIXE. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2019</b> , 450, 319-322	1.2	2
82	Hole capture-coefficient of intrinsic nonradiative recombination centers that commonly exist in bulk, epitaxial, and proton-irradiated ZnO. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 215704	2.5	2
81	Spatio-Time-Resolved Cathodoluminescence Studies on Freestanding GaN Substrates Grown by Hydride Vapor Phase Epitaxy. <i>ECS Transactions</i> , <b>2013</b> , 50, 1-8	1	2
80	Influence of wafer thinning process on backside damage in 3D integration 2013,		2
79	(Invited) Degradation in HfSiON Film Induced by Electrical Stress Application. <i>ECS Transactions</i> , <b>2010</b> , 28, 263-272	1	2
78	Vacancy-Type Defects Introduced by Gas Cluster Ion-Implantation on Si Studied by Monoenergetic Positron Beams. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 111801	1.4	2
77	Defects in the Ti/GaAs system probed by monoenergetic positron beams. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 6827-6835	1.8	2
76	Open spaces and molecular motions of polyether-based network polymers probed by positron annihilation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1998</b> , 36, 1919-1925	2.6	2
75	Characterization of Vacancy Defects in Electroplated Cu Films by Positron Annihilation and its Impact on Stress Migration Reliability. <i>AIP Conference Proceedings</i> , <b>2006</b> ,	Ο	2
74	Annealing properties of open volumes in strained SiN films studied by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 064513	2.5	2
73	A study of vacancy-type defects introduced by the carburization of Si by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 3606-3610	2.5	2
72	Characterization of Metal/GaAs Interfaces by Monoenergetic Positron Beam. <i>Japanese Journal of Applied Physics</i> , <b>1995</b> , 34, 5505-5509	1.4	2
71	Glass Transition and Relaxation Processes of Polymers Studied by Positron Annihilation <i>Kobunshi Ronbunshu</i> , <b>1996</b> , 53, 563-574	O	2

70	Free volumes in nematic and smectic liquid-crystalline polymers probed by positron annihilation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1996</b> , 34, 1659-1664	2.6	2
69	Characterization of thin films by a pulsed positron beam. AIP Conference Proceedings, 1994,	O	2
68	Defects in Heavily Phosphorus-Doped Si Epitaxial Films Probed by Monoenergetic Positron Beams. Japanese Journal of Applied Physics, <b>1994</b> , 33, 6286-6290	1.4	2
67	Origin and dynamic properties of major intrinsic nonradiative recombination centers in wide bandgap nitride semiconductors <b>2020</b> ,		2
66	Growth of high-quality GaN by halogen-free vapor phase epitaxy. <i>Applied Physics Express</i> , <b>2020</b> , 13, 085	5 <b>0</b> 9 <sub>4</sub>	2
65	Pore structure analysis of ionic liquid-templated porous silica using positron annihilation lifetime spectroscopy. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 295, 109964	5.3	2
64	Selective trapping of positrons by Ag nanolayers in a V/Ag multilayer system. <i>AIP Advances</i> , <b>2020</b> , 10, 035012	1.5	2
63	Synthesis and characterization of titanium silicon oxide thin films prepared by plasma enhanced atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2018</b> , 36, 06A104	2.9	2
62	Vacancy-type defects in bulk GaN grown by oxide vapor phase epitaxy probed using positron annihilation. <i>Journal of Crystal Growth</i> , <b>2021</b> , 570, 126219	1.6	2
61	Study of relaxation processes in polyethylene and polystyrene by positron annihilation <b>1996</b> , 34, 2145		2
60	Prediction of positron-annihilation parameters for vacancy-type defects in ternary alloy semiconductors by data-scientific approach. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 791, 012023	0.3	1
59	Development of a microbeam PIXE system for additive light elements in structural materials. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 404, 92-95	1.2	1
58	Vacancy-type defects in GaN self-assembled nanowires probed using monoenergetic positron beam. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 175705	2.5	1
57	Voids and vacancy-type defects in SiO2/GaN structures probed by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 054503	2.5	1
56	Effect of Free-Volume Hole Fraction on Dynamic Mechanical Properties of Epoxy Resins Investigated by Pressure-Volume-Temperature Technique. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 1824-1832	3.4	1
55	Characterization of polyethylene terephthalate films coated with thin AlxSi1 IkOy layers using monoenergetic positron beams. <i>Thin Solid Films</i> , <b>2014</b> , 552, 82-85	2.2	1
54	Defects in nitride-based semiconductors probed by positron annihilation. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 505, 012009	0.3	1
53	Development of a sample chamber with humidity control for an atmospheric positron probe microanalyzer. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 443, 012090	0.3	1

52	Material characterization for advanced Si LSI process technology by means of positron annihilation. Journal of Physics: Conference Series, <b>2013</b> , 443, 012067	0.3	1
51	Suppression of anomalous threshold voltage increase with area scaling for Mg- or La-incorporated high-k/Metal gate nMISFETs in deeply scaled region <b>2010</b> ,		1
50	Positron Annihilation Study on Defects in HfSiON Films Deposited by Electron-Beam Evaporation. Japanese Journal of Applied Physics, <b>2009</b> , 48, 111404	1.4	1
49	Reversible and irreversible degradation attributing to oxygen vacancy in HfSiON gate films during electrical stress application <b>2009</b> ,		1
48	Defects in Ga(In)NAs thin films grown by atomic H-assisted molecular beam epitaxy. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 064910	2.5	1
47	Defects introduced into SrTiO3 by auto-feeding epitaxy studied using positron annihilation technique. <i>Materials Science in Semiconductor Processing</i> , <b>2003</b> , 6, 367-369	4.3	1
46	Identification of vacancy-type defects in ZnTe using positron annihilation spectroscopy. <i>Physica Status Solidi A</i> , <b>2005</b> , 202, 1914-1918		1
45	Defects in p+-gate metal®xideBemiconductor structures probed by monoenergetic positron beams. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 5385-5391	2.5	1
44	Annealing Properties of Defects in BF2+ Implanted Silicon. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 438, 137		1
43	Effects of Vacancy-Type Defects on Electrical-Activation of P+ Implanted into Silicon. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 439, 95		1
42	Investigation of transitions and relaxation processes in polystyrene by using positron annihilation. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>1996</b> , 210, 479-484	1.5	1
41	Vacancy-Oxygen Complexes in Si Probed by Positron Annihilation. <i>Materials Science Forum</i> , <b>1994</b> , 175-178, 553-556	0.4	1
40	Impurity effect on the creation of point-defects in GaAs and InP investigated by a slow positron beam. <i>Hyperfine Interactions</i> , <b>1994</b> , 84, 243-248	0.8	1
39	Characterization of Metal-Oxide-Silicon Interface by Monoenergetic Positron Beam. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 262, 313		1
38	Structure-Modification Model of Porogen-Based Porous SiOC Film with Ultraviolet Curing. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 05EB06	1.4	1
37	Impacts of Dislocations and Point Defects on the Internal Quantum Efficiency of the Near-Band-Edge Emission in AlGaN-Based DUV Light-Emitting Materials. <i>Springer Series in Materials Science</i> , <b>2016</b> , 115-136	0.9	1
36	Characterization of diamond single crystals by means of double-crystal X-ray diffraction and positron annihilation <b>1995</b> , 61, 331		1
35	Reduced nonradiative recombination rates in c-plane Al0.83In0.17N films grown on a nearly lattice-matched GaN substrate by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 091105	3.4	1

34	Transition and relaxation processes of polyethylene, polypropylene, and polystyrene studied by positron annihilation <b>1997</b> , 35, 1601		1
33	Effect of Ultra-High-Pressure Annealing on Defect Reactions in Ion-Implanted GaN Studied by Positron Annihilation. <i>Physica Status Solidi (B): Basic Research</i> ,2200183	1.3	1
32	Annihilation characteristics of positrons in free-standing thin metal and polymer films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 750-754	1.2	0
31	Spin dependent momentum density and Fermi surface of ferromagnetic Ni obtained by positron annihilation experiments. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, 2962-2967	1.3	О
30	Impurity diffusion in ion implanted AlN layers on sapphire substrates by thermal annealing. <i>Japanese Journal of Applied Physics</i> , <b>2022</b> , 61, 026501	1.4	O
29	Optical and electrical properties of silicon-implanted 🖽 l2O3. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, 106502	1.4	О
28	Vacancy-Type Defects in GaN for Power Devices Probed by Positron Annihilation. <i>Defect and Diffusion Forum</i> , <b>2017</b> , 373, 183-188	0.7	
27	Positron annihilation lifetime spectroscopy of mechanically milled protein fibre powders and their free volume aspects. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 443, 012054	0.3	
26	Application of positron annihilation technique to front and backend processes for modern LSI devices. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 262, 012061	0.3	
25	The role of positron annihilation lifetime studies and nuclear sensors for characterising porous materials. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 262, 012040	0.3	
24	Study of high-k gate dielectrics by means of positron annihilation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2007</b> , 4, 3599-3604		
23	Guiding Principle of Energy Level Controllability of Silicon Dangling Bonds in HfSiON. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 1891-1894	1.4	
22	Microstructural Characterization of Electroplated Copper Films on Copper-Alloy Seed Layer. <i>Bunseki Kagaku</i> , <b>2007</b> , 56, 465-470	0.2	
21	Reversible Photodissociation of Hexacarbonyl Tungsten in Cross-Linked Polymers. <i>Bulletin of the Chemical Society of Japan</i> , <b>2006</b> , 79, 1787-1792	5.1	
20	Point defects in thin HfAlOx films probed by monoenergetic positron beams. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 786, 121		
19	Vacancy-Type Defects in SrTiO3 Probed by a Monoenergetic Positron Beam. <i>Materials Science Forum</i> , <b>2004</b> , 445-446, 201-203	0.4	
18	Characterization of photoresists for ArF-excimer laser lithography using monoenergetic positron beams. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2004</b> , 42, 341-346	2.6	
17	Evaluation on Defects of Er and Yb Implanted Al070Ga030As by Using Positron Annihilation Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 891, 1		_

16	Impact of the Growth Polar Direction on the Optical Properties of Gan Films Grown by Metalorganic Vapor Phase Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 639, 1161	
15	Effects of Vacancy-Type Defects on Electrical-Activation of P+ Implanted into Silicon. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 438, 131	
14	Annealing Properties of Defects in BF2+ Implanted Silicon. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 439, 143	
13	Localized positronium atoms in porous structures studied by 2D-ACAR. <i>Hyperfine Interactions</i> , <b>1994</b> , 84, 237-242	0.8
12	B+, P+, As+ and Si+ Ion Implantation Induced Defects in Silicon Studied by a Variable-Energy Positron Bean. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 262, 1055	
11	Defect Formation by Ion Implantation in Cz-Si Studied by a Monoenergetic Positron Beam. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 262, 1061	
10	Point Defect Assisted Crystal Growth of Bulk ZnSe. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 262, 111	
9	Evaluation of Vacancy-Type Defects in Simox Substrates by a Slow Positron Beam and a Pulsed Positron Beam. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 262, 235	
8	Characterization of Defects in Heavily Si-Doped GaAs by a Monoenergetic Positron Beam. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 262, 277	
7	Defects Introduced by Low Dose Be-Implantation Probed by a Monoenergetic Positron Beam. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 262, 325	
6	Defects in separation by implanted oxygen wafer probed by monoenergetic positron beams. <i>Hyperfine Interactions</i> , <b>1993</b> , 79, 621-625	0.8
5	Annealing Behaviours of Open Spaces in Thin Al2O3 Films Deposited on Semiconductors Studied Using Monoenergetic Positron Beams. <i>Acta Physica Polonica A</i> , <b>2020</b> , 137, 227-230	0.6
4	Calculation of Positron States and Annihilation Parameters in Gamma and Amorphous Al2O3. <i>Acta Physica Polonica A</i> , <b>2020</b> , 137, 231-234	0.6
3	Free Volume in Epoxy Resins for CFRP Studied by Means of Positron Annihilation. <i>Journal of the Japan Society for Precision Engineering</i> , <b>2020</b> , 86, 206-209	0.1
2	Surfaces of materials probed with a monoenergetic positron beam <i>Hyomen Kagaku</i> , <b>1990</b> , 11, 598-603	3
1	Growth of AlxGa1-xN/InyGa1-yN hetero structure on AlN/sapphire templates exhibiting Shubnikov-de Haas oscillation. <i>Journal of Crystal Growth</i> , <b>2021</b> , 574, 126324	1.6