Jan Kuriplach

List of Publications by Year in descending order

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Ιλνι Κιιριριλομ

#	Article	IF	CITATIONS
1	Study of Rechargeable Batteries Using Advanced Spectroscopic and Computational Techniques. Condensed Matter, 2021, 6, 26.	1.8	1
2	First-Principles Study of the Impact of Grain Boundary Formation in the Cathode Material LiFePO4. Condensed Matter, 2019, 4, 80.	1.8	8
3	Microstructure and Room Temperature Mechanical Properties of Different 3 and 4 Element Medium Entropy Alloys from HfNbTaTiZr System. Entropy, 2019, 21, 114.	2.2	46
4	Defects in the high entropy alloy HfNbTaTiZr prepared by spark plasma sintering. AIP Conference Proceedings, 2019, , .	0.4	2
5	Mössbauer Spectroscopy of Triphylite (LiFePO4) at Low Temperatures. Condensed Matter, 2019, 4, 86.	1.8	7
6	Spark plasma sintering of gas atomized high-entropy alloy HfNbTaTiZr. Journal of Materials Research, 2018, 33, 3247-3257.	2.6	26
7	On the empirical determination of positron trapping coefficient at nano-scale helium bubbles in steels irradiated in spallation target. Journal of Nuclear Materials, 2018, 504, 277-280.	2.7	18
8	Electronic structure probed with positronium: Theoretical viewpoint. AIP Conference Proceedings, 2018, , .	0.4	0
9	Parameter-Free Gradient Correction for Positron States in Oxides. Defect and Diffusion Forum, 2017, 373, 35-40.	0.4	4
10	Advanced characterization of lithium battery materials with positrons. Journal of Physics: Conference Series, 2017, 791, 012016.	0.4	6
11	Angle-Resolved Spectroscopy of Positronium Emission from a Cu(110) Surface. Physical Review Letters, 2016, 117, 216402.	7.8	24
12	Coincidence Doppler broadening study of Eurofer 97 irradiated in spallation environment. Journal of Nuclear Materials, 2015, 458, 350-354.	2.7	21
13	Proposed Parameter-Free Model for Interpreting the Measured Positron Annihilation Spectra of Materials Using a Generalized Gradient Approximation. Physical Review Letters, 2015, 114, 147401.	7.8	38
14	Helium behavior in ferritic/martensitic steels irradiated in spallation target. Journal of Nuclear Materials, 2015, 456, 382-388.	2.7	37
15	Comparison of Grain Boundary Structure in Metals and Semiconductors as Probed by Positrons. Acta Physica Polonica A, 2014, 125, 722-725.	0.5	4
16	Improved generalized gradient approximation for positron states in solids. Physical Review B, 2014, 89, .	3.2	51
17	Characterization of helium implanted Fe–Cr alloys by means of positron annihilation methods. Journal of Nuclear Materials, 2014, 450, 54-58.	2.7	33
18	Gradient correction scheme for bulk and defect positron states in materials: New developments. Journal of Physics: Conference Series, 2014, 505, 012040.	0.4	14

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19	Structure of Defects, their Interactions and Positron Characteristics in Fe3 Alsystem. Physics Procedia, 2012, 35, 69-74.	1.2	4
20	Activities towards <i>p</i> -type doping of ZnO. Journal of Physics: Conference Series, 2011, 265, 012002.	0.4	23
21	Characterization of point defects in yttria stabilized zirconia single crystals. Journal of Physics: Conference Series, 2011, 262, 012038.	0.4	2
22	Quenched-in vacancies in Fe ₃ Al based alloys: a positron annihilation study. Journal of Physics: Conference Series, 2011, 265, 012016.	0.4	1
23	Quenched-in vacancies in Fe-Al alloys. Journal of Physics: Conference Series, 2011, 262, 012039.	0.4	2
24	Positron annihilation study of yttria-stabilized zirconia nanopowders containing Cr ₂ O ₃ additive. Journal of Physics: Conference Series, 2011, 265, 012020.	0.4	6
25	Grain boundary segregation in low Cr Fe–Cr alloys: The effect of radiation induced vacancies studied by metropolis Monte Carlo simulations. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1679-1683.	1.4	8
26	Simulation of properties of positrons trapped at Cu nanoparticles in Fe matrix. Journal of Physics: Conference Series, 2011, 265, 012021.	0.4	0
27	Characterization of microstructural defects in melt grown ZnO single crystals. Journal of Applied Physics, 2011, 109, .	2.5	19
28	Investigation of hydrogen interaction with defects in zirconia. Journal of Physics: Conference Series, 2010, 225, 012035.	0.4	6
29	Defect studies of nanocrystalline zirconia powders and sintered ceramics. Physical Review B, 2010, 81,	3.2	68
30	Structural characterization of H plasmaâ€doped ZnO single crystals by positron annihilation spectroscopies. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2415-2425.	1.8	10
31	Positron annihilation study of vacancies in Fe–Al based alloys. Intermetallics, 2010, 18, 592-598.	3.9	19
32	Structure and strength of ã€^110〉 tilt grain boundaries in bcc Fe: An atomistic study. Computational Materials Science, 2010, 49, 419-429.	3.0	55
33	Identification of Zn-vacancy–hydrogen complexes in ZnO single crystals: A challenge to positron annihilation spectroscopy. Physical Review B, 2009, 79, .	3.2	117
34	Investigation of Interaction of Hydrogen with Defects in Zirconia. Materials Research Society Symposia Proceedings, 2009, 1216, 1.	0.1	1
35	Quenchedâ€in vacancies in Feâ€Al alloys. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2367-2369.	0.8	3
36	Characterization of ZnO nanostructures: A challenge to positron annihilation spectroscopy and other methods. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2556-2560.	0.8	11

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37	Sintering of yttriaâ€stabilized zirconia nanopowders studied by positron annihilation spectroscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2582-2584.	0.8	4
38	Simulation of positron annihilation response to mechanical deformation of nanostructured Ni3Al. Applied Surface Science, 2008, 255, 157-159.	6.1	5
39	Positron annihilation in vacancies at grain boundaries in metals. Applied Surface Science, 2008, 255, 128-131.	6.1	9
40	Defect studies of ZnO single crystals electrochemically doped with hydrogen. Journal of Applied Physics, 2008, 103, .	2.5	50
41	Comparative characterization of differently grown ZnO single crystals by positron annihilation and Hall effect. Superlattices and Microstructures, 2007, 42, 259-264.	3.1	19
42	Positron lifetimes in ZnO single crystals. Vacuum, 2007, 81, 1314-1317.	3.5	17
43	Basic positron properties of oxides: A computational study. Radiation Physics and Chemistry, 2007, 76, 101-105.	2.8	4
44	Characterization of various crystalline structures at the SiO2/Si interface by positrons. Radiation Physics and Chemistry, 2007, 76, 195-199.	2.8	1
45	Defects in N+ion-implanted ZnO single crystals studied by positron annihilation and Hall effect. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3642-3645.	0.8	2
46	Doppler broadening of positron annihilation radiation as a probe for the anisotropy of free-volume-holes in polymers. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3755-3758.	0.8	2
47	Positron annihilation at grain boundaries in metals. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3461-3464.	0.8	6
48	Positron lifetime calculations for stacking fault tetrahedra in copper. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3514-3517.	0.8	3
49	Positron annihilation in structural vacancies in Alâ€rich NiAl alloys. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3534-3537.	0.8	0
50	Defects in yttriaâ€stabilised zirconia: a positron annihilation study. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3847-3850.	0.8	8
51	Positron annihilation in three zirconia polymorphs. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3831-3834.	0.8	16
52	Hyperfine interactions in lutetium iron garnet. Journal of Applied Physics, 2006, 99, 08M903.	2.5	5
53	Vacancy–solute complexes in aluminum. Applied Surface Science, 2006, 252, 3285-3289	6.1	12
54	Vacancy-solute complexes and their clusters in iron. Applied Surface Science, 2006, 252, 3303-3308.	6.1	32

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55	Characterization of a SiC/SiC composite by X-ray diffraction, atomic force microscopy and positron spectroscopies. Applied Surface Science, 2006, 252, 3342-3351.	6.1	6
56	Defects in virgin andN+-implanted ZnO single crystals studied by positron annihilation, Hall effect, and deep-level transient spectroscopy. Physical Review B, 2006, 74, .	3.2	135
57	Characterization of defects in a martensitic CuAlNi shape-memory alloy. Applied Physics A: Materials Science and Processing, 2005, 81, 1039-1044.	2.3	5
58	Annealing process in quenched Al-Sn alloys:â \in fA positron annihilation study. Physical Review B, 2005, 71, .	3.2	21
59	Investigation of Defects in Copper Alloys Selected for Nuclear Fusion Technology. Materials Science Forum, 2004, 445-446, 183-185.	0.3	2
60	Characterisation of Defects in Simulated Nanostructures. Materials Science Forum, 2004, 445-446, 204-206.	0.3	2
61	Slow Positron Beam Investigations of Defects Caused by B ⁺ Implantation into Epitaxial 6H-SiC. Materials Science Forum, 2004, 445-446, 36-38.	0.3	4
62	Theoretical Study of Positron Annihilation in Nanoclusters in Al-Cu System. Materials Science Forum, 2004, 445-446, 132-134.	0.3	7
63	Positron annihilation Investigations of defects in copper alloys selected for nuclear fusion technology. Fusion Engineering and Design, 2004, 70, 141-153.	1.9	11
64	Hyperfine interactions of 155Gd and 157Gd in gadolinium iron garnet. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1689-E1690.	2.3	0
65	Hydrogen implantation effect in copper alloys selected for ITER investigated by positron annihilation spectroscopy. Nuclear Fusion, 2004, 44, 93-97.	3.5	8
66	Comment on "Identification of Lattice Vacancies on the Two Sublattices of SiC― Physical Review Letters, 2003, 91, 199601; discussion 199602.	7.8	6
67	Positron confinement in embedded lithium nanoclusters. Physical Review B, 2002, 65, .	3.2	38
68	Thermal stability of ultrafine grained copper. Physical Review B, 2002, 65, .	3.2	106
69	Characterization of theSiO2/Siinterface by positron annihilation spectroscopy. Physical Review B, 2002, 66, .	3.2	28
70	Hyperfine interaction of 155Gd in gadolinium iron garnet. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 763-765.	2.3	1
71	Positron-defect interactions in complex systems. Applied Surface Science, 2002, 194, 61-70.	6.1	16
72	Positron characteristics of various SiO2 polymorphs. Applied Surface Science, 2002, 194, 84-88.	6.1	12

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73	Positron Annihilation in Ni ₃ Al: Theory and Experiment. Materials Science Forum, 2001, 363-365, 210-212.	0.3	7
74	Positron Annihilation Study of Nanocrystalline Ni ₃ Al: Simulations and Measurements. Materials Science Forum, 2001, 363-365, 94-96.	0.3	9
75	Simulation of Positron Characteristics in Nanocryartalline Materials. Materials Research Society Symposia Proceedings, 2000, 634, 381.	0.1	2
76	Calculation Of Positron Characteristics In Silicon Carbide. Materials Research Society Symposia Proceedings, 2000, 640, 1.	0.1	1
77	Hyperfine enhanced nuclear magnetism. Physica B: Condensed Matter, 2000, 284-288, 1696-1697.	2.7	0
78	Magnetic Anisotropy of PrNi5 Single Crystal at Millikelvins. Journal of Low Temperature Physics, 2000, 120, 435-448.	1.4	2
79	Calculation of Magnetic Properties and Specific Heat for the Nuclear Enhanced Ferromagnet PrNi5. Journal of Low Temperature Physics, 2000, 120, 401-434.	1.4	2
80	Characterization of rf-sputtered platinum films by positron annihilation spectroscopy. Physical Review B, 2000, 62, 5199-5206.	3.2	9
81	Positron energy levels in semiconductors. Physical Review B, 2000, 61, 15848-15853.	3.2	24
82	Positron affinity in semiconductors: Theoretical and experimental studies. Physical Review B, 1999, 59, 1948-1955.	3.2	48
83	Density functional calculation of the crystal field interaction in rare earth cuprates. Physica C: Superconductivity and Its Applications, 1998, 301, 23-28.	1.2	14
84	Study of the Mg-Cd system by positron annihilation methods. Journal of Physics Condensed Matter, 1998, 10, 6573-6584.	1.8	9
85	Vacancies and vacancy-oxygen complexes in silicon: Positron annihilation with core electrons. Physical Review B, 1998, 58, 10475-10483.	3.2	55
86	Tb magnetic moment behaviour in a Gd single crystal: nuclear orientation study. Journal of Physics Condensed Matter, 1998, 10, 7467-7474.	1.8	0
87	Study of Point Defects in Silicon by Means of Positron Annihilation with Core Electrons. Materials Science Forum, 1997, 255-257, 605-607.	0.3	5
88	Some aspects of the interactions of orthopositronium with perfect and defect surfaces of insulating materials. Journal of Radioanalytical and Nuclear Chemistry, 1996, 210, 293-308.	1.5	11
89	Density functional theory of the crystal field in dioxides. European Physical Journal D, 1996, 46, 1929-1930.	0.4	1
90	Anisotropy of the hyperfine enhanced nuclear ferromagnet PrNi5. European Physical Journal D, 1996, 46, 2215-2216.	0.4	4

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91	Evaluation of some basic positron-related characteristics of SiC. Physical Review B, 1996, 54, 2512-2517.	3.2	89
92	Crystal field in rare earth intermetallics with CsCl structure. Physica B: Condensed Matter, 1995, 205, 353-364.	2.7	39
93	Ab initio calculations of crystal field in MAl2(M î—» La, Y, Sc) Laves phases. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1117-1118.	2.3	8
94	Ab initio calculation of crystal field parameters in several RT/sub 5/ (R=rare earth; T=Co, Ni) compounds. IEEE Transactions on Magnetics, 1994, 30, 1036-1038.	2.1	14
95	Calculation of crystal-field parameters in theRNi5(R=rare earth) system. Physical Review B, 1994, 50, 2085-2089.	3.2	33
96	Comments on time-differential perturbed angular correlation functions for static axial electric quadrupole interaction. Hyperfine Interactions, 1994, 88, 13-18.	0.5	0
97	Electronic structure and crystal field in REMg and RERh (RE = rare earth) intermetallics. Physica B: Condensed Matter, 1993, 183, 25-32.	2.7	16
98	Magnetic behaviour of Tb impurities in Gd andY single crystals: a nuclear orientation study. Hyperfine Interactions, 1993, 78, 501-504.	0.5	1
99	Calculation of the crystal-field parameters, electric field gradient and magnetic moments in PrNi5. Journal of Physics Condensed Matter, 1993, 5, 8417-8424.	1.8	5
100	CALCULATION OF ELECTRIC FIELD GRADIENT AND CRYSTAL FIELD PARAMETERS IN RARE EARTH METALS. International Journal of Modern Physics B, 1993, 07, 609-613.	2.0	3
101	Calculation of crystal-field parameters in rare-earth metals. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1499-1500.	2.3	13
102	Temperature dependence of57Fe hyperfine field in Gd: YIG. Hyperfine Interactions, 1990, 59, 493-496.	0.5	3
103	Nuclear orientation study of160Tb impurity in gadolinium single crystal. Hyperfine Interactions, 1990, 59, 497-500.	0.5	2
104	Nuclear orientation study of160Tb impurity in yttrium single crystal. Hyperfine Interactions, 1990, 59, 501-504.	0.5	2
105	160Tb nuclear orientation in yttrium single crystal. Hyperfine Interactions, 1987, 34, 339-342.	0.5	3
106	Vacancy-Hydrogen Complexes in ZnO. Materials Science Forum, 0, 607, 117-121.	0.3	2
107	Structure and Positron Characteristics of Basic Open Volume Defects in Zirconia. Materials Science Forum, 0, 607, 125-127.	0.3	3
108	Positron Annihilation at Planar Defects in Oxides. Materials Science Forum, 0, 733, 240-244.	0.3	3

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109	Defect Behaviour in Yttria-Stabilised Zirconia Nanomaterials Studied by Positron Annihilation Techniques. Defect and Diffusion Forum, 0, 331, 181-199.	0.4	7