Ryoichi Suzuki

List of Publications by Citations

315 papers	4,699 citations	34 h-index	51 g-index
324 ext. papers	4,958 ext. citations	2.5 avg, IF	4.71 L-index

#	Paper	IF	Citations
315	Free-Volume Depth Profile of Polymeric Membranes Studied by Positron Annihilation Spectroscopy: Layer Structure from Interfacial Polymerization. *Macromolecules*, **2007**, 40, 7542-7557	5.5	228
314	Slow Positron Pulsing System for Variable Energy Positron Lifetime Spectroscopy. *Japanese Journal of Applied Physics*, **1991**, 30, L532-L534	1.4	174
313	Production and recovery of defects in phosphorus-implanted ZnO. *Journal of Applied Physics*, **2005**, 97, 013528	2.5	121
312	Pore size determination of TEMPO-oxidized cellulose nanofibril films by positron annihilation lifetime spectroscopy. *Biomacromolecules*, **2011**, 12, 4057-62	6.9	93
311	Evolution of voids in Al+-implanted ZnO probed by a slow positron beam. *Physical Review B*, **2004**, 69,	3.3	90
310	Probing the internal structure of reverse osmosis membranes by positron annihilation spectroscopy: Gaining more insight into the transport of water and small solutes. *Journal of Membrane Science*, **2015**, 486, 106-118	9.6	89
309	A variable energy positron annihilation lifetime spectroscopy study of physical aging in thin glassy polymer films. *Polymer*, **2009**, 50, 6149-6156	3.9	86
308	Microvoid formation in hydrogen-implanted ZnO probed by a slow positron beam. *Physical Review B*, **2005**, 71,	3.3	85
307	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	2.5	80
306	Positronium reemission yield from mesostructured silica films. *Applied Physics Letters*, **2008**, 92, 063114	3.4	62
305	Correlation Study between Free-Volume Holes and Molecular Separations of Composite Membranes for Reverse Osmosis Processes by Means of Variable-Energy Positron Annihilation Techniques. *Journal of Physical Chemistry C*, **2011**, 115, 18055-18060	3.8	58
304	A positron lifetime spectroscopy apparatus for surface and near-surface positronium experiments. *Radiation Physics and Chemistry*, **2000**, 58, 603-606	2.5	58
303	Free-volume hole model for positronium formation in polymers: surface studies. *Journal of Physics Condensed Matter*, **1998**, 10, 10429-10442	1.8	56
302	First lasing of the NIJI-IV storage-ring free-electron laser. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1993**, 331, 27-33	1.2	54
301	Nanoporous structure of sputter-deposited silicon oxide films characterized by positronium annihilation spectroscopy. *Journal of Applied Physics*, **2002**, 91, 1704-1706	2.5	51
300	Stretching of slow positron pulses generated with an electron linac. *Applied Physics A: Solids and Surfaces*, **1990**, 51, 146-150		51
299	Brightness enhancement method for a high-intensity positron beam produced by an electron accelerator. *Journal of Applied Physics*, **2008**, 103, 094916	2.5	48

298	Native cation vacancies in Si-doped AlGaN studied by monoenergetic positron beams. *Journal of Applied Physics*, **2012**, 111, 013512	2.5	45
297	Evidence for pore surface dependent positronium thermalization in mesoporous silica/hybrid silica films. *Physical Review B*, **2007**, 75,	3.3	44
296	Development of positron annihilation spectroscopy to test accelerated weathering of protective polymer coatings. *Radiation Physics and Chemistry*, **2000**, 58, 639-644	2.5	43
295	Characterization of free volume and density gradients of polystyrene surfaces by low-energy positron lifetime measurements. *Polymer*, **2004**, 45, 4533-4539	3.9	40
294	Rejection of small and uncharged chemicals of emerging concern by reverse osmosis membranes: The role of free volume space within the active skin layer. *Separation and Purification Technology*, **2013**, 116, 426-432	8.3	39
293	Point defects in group-III nitride semiconductors studied by positron annihilation. *Journal of Crystal Growth*, **2009**, 311, 3075-3079	1.6	39
292	Characterization of Hydrogenated Amorphous Silicon Films by a Pulsed Positron Beam. *Japanese Journal of Applied Physics*, **1991**, 30, 2438-2441	1.4	39
291	Rapid three-dimensional imaging of defect distributions using a high-intensity positron microbeam. *Applied Physics Letters*, **2009**, 94, 194104	3.4	38
290	Depth profile of free volume in a mixture and copolymers of poly(N-vinyl-pyrrolidone) and poly(ethylene glycol) studied by positron annihilation spectroscopy. *Biomacromolecules*, **2003**, 4, 1856-64	6.9	38
289	Vacancy Clusters on Surfaces of Au Nanoparticles Embedded in MgO. *Physical Review Letters*, **1999**, 83, 4586-4589	7.4	38
288	Positron-annihilation studies of stable Al-based icosahedral quasicrystals. *Physical Review B*, **1999**, 59, 6712-6716	3.3	37
287	Degradation of Polymer Coating Systems Studied by Positron Annihilation Spectroscopy. 3. Wavelength Dependence of UV Irradiation Effect. *Macromolecules*, **1999**, 32, 5925-5933	5.5	36
286	Linearly polarized photons from Compton backscattering of laser light for nuclear resonance fluorescence experiments. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1994**, 353, 384-388	1.2	36
285	Role of pore morphology in positronium diffusion in mesoporous silica thin films and in positronium emission from the surfaces. *Physical Review B*, **2012**, 86,	3.3	35
284	Positron Study of Electron Momentum Density and Fermi Surface in Titanium and Zirconium. *Journal of the Physical Society of Japan*, **1989**, 58, 3251-3263	1.5	35
283	Possible presence of hydrophilic SO3H nanoclusters on the surface of dry ultrathin Nafion□ films: a positron annihilation study. *Physical Chemistry Chemical Physics*, **2013**, 15, 1518-25	3.6	34
282	Annealing properties of vacancy-type defects in ion-implanted GaN studied by monoenergetic positron beams. *Journal of Applied Physics*, **2007**, 102, 084505	2.5	34
281	Characterization of pore size distribution (PSD) in cellulose triacetate (CTA) and polyamide (PA) thin active layers by positron annihilation lifetime spectroscopy (PALS) and fractional rejection (FR) method. *Journal of Membrane Science*, **2017**, 527, 143-151	9.6	33

280	Free volume behavior in spincast thin film of polystyrene by energy variable positron annihilation lifetime spectroscopy. *Polymer*, **2009**, 50, 3343-3346	3.9	33
279	Positronium formation in SiO2 films grown on Si substrates studied by monoenergetic positron beams. *Journal of Applied Physics*, **1994**, 75, 3822-3828	2.5	33
278	Annealing Properties of Defects inB+- andF+-Implanted Si Studied Using Monoenergetic Positron Beams. *Japanese Journal of Applied Physics*, **1997**, 36, 2571-2580	1.4	32
277	Free volumes and holes near the polymer surface studied by positron annihilation. *Applied Surface Science*, **1999**, 149, 116-124	6.7	32
276	Nanoporous structure of methyl-silsesquioxane films using monoenergetic positron beams. *Journal of Applied Physics*, **2001**, 90, 2498-2503	2.5	31
275	Vacancy-type defects in BaTiO3/SrTiO3 structures probed by monoenergetic positron beams. *Journal of Applied Physics*, **2002**, 91, 5307-5312	2.5	31
274	Porogen approach for the fabrication of plasma-polymerized nanoporous polysiloxane films. *Journal of Physical Chemistry B*, **2006**, 110, 20172-6	3.4	30
273	Free-volume hole properties near the surface of polymers obtained from slow positron annihilation spectroscopy. *Applied Surface Science*, **1997**, 116, 251-255	6.7	28
272	Positronium annihilation and pore surface chemistry in mesoporous silica films. *Applied Physics Letters*, **2007**, 91, 024102	3.4	28
271	Interaction of nitrogen with vacancy defects in N+-implanted ZnO studied using a slow positron beam. *Applied Physics Letters*, **2005**, 87, 091910	3.4	28
270	Anion vacancies in CuInSe2. *Thin Solid Films*, **2001**, 387, 129-134	2.2	28
269	Pore Characteristics of Low-Dielectric-Constant Films Grown by Plasma-Enhanced Chemical Vapor Deposition Studied by Positron Annihilation Lifetime Spectroscopy. *Japanese Journal of Applied Physics*, **2001**, 40, L414-L416	1.4	28
268	Ion-beam-induced recrystallization in Si(100) studied with slow positron annihilation and Rutherford backscattering and channeling. *Physical Review Letters*, **1993**, 70, 45-48	7.4	28
267	Free-volume distribution and glass transition of nano-scale polymeric films. *Radiation Physics and Chemistry*, **2007**, 76, 172-179	2.5	27
266	Vacancy defects in solid-phase epitaxial grown layers of self-implanted Si. *Applied Physics Letters*, **1999**, 74, 997-999	3.4	27
265	Positron-lifetime study on porous silicon with a monoenergetic pulsed positron beam. *Physical Review B*, **1994**, 49, 17484-17487	3.3	27
264	Properties of Low-k Copper Barrier SiOCH Film Deposited by PECVD Using Hexamethyldisiloxane and N[sub 2]O. *Journal of the Electrochemical Society*, **2003**, 150, F83	3.9	26
263	Mechanism of enhanced positronium formation in low-temperature polymers. *Journal of Chemical Physics*, **2005**, 122, 214907	3.9	26

262	Generation of an intense pulsed positron beam for positron lifetime and TOF experiments. *Applied Surface Science*, **1995**, 85, 87-91	6.7	25
261	Free Volume and Density Gradients of Amorphous Polymer Surfaces As Determined by Use of a Pulsed Low-Energy Positron Lifetime Beam and PVT Data. *Macromolecules*, **2004**, 37, 4201-4210	5.5	24
260	Positron annihilation in SiO2/Si studied by a pulsed slow positron beam. *Applied Surface Science*, **2002**, 194, 89-96	6.7	24
259	Positronium time-of-flight measurements of porous low-k films. *Applied Physics Letters*, **2003**, 83, 4966-4968	3.4	24
258	Identification of open-volume defects in disordered and amorphized Si: A depth-resolved positron annihilation study. *Physical Review B*, **2001**, 63,	3.3	24
257	Quantum antidot formation and correlation to optical shift of gold nanoparticles embedded in MgO. *Physical Review Letters*, **2002**, 88, 175502	7.4	24
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255	Tunable pores in mesoporous silica films studied using a pulsed slow positron beam. *Radiation Physics and Chemistry*, **2007**, 76, 204-208	2.5	23
254	Dependence of porosity in methyl-silsesquioxane thin films on molecular weight of sacrificial triblock copolymer. *Chemical Physics Letters*, **2002**, 364, 309-313	2.5	22
253	Hydrogen-terminated defects in ion-implanted silicon probed by monoenergetic positron beams. *Journal of Applied Physics*, **2003**, 93, 3228-3233	2.5	22
252	Investigation of Positron Moderator Materials for Electron-Linac-Based Slow Positron Beamlines. *Japanese Journal of Applied Physics*, **1998**, 37, 4636-4643	1.4	22
251	Lasing in visible of a storage-ring free electron laser at ETL. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1991**, 309, 343-347	1.2	22
250	Tailoring the chain packing in ultrathin polyelectrolyte films formed by sequential adsorption: nanoscale probing by positron annihilation spectroscopy. *Journal of the American Chemical Society*, **2012**, 134, 19808-19	16.4	21
249	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	3.4	21
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247	Positron Annihilation Spectroscopy on Nitride-Based Semiconductors. *Japanese Journal of Applied Physics*, **2013**, 52, 08JJ02	1.4	20
246	Defects introduced into electroplated Cu films during room-temperature recrystallization probed by a monoenergetic positron beam. *Journal of Applied Physics*, **2005**, 98, 043504	2.5	20
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244	Structural defects and positronium formation in 40 keV B(+)-implanted polymethylmethacrylate. *Journal of Physical Chemistry B*, **2014**, 118, 4194-200	3.4	19
243	Positron annihilation in cardo-based polymer membranes. *Journal of Physical Chemistry B*, **2014**, 118, 6007-14	3.4	19
242	Mesoporous silica films with varying porous volume fraction: Direct correlation between ortho-positronium annihilation decay and escape yield into vacuum. *Applied Physics Letters*, **2009**, 95, 124103	3.4	19
241	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
240	Effect of UV anneal on plasma CVD low-k film. *Journal of Non-Crystalline Solids*, **2008**, 354, 2973-2982	3.9	19
239	Variable-energy positron annihilation study of subnanopores in SiOCH-based PECVD films. *Radiation Physics and Chemistry*, **2007**, 76, 213-216	2.5	19
238	Study of mesoporous silica films by positron annihilation based on a slow positron beam: Effects of preparation conditions on pore size and open porosity. *Chemical Physics*, **2007**, 331, 213-218	2.3	19
237	Application of positron beams to the study of positronium-forming solids. *Applied Surface Science*, **2008**, 255, 174-178	6.7	19
236	Three-dimensional positron-electron momentum distribution in single-crystal graphite. *Physical Review B*, **1990**, 42, 11583-11586	3.3	19
235	A positron annihilation lifetime measurement system with an intense positron microbeam. *Radiation Physics and Chemistry*, **2009**, 78, 1096-1098	2.5	18
234	Moderation of Positrons Generated by an Electron Linac. *Materials Science Forum*, **1997**, 255-257, 114-118	0.4	18
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229	Positron re-emission from tungsten surfaces. *Applied Surface Science*, **1999**, 149, 66-70	6.7	18
228	SiO2 films deposited on Si substrates studied by monoenergetic positron beams. *Journal of Applied Physics*, **1994**, 75, 216-222	2.5	17
227	Slow positron beam study of corrosion-related defects in pure iron. *Applied Surface Science*, **2006**, 252, 3274-3277	6.7	16

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225	Positron studies of polymeric coatings. *Radiation Physics and Chemistry*, **2003**, 68, 395-402	2.5	16
224	Annealing properties of open volumes in HfSiOx and HfAlOx gate dielectrics studied using monoenergetic positron beams. *Journal of Applied Physics*, **2005**, 98, 023506	2.5	16
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219	Vacancy-Type Defects in Ion-Implanted Diamonds Probed by Monoenergetic Positron Beams. *Japanese Journal of Applied Physics*, **1995**, 34, 1772-1777	1.4	15
218	Effect of heat treatment on fouling resistance and the rejection of small and neutral solutes by reverse osmosis membranes. *Water Science and Technology: Water Supply*, **2015**, 15, 510-516	1.4	14
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216	Structural defects in SiO2/SiC interface probed by a slow positron beam. *Applied Surface Science*, **2005**, 244, 322-325	6.7	14
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214	Crystallization of an amorphous layer in P+-implanted 6H-SiC studied by monoenergetic positron beams. *Journal of Applied Physics*, **2000**, 87, 4119-4125	2.5	14
213	Performance evaluation of polyamide TFC membranes: Effects of free volume properties on boron transport. *Desalination*, **2018**, 432, 104-114	10.3	13
212	Durability and Free Volume in Polymeric Coatings Studied by Positron Annihilation Spectroscopy. *Materials Science Forum*, **2004**, 445-446, 274-276	0.4	13
211	Low-kSiOCH Film Deposited by Plasma-Enhanced Chemical Vapor Deposition Using Hexamethyldisiloxane and Water Vapor. *Japanese Journal of Applied Physics*, **2005**, 44, 3879-3884	1.4	13
210	Simulations of slow positron production using a low-energy electron accelerator. *Review of Scientific Instruments*, **2011**, 82, 063302	1.7	12
209	Orthopositronium annihilation and emission in mesostructured thin silica and silicalite-1 films. *Applied Surface Science*, **2008**, 255, 187-190	6.7	12

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206	Mesoporous low-k hydrogen-silsesquioxane films characterized by positron annihilation and other techniques. *Radiation Physics and Chemistry*, **2003**, 68, 435-437	2.5	12
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200	Two-dimensional electron momentum distribution in graphite revealed by means of angular correlation of positron annihilation. *Journal of Physics and Chemistry of Solids*, **1987**, 48, 701-705	3.9	12
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197	Fluorine-Related Defects inBF2+-Implanted Si Probed by Monoenergetic Positron Beams. *Japanese Journal of Applied Physics*, **1997**, 36, 969-974	1.4	11
196	Microdefects in Al2O3 films and interfaces revealed by positron lifetime spectroscopy. *Applied Physics Letters*, **1997**, 71, 3165-3167	3.4	11
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193	Positron and positronium annihilation in silica-based thin films studied by a pulsed positron beam. *Radiation Physics and Chemistry*, **2003**, 68, 339-343	2.5	11
192	Investigation of Vacancy-Type Defects in P+-Implanted 6H-SiC Using Monoenergetic Positron Beams. *Japanese Journal of Applied Physics*, **1998**, 37, 2422-2429	1.4	11
191	Characterization of H-related defects in H-implanted Si with slow positrons. *Applied Surface Science*, **1999**, 149, 188-192	6.7	11

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188	Vacancy-type defects induced by grinding of Si wafers studied by monoenergetic positron beams. *Journal of Applied Physics*, **2014**, 116, 134501	2.5	10
187	On determining the entrance size of cage-like pores in mesoporous silica films by positron annihilation lifetime spectroscopy. *Chemical Physics Letters*, **2013**, 590, 97-100	2.5	10
186	Vacancy clustering and its dissociation process in electroless deposited copper films studied by monoenergetic positron beams. *Journal of Applied Physics*, **2012**, 111, 104506	2.5	10
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181	Helium ion implantation-induced defects in silicon probed with variable-energy positrons. *Physical Review B*, **2003**, 68,	3.3	10
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178	Electrical and Structural Properties of Al and B Implanted 4H-SiC. *Materials Science Forum*, **2000**, 338-342, 909-912	0.4	10
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171	Role of defects during amorphization and relaxation processes in Si. *Nuclear Instruments & Methods in Physics Research B*, **1995**, 106, 198-205	1.2	9
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169	Radiation damage in nanocrystalline Ni under irradiation studied using positron annihilation spectroscopy. *Journal of Nuclear Materials*, **2013**, 442, S856-S860	3.3	8
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167	Variable-energy Positron Study of Nanopore Structure in Hydrocarbon–Siliconoxide Hybrid PECVD Films. *Physics Procedia*, **2012**, 35, 140-144		8
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165	Defect profiles in ion-irradiated metal samples by slow positron beams in comparison with simulation profiles. *Journal of Physics: Conference Series*, **2011**, 262, 012029	0.3	8
164	Free volume change of elongated polyethylene films studied using a positron probe microanalyzer. *Applied Physics Letters*, **2012**, 101, 203108	3.4	8
163	Impact of Residual Impurities on Annealing Properties of Vacancies in Electroplated Cu Studied Using Monoenergetic Positron Beams. *Japanese Journal of Applied Physics*, **2007**, 46, L483-L485	1.4	8
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161	Identification of vacancy–oxygen complexes in oxygen-implanted silicon probed with slow positrons. *Journal of Applied Physics*, **2004**, 95, 3404-3410	2.5	8
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159	High sensitivity of positron-annihilation induced Auger-electron spectroscopy to surface impurities. *Applied Surface Science*, **1996**, 100-101, 73-76	6.7	8
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157	Imaging of the distribution of average positron lifetimes by using a positron probe microanalyzer. *Journal of Physics: Conference Series*, **2011**, 262, 012044	0.3	7
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