

Yasuyoshi Nagai

List of Publications by Year in descending order

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230
papers

4,992
citations

101543

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h-index

128289

60
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all docs

232
docs citations

232
times ranked

3050
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of $\text{In}^{2-}\text{Ga}^{2-}\text{O}^{3-}/\text{Si}$ heterointerface and characterization of interfacial structures for high-power device applications. Japanese Journal of Applied Physics, 2022, 61, SF1001.	1.5	9
2	AlGaIn/GaN/3C-SiC on diamond HEMTs with thick nitride layers prepared by bonding-first process. Applied Physics Express, 2022, 15, 041003.	2.4	3
3	Variation in atomistic structure due to annealing at diamond/silicon heterointerfaces fabricated by surface activated bonding. Japanese Journal of Applied Physics, 2022, 61, SF1006.	1.5	3
4	Microstructure, hardening and deuterium retention in CVD tungsten irradiated with neutrons at temperatures of defect recovery stages II and III. Tungsten, 2022, 4, 248-260.	4.8	2
5	Grain-boundary phosphorus segregation in highly neutron-irradiated reactor pressure vessel steels and its effect on irradiation embrittlement. Journal of Nuclear Materials, 2021, 543, 152564.	2.7	14
6	Fabrication of high-quality GaAs/diamond heterointerface for thermal management applications. Diamond and Related Materials, 2021, 111, 108207.	3.9	16
7	Segregation mechanism of arsenic dopants at grain boundaries in silicon. Science and Technology of Advanced Materials Methods, 2021, 1, 169-180.	1.3	3
8	Room temperature direct bonding of diamond and InGaP in atmospheric air. Functional Diamond, 2021, 1, 110-116.	3.8	13
9	Crystallite distribution analysis based on hydrogen content in thin-film nanocrystalline silicon solar cells by atom probe tomography. Applied Physics Express, 2021, 14, 016501.	2.4	1
10	Iron nitride, Fe_{16}N_2 , around $\sim 100\text{\AA}$ interstitial type dislocation loops in neutron-irradiated iron. Philosophical Magazine, 2021, 101, 1202-1213.	1.6	1
11	Correlative atom probe tomography and scanning transmission electron microscopy reveal growth sequence of LPSO phase in Mg alloy containing Al and Gd. Scientific Reports, 2021, 11, 3073.	3.3	7
12	Insight into segregation sites for oxygen impurities at grain boundaries in silicon. Applied Physics Express, 2021, 14, 041003.	2.4	6
13	Investigation of Cu Diffusivity in Fe by a Combination of Atom Probe Experiments and Kinetic Monte Carlo Simulation. Materials Transactions, 2021, 62, 929-934.	1.2	3
14	Recovery features of kink boundaries upon post-annealing of a hot-extruded Mg-Zn-Y alloy. Materials Characterization, 2021, 177, 111153.	4.4	13
15	Heavy-ion irradiation and post-irradiation annealing effects in explosion-welded CuCrZr/316LN joints for ITER application. Materials Characterization, 2021, 178, 111252.	4.4	3
16	Neutron irradiation response of explosion-welded CuCrZr/316LN joints for ITER application. Fusion Engineering and Design, 2021, 169, 112620.	1.9	1
17	Fabrication of GaN/Diamond Heterointerface and Interfacial Chemical Bonding State for Highly Efficient Device Design. Advanced Materials, 2021, 33, e2104564.	21.0	41
18	The role of silicon on solute clustering and embrittlement in highly neutron-irradiated pressurized water reactor surveillance test specimens. Journal of Nuclear Materials, 2021, 556, 153203.	2.7	3

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19	Radiation-enhanced diffusion of copper in iron studied by three-dimensional atom probe. Journal of Nuclear Materials, 2021, 556, 153176.	2.7	2
20	Microstructural changes of oxide dispersion strengthened copper powders fabricated by mechanical alloying. Fusion Engineering and Design, 2021, 173, 112804.	1.9	9
21	Origin of recombination activity of non-coherent $\{111\}$ grain boundaries with a positive deviation in the tilt angle in cast-grown silicon ingots. Applied Physics Express, 2021, 14, 011002.	2.4	7
22	Structural analysis of diamond/silicon heterointerfaces fabricated by surface activated bonding at room temperature. , 2021, , .		0
23	Lattice Softening in Metastable bcc Co_xMn_y (001) Ferromagnetic Layers for a Strain-Free Magnetic Tunnel Junction. Physical Review Applied, 2021, 16, 014001.	3.8	10
24	Fabrication of diamond/Cu direct bonding interface for power device applications. Japanese Journal of Applied Physics, 2020, 59, SBBB03.	1.5	11
25	Atomistic modeling of hardening in spinodally-decomposed Fe-Cr binary alloys. Journal of Nuclear Materials, 2020, 540, 152306.	2.7	8
26	Chemical bonding at room temperature via surface activation to fabricate low-resistance GaAs/Si heterointerfaces. Applied Surface Science, 2020, 525, 146610.	6.1	20
27	Multiscale characterization of the joint bonded by Cu@Ag core@shell nanoparticles. Applied Physics Letters, 2020, 116, .	3.3	4
28	In-situ WB-STEM observation of dislocation loop behavior in reactor pressure vessel steel during post-irradiation annealing. Materialia, 2020, 12, 100778.	2.7	12
29	Experimental inspection of a computationally-designed NiCrMnSi Heusler alloy with high Curie temperature. Japanese Journal of Applied Physics, 2020, 59, 073003.	1.5	3
30	Effects of neutron flux on irradiation-induced hardening and defects in RPV steels studied by positron annihilation spectroscopy. Journal of Nuclear Materials, 2020, 532, 152041.	2.7	14
31	Characterization of Nanoscopic Cu/Diamond Interfaces Prepared by Surface-Activated Bonding: Implications for Thermal Management. ACS Applied Nano Materials, 2020, 3, 2455-2462.	5.0	13
32	Oxidation-enhanced Si self-diffusion in isotopically modulated silicon nanopillars. Journal of Applied Physics, 2020, 127, 045704.	2.5	5
33	3D impurity profiles of doped/intrinsic amorphous-silicon layers composing textured silicon heterojunction solar cells detected by atom probe tomography. Applied Physics Express, 2020, 13, 126503.	2.4	2
34	Impact of focused ion beam on structural and compositional analysis of interfaces fabricated by surface activated bonding. Japanese Journal of Applied Physics, 2020, 59, SBBB05.	1.5	10
35	Static Strain Aging Mechanisms of Polycrystalline Ferritic Steel Sheets. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2020, 106, 391-401.	0.4	1
36	Defect characterization, mechanical and thermal property evaluation in CVD-W after low-dose neutron irradiation. International Journal of Refractory Metals and Hard Materials, 2019, 85, 105004.	3.8	8

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37	Influence of gas environment and heating on atomic structures of platinum nanoparticle catalysts for proton-exchange membrane fuel cells. <i>Nanotechnology</i> , 2019, 30, 175701.	2.6	3
38	Evaluation of spatial and temporal resolution on in situ annealing aberration-corrected transmission electron microscopy with proportionalâ€“integralâ€“differential controller. <i>Microscopy (Oxford)</i> , 2019, 2019, 110.	1.0	10
39	Radiation-hardening and nano-cluster formation in neutron-irradiated 9Cr 2W low activation steels with different Si contents. <i>Journal of Nuclear Materials</i> , 2019, 517, 1-8.	2.7	12
40	Atom Probe Tomography Interlaboratory Study on Clustering Analysis in Experimental Data Using the Maximum Separation Distance Approach. <i>Microscopy and Microanalysis</i> , 2019, 25, 356-366.	0.4	32
41	Roles of Solute C and Grain Boundary in Strain Aging Behaviour of Fine-grained Ultra-low Carbon Steel Sheets. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2019, 105, 452-461.	0.4	0
42	Atom probe tomography of GaAs homointerfaces fabricated by surface-activated bonding. , 2019, , .		0
43	Outstanding tensile properties of a precipitation-strengthened FeCoNiCrTi0.2 high-entropy alloy at room and cryogenic temperatures. <i>Acta Materialia</i> , 2019, 165, 228-240.	7.9	373
44	Diffusionless isothermal omega transformation in titanium alloys driven by quenched-in compositional fluctuations. <i>Physical Review Materials</i> , 2019, 3, .	2.4	12
45	Development of Niobium Bearing High Carbon Steel Sheet for Knitting Needles. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2019, 105, 76-85.	0.4	0
46	Artifacts in the structural analysis of SAB-fabricated interfaces by using focused ion beam. , 2019, , .		0
47	Composition evolution of gamma prime nanoparticles in the Ti-doped CoFeCrNi high entropy alloy. <i>Scripta Materialia</i> , 2018, 148, 42-46.	5.2	54
48	Blocking of deuterium diffusion in poly-Si/Al2O3/HfSi1âˆ“xO2/SiO2 high-k stacks as evidenced by atom probe tomography. <i>Applied Physics Letters</i> , 2018, 112, 032902.	3.3	1
49	Effect of neutron irradiation on rhenium cluster formation in tungsten and tungsten-rhenium alloys. <i>Journal of Nuclear Materials</i> , 2018, 507, 78-86.	2.7	47
50	Deuterium trapping at vacancy clusters in electron/neutron-irradiated tungsten studied by positron annihilation spectroscopy. <i>Journal of Nuclear Materials</i> , 2018, 499, 464-470.	2.7	27
51	Effect of carbon on boron diffusion and clustering in silicon: Temperature dependence study. <i>Journal of Applied Physics</i> , 2018, 124, 155702.	2.5	3
52	Contribution of irradiation-induced defects to hardening of a low-copper reactor pressure vessel steel. <i>Acta Materialia</i> , 2018, 155, 402-409.	7.9	35
53	On the Use of Density-Based Algorithms for the Analysis of Solute Clustering in Atom Probe Tomography Data. <i>Minerals, Metals and Materials Series</i> , 2018, , 881-897.	0.4	0
54	Reaction kinetic analysis of reactor surveillance data. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 393, 97-100.	1.4	2

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55	Influence of laser power on atom probe tomographic analysis of boron distribution in silicon. <i>Ultramicroscopy</i> , 2017, 173, 58-63.	1.9	21
56	Impact of local atomic stress on oxygen segregation at tilt boundaries in silicon. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	17
57	Atom probe tomographic assessment of the distribution of germanium atoms implanted in a silicon matrix through nano-apertures. <i>Nanotechnology</i> , 2017, 28, 385301.	2.6	3
58	Nanoscope analysis of oxygen segregation at tilt boundaries in silicon ingots using atom probe tomography combined with TEM and <i>ab initio</i> calculations. <i>Journal of Microscopy</i> , 2017, 268, 230-238.	1.8	13
59	Atom probe study of erbium and oxygen co-implanted silicon. , 2017, , .		3
60	Weak-beam scanning transmission electron microscopy for quantitative dislocation density measurement in steels. <i>Microscopy (Oxford, England)</i> , 2017, 66, 120-130.	1.5	10
61	154 ^{nm} photoluminescence from Er:O _x centers at extremely low concentration in silicon at 300K. <i>Optics Letters</i> , 2017, 42, 3311.	3.3	11
62	Roles of Solute C and Grain Boundary in Strain Aging Behaviour of Fine-grained Ultra-low Carbon Steel Sheets. <i>ISIJ International</i> , 2017, 57, 1273-1281.	1.4	14
63	Suppression of segregation of the phosphorus δ -doping layer in germanium by incorporation of carbon. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 031304.	1.5	3
64	Recombination activity of nickel, copper, and oxygen atoms segregating at grain boundaries in mono-like silicon crystals. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	24
65	Impact of carbon co-implantation on boron distribution and activation in silicon studied by atom probe tomography and spreading resistance measurements. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 026501.	1.5	15
66	Boron distributions in individual core-shell Ge/Si and Si/Ge heterostructured nanowires. <i>Nanoscale</i> , 2016, 8, 19811-19815.	5.6	11
67	Predoping effects of boron and phosphorous on arsenic diffusion along grain boundaries in polycrystalline silicon investigated by atom probe tomography. <i>Applied Physics Express</i> , 2016, 9, 106601.	2.4	1
68	Quantitative analysis of hydrogen in SiO ₂ /SiN/SiO ₂ stacks using atom probe tomography. <i>AIP Advances</i> , 2016, 6, .	1.3	13
69	The two-step nucleation of G-phase in ferrite. <i>Acta Materialia</i> , 2016, 116, 104-113.	7.9	78
70	Hole size distributions in cardo-based polymer membranes deduced from the lifetimes of ortho-positronium. <i>Journal of Physics: Conference Series</i> , 2016, 674, 012017.	0.4	6
71	Evolution of shape, size, and areal density of a single plane of Si nanocrystals embedded in SiO ₂ matrix studied by atom probe tomography. <i>RSC Advances</i> , 2016, 6, 3617-3622.	3.6	14
72	The effect of crystallographic mismatch on the obstacle strength of second phase precipitate particles in dispersion strengthening: bcc Nb particles and nanometric Nb clusters embedded in hcp Zr. <i>Acta Materialia</i> , 2016, 102, 323-332.	7.9	53

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73	Elemental Distribution in Multilayer Systems by Laser-Assisted Atom Probe Tomography with Various Analysis Directions. <i>Microscopy and Microanalysis</i> , 2015, 21, 1373-1378.	0.4	4
74	Nanoscope mechanism of Cu precipitation at small-angle tilt boundaries in Si. <i>Physical Review B</i> , 2015, 91, .	3.2	18
75	Three-dimensional evaluation of gettering ability for oxygen atoms at small-angle tilt boundaries in Czochralski-grown silicon crystals. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	14
76	Diffusivity and Solubility of Cu in a Reactor Pressure Vessel Steel Studied by Atom Probe Tomography. <i>Materials Transactions</i> , 2015, 56, 1513-1516.	1.2	2
77	Phosphorus and boron diffusion paths in polycrystalline silicon gate of a trench-type three-dimensional metal-oxide-semiconductor field effect transistor investigated by atom probe tomography. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	21
78	Microstructural evolution of RPV steels under proton and ion irradiation studied by positron annihilation spectroscopy. <i>Journal of Nuclear Materials</i> , 2015, 458, 326-334.	2.7	54
79	Hardening in thermally-aged Fe-Cr binary alloys: Statistical parameters of atomistic configuration. <i>Acta Materialia</i> , 2015, 89, 116-122.	7.9	13
80	Microstructural analysis of impurity segregation around δ -Nb precipitates in Zr-Nb alloy using positron annihilation spectroscopy and atom probe tomography. <i>Scripta Materialia</i> , 2015, 108, 156-159.	5.2	15
81	Reaction kinetic analysis of reactor surveillance data. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 352, 125-129.	1.4	3
82	Development of a mono-energetic positron beam line at the Kyoto University Research Reactor. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 342, 104-107.	1.4	17
83	Short and medium range order in two-component silica glasses by positron annihilation spectroscopy. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	10
84	Role of W and Mn for reliable 1X nanometer-node ultra-large-scale integration Cu interconnects proved by atom probe tomography. <i>Applied Physics Letters</i> , 2014, 105, 133512.	3.3	8
85	The diffusivity and solubility of copper in ferromagnetic iron at lower temperatures studied by atom probe tomography. <i>Scripta Materialia</i> , 2014, 83, 5-8.	5.2	16
86	Positron annihilation study for enhanced nitrogen-vacancy center formation in diamond by electron irradiation at 77K. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	6
87	Positron beam facility at Kyoto University Research Reactor. <i>Journal of Physics: Conference Series</i> , 2014, 505, 012030.	0.4	7
88	Behavior of phosphorous and contaminants from molecular doping combined with a conventional spike annealing method. <i>Nanoscale</i> , 2014, 6, 706-710.	5.6	45
89	Positron Annihilation in Cardo-Based Polymer Membranes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6007-6014.	2.6	25
90	Effects of neutron irradiation on microstructures and hardness of stainless steel weld-overlay cladding of nuclear reactor pressure vessels. <i>Journal of Nuclear Materials</i> , 2014, 449, 273-276.	2.7	25

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91	Effects of thermal aging on microstructure and hardness of stainless steel weld-overlay claddings of nuclear reactor pressure vessels. <i>Journal of Nuclear Materials</i> , 2014, 452, 235-240.	2.7	43
92	Effects of post-irradiation annealing and re-irradiation on microstructure in surveillance test specimens of the Loviisa-1 reactor studied by atom probe tomography and positron annihilation. <i>Journal of Nuclear Materials</i> , 2014, 449, 207-212.	2.7	14
93	Diffusivity and Solubility of Cu in a Reactor Pressure Vessel Steel Studied by Atom Probe Tomography. <i>Materials Transactions</i> , 2014, 55, 1460-1463.	1.2	0
94	Effect of neutron irradiation on the microstructure of the stainless steel electroslag weld overlay cladding of nuclear reactor pressure vessels. <i>Journal of Nuclear Materials</i> , 2013, 443, 266-273.	2.7	19
95	Microstructural changes in a Russian-type reactor weld material after neutron irradiation, post-irradiation annealing and re-irradiation studied by atom probe tomography and positron annihilation spectroscopy. <i>Acta Materialia</i> , 2013, 61, 5236-5246.	7.9	29
96	Three-Dimensional Dopant Characterization of Actual Metal-Oxide Semiconductor Devices of 65 nm Node by Atom Probe Tomography. <i>Applied Physics Express</i> , 2013, 6, 046502.	2.4	11
97	Three-Dimensional Characterization of Deuterium Implanted in Silicon Using Atom Probe Tomography. <i>Applied Physics Express</i> , 2013, 6, 066602.	2.4	17
98	Reaction of positronium with doped ions in silica-based glasses in the size determination of subnanometer structural open spaces. <i>Journal of Applied Physics</i> , 2013, 114, 154904.	2.5	2
99	Atomic-scale characterization of germanium isotopic multilayers by atom probe tomography. <i>Journal of Applied Physics</i> , 2013, 113, 026101.	2.5	15
100	Three-dimensional evaluation of gettering ability of $\{111\}$ grain boundaries in silicon by atom probe tomography combined with transmission electron microscopy. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	28
101	Positron annihilation study of the Mg-Zn-Y alloys with long period stacking ordered (LPSO) structures. <i>Journal of Physics: Conference Series</i> , 2013, 443, 012029.	0.4	7
102	Intergranular Segregation in the Pressure Vessel Steel of a Commercial Nuclear Reactor Studied by Atom Probe Tomography. <i>Materials Transactions</i> , 2013, 54, 2119-2124.	1.2	8
103	Elemental Distribution Analysis of Semiconductor Nanostructures with Atom Probe Tomography. <i>Journal of the Vacuum Society of Japan</i> , 2013, 56, 340-347.	0.3	0
104	Dopant characterization in self-regulatory plasma doped fin field-effect transistors by atom probe tomography. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	17
105	Size estimation of embedded Cu nanoprecipitates in Fe by using affinitively trapped positrons. <i>Physical Review B</i> , 2012, 86, .	3.2	13
106	Correlation between threshold voltage and channel dopant concentration in negative-type metal-oxide-semiconductor field-effect transistors studied by atom probe tomography. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	23
107	The effect of twist angle on anisotropic mobility of $\{110\}$ hexagonal dislocation networks in α -iron. <i>Scripta Materialia</i> , 2012, 66, 761-764.	5.2	25
108	Post-irradiation annealing behavior of microstructure and hardening of a reactor pressure vessel steel studied by positron annihilation and atom probe tomography. <i>Journal of Nuclear Materials</i> , 2012, 425, 65-70.	2.7	24

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109	Grain boundary segregation in neutron-irradiated 304 stainless steel studied by atom probe tomography. <i>Journal of Nuclear Materials</i> , 2012, 425, 71-75.	2.7	46
110	Microstructural changes of a thermally aged stainless steel submerged arc weld overlay cladding of nuclear reactor pressure vessels. <i>Journal of Nuclear Materials</i> , 2012, 425, 60-64.	2.7	41
111	Origin of characteristic variability in metal-oxide-semiconductor field-effect transistors revealed by three-dimensional atom imaging. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	39
112	Effect of electron- and neutron-irradiation on Fe-Cu model alloys studied by positron annihilation spectroscopy. <i>Journal of Physics: Conference Series</i> , 2011, 265, 012007.	0.4	6
113	Channel Dopant Distribution in Metal-oxide-semiconductor Field-Effect Transistors Analyzed by Laser-Assisted Atom Probe Tomography. <i>Applied Physics Express</i> , 2011, 4, 036601.	2.4	12
114	Three-Dimensional Elemental Analysis of Commercial 45 nm Node Device with High- k /Metal Gate Stack by Atom Probe Tomography. <i>Applied Physics Express</i> , 2011, 4, 116601.	2.4	13
115	Irradiation-induced precipitates in a neutron irradiated 304 stainless steel studied by three-dimensional atom probe. <i>Journal of Nuclear Materials</i> , 2011, 418, 62-68.	2.7	52
116	Study on microstructural changes in thermally-aged stainless steel weld-overlay cladding of nuclear reactor pressure vessels by atom probe tomography. <i>Journal of Nuclear Materials</i> , 2011, 415, 198-204.	2.7	37
117	Positron annihilation in Cr, Cu, and Au layers embedded in Al and quantum confinement of positrons in Au clusters. <i>Physical Review B</i> , 2011, 84, .	3.2	21
118	Impact of carbon coimplantation on boron behavior in silicon: Carbon-boron coclustering and suppression of boron diffusion. <i>Applied Physics Letters</i> , 2011, 98, 232101.	3.3	22
119	Time evolution of positron affinity trapping at embedded nanoparticles by age-momentum correlation. <i>Physical Review B</i> , 2011, 83, .	3.2	11
120	Delocalized Positronium in BaF_2 . <i>Journal of the Physical Society of Japan</i> , 2011, 80, 054709.	1.6	1
121	Depth and lateral resolution of laser-assisted atom probe microscopy of silicon revealed by isotopic heterostructures. <i>Journal of Applied Physics</i> , 2011, 109, 036102.	2.5	37
122	Irradiation-induced changes of the atomic distributions around the interfaces of carbides in a nuclear reactor pressure vessel steel. <i>Journal of Nuclear Materials</i> , 2010, 405, 177-180.	2.7	7
123	Use of the Frank-Bilby equation for calculating misfit dislocation arrays in interfaces. <i>Scripta Materialia</i> , 2010, 62, 458-461.	5.2	6
124	Hardening and microstructural evolution in A533B steels under neutron irradiation and a direct comparison with electron irradiation. <i>Journal of Nuclear Materials</i> , 2010, 400, 46-55.	2.7	15
125	Effects of chemical composition and dose on microstructure evolution and hardening of neutron-irradiated reactor pressure vessel steels. <i>Journal of Nuclear Materials</i> , 2010, 402, 93-101.	2.7	63
126	A crystallographic model of fcc/bcc martensitic nucleation and growth. <i>Acta Materialia</i> , 2010, 58, 1599-1606.	7.9	7

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127	Positron annihilation studies of the interaction between oxygen impurities and nanovoids in neutron-irradiated vanadium. <i>Acta Materialia</i> , 2010, 58, 1868-1875.	7.9	1
128	Atomic scale modeling of {110} twist grain boundaries in δ -iron: Structure and energy properties. <i>Philosophical Magazine</i> , 2010, 90, 991-1000.	1.6	27
129	Dopant distributions in n-MOSFET structure observed by atom probe tomography. <i>Ultramicroscopy</i> , 2009, 109, 1479-1484.	1.9	87
130	Positron annihilation characterization of nanostructured ferritic alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 518, 150-157.	5.6	35
131	3D-AP and positron annihilation study of precipitation behavior in Cu-Cr-Zr alloy. <i>Journal of Nuclear Materials</i> , 2009, 386-388, 852-855.	2.7	54
132	Quantization of the Frank-Bilby equation for misfit dislocation arrays in interfaces. <i>Acta Materialia</i> , 2009, 57, 4874-4881.	7.9	15
133	Shape deformation by moving a glissile interface with one set of misfit dislocations. <i>Philosophical Magazine Letters</i> , 2009, 89, 605-613.	1.2	5
134	Interactions between Fermi surfaces and Brillouin zone boundaries and phase stability of embedded metallic nanoparticles. <i>Physical Review B</i> , 2009, 79, .	3.2	8
135	Dopant distribution in gate electrode of n- and p-type metal-oxide-semiconductor field effect transistor by laser-assisted atom probe. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	56
136	Ultrasonic study of vacancy in single crystal silicon at low temperatures. <i>Journal of Physics: Conference Series</i> , 2009, 150, 042002.	0.4	1
137	A New Method for Size Estimation of Cu Nano-precipitates in Fe Based on Positron Quantum-dot Confinement. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2009, 95, 118-123.	0.4	3
138	Identification of ultra-fine Ti-rich precipitates in V-Cr-Ti alloys irradiated below 300°C by using positron CDB technique. <i>Journal of Nuclear Materials</i> , 2008, 373, 289-294.	2.7	12
139	Effects of neutron-irradiation-induced intergranular phosphorus segregation and hardening on embrittlement in reactor pressure vessel steels. <i>Acta Materialia</i> , 2008, 56, 4510-4521.	7.9	70
140	The effect of nanocrystallization and free volume on the room temperature plasticity of Zr-based bulk metallic glasses. <i>Acta Materialia</i> , 2008, 56, 5329-5339.	7.9	104
141	Monolayer segregation of As atoms at the interface between gate oxide and Si substrate in a metal-oxide-semiconductor field effect transistor by three-dimensional atom-probe technique. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	29
142	Interlaboratory comparison of positron annihilation lifetime measurements for synthetic fused silica and polycarbonate. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	39
143	Three dimensional characterization of dopant distribution in polycrystalline silicon by laser-assisted atom probe. <i>Applied Physics Letters</i> , 2008, 93, 133507.	3.3	20
144	Size-dependent momentum smearing effect of positron annihilation radiation in embedded nano Cu clusters. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 445203.	1.8	9

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145	Nanostructural Evolution of Cr-rich Precipitates in a Cu-Cr-Zr Alloy During Heat Treatment Studied by 3 Dimensional Atom Probe. Materials Transactions, 2008, 49, 518-521.	1.2	61
146	3DAP Observation of Precipitates in Cu-Cr-Zr Alloy Heat Sink Material for the Divertor. Materia Japan, 2008, 47, 634-634.	0.1	0
147	Temperature-activated transition of positronium from self-trapped to delocalized state in CaF_2 . Physical Review B, 2007, 76, .	3.2	9
148	Nanostructural evolution in surveillance test specimens of a commercial nuclear reactor pressure vessel studied by three-dimensional atom probe and positron annihilation. Acta Materialia, 2007, 55, 6852-6860.	7.9	78
149	Resolution deconvolution method applied to 2D-ACAR measurements. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3993-3996.	0.8	2
150	Digital positron lifetime spectrometer for measurements of radioactive materials. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 4001-4003.	0.8	7
151	Digital positron lifetime spectrometer for measurements of radioactive materials. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 716-722.	1.6	16
152	Quenched-in vacancies in a Ti-Nb-Sn alloy studied by positron lifetime spectroscopy. Scripta Materialia, 2006, 54, 1751-1753.	5.2	15
153	Hardening and microstructural evolution in A533B steels under high-dose electron irradiation. Journal of Nuclear Materials, 2005, 340, 247-258.	2.7	38
154	Nonpolar optical scattering of positronium in magnesium fluoride. Physical Review B, 2005, 72, .	3.2	7
155	Irradiation-induced vacancy and Cu aggregations in Fe-Cu model alloys of reactor pressure vessel steels: state-of-the-art positron annihilation spectroscopy. Philosophical Magazine, 2005, 85, 467-478.	1.6	16
156	Self-Energy Correction to Momentum-Density Distribution of Positron-Electron Pairs. Physical Review Letters, 2005, 94, 106402.	7.8	8
157	Positronium in a SrF_2 single crystal: Temperature-induced transition from the localized to the delocalized state. Physical Review B, 2005, 71, .	3.2	8
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