

Oksana Melikhova

List of Publications by Year in descending order

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1391
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#	ARTICLE	IF	CITATIONS
1	Effect of deformation on evolution of Al ₃ (Er,Zr) precipitates in Al–Er–Zr-based alloy. <i>Materials Characterization</i> , 2022, 186, 111781.	1.9	14
2	Thermal Stability of Microstructure of High-Entropy Alloys Based on Refractory Metals Hf, Nb, Ta, Ti, V, and Zr. <i>Metals</i> , 2022, 12, 394.	1.0	3
3	Oxidation of amorphous HfNbTaTiZr high entropy alloy thin films prepared by DC magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2021, 869, 157978.	2.8	24
4	Effect of roughness and nanoporosity on optical properties of black and reflective Al films prepared by magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2021, 872, 159744.	2.8	11
5	The Effect of Processing Route on Properties of HfNbTaTiZr High Entropy Alloy. <i>Materials</i> , 2019, 12, 4022.	1.3	20
6	Natural and artificial aging in Mg-Gd binary alloys. <i>Journal of Alloys and Compounds</i> , 2018, 738, 173-181.	2.8	16
7	Spark plasma sintering of gas atomized high-entropy alloy HfNbTaTiZr. <i>Journal of Materials Research</i> , 2018, 33, 3247-3257.	1.2	26
8	Heat treatment and age hardening of Al–Si–Mg–Mn commercial alloy with addition of Sc and Zr. <i>Materials Characterization</i> , 2017, 129, 1-8.	1.9	55
9	Hydrogen-Induced Defects in Titanium. <i>Defect and Diffusion Forum</i> , 2017, 373, 122-125.	0.4	6
10	Study of Defects in High Energy Ion Implanted ZnO Crystals. <i>Defect and Diffusion Forum</i> , 2017, 373, 193-196.	0.4	0
11	Point defects in ZnO crystals grown by various techniques. <i>Journal of Physics: Conference Series</i> , 2017, 791, 012017.	0.3	4
12	Monitoring of grinding burn via Barkhausen noise emission in case-hardened steel in large-bearing production. <i>Journal of Materials Processing Technology</i> , 2017, 240, 104-117.	3.1	78
13	Positron annihilation study of cavities in black Au films. <i>Journal of Physics: Conference Series</i> , 2017, 791, 012018.	0.3	4
14	Characterization of defects in titanium created by hydrogen charging. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22557-22563.	3.8	17
15	Defect studies of zirconia implanted by high energy Xe ions. <i>Journal of Physics: Conference Series</i> , 2016, 674, 012016.	0.3	0
16	Spatial distribution of defects in ultra fine grained copper prepared by high pressure torsion. <i>Journal of Physics: Conference Series</i> , 2016, 674, 012001.	0.3	1
17	Positron annihilation spectroscopy of vacancy-related defects in CdTe:Cl and CdZnTe:Ge at different stoichiometry deviations. <i>Scientific Reports</i> , 2016, 6, 20641.	1.6	22
18	Characterisation of irradiation-induced defects in ZnO single crystals. <i>Journal of Physics: Conference Series</i> , 2016, 674, 012014.	0.3	2

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19	Early stages of precipitation in Mg-RE alloys studied by positron annihilation spectroscopy. Journal of Physics: Conference Series, 2016, 674, 012004.	0.3	1
20	Effects in Mg-Zn-based alloys strengthened by quasicrystalline phase. Journal of Physics: Conference Series, 2016, 674, 012005.	0.3	1
21	Defect studies of Mg films deposited on various substrates. Journal of Physics: Conference Series, 2016, 674, 012024.	0.3	0
22	Effect of hydrogen on generation of lattice defects in shock-loaded Pd. Journal of Alloys and Compounds, 2015, 645, S472-S475.	2.8	4
23	The Effect of Heat Treatment on Morphology and Phase Composition of Grain Boundary Phases in Mg-Zn-Y-Nd-Zr. Defect and Diffusion Forum, 2015, 365, 30-35.	0.4	0
24	Hydrogen Trapping at Defects in Pd and Thermally Activated Desorption. Defect and Diffusion Forum, 2015, 365, 36-41.	0.4	1
25	Hydrogen-induced defects and multiplication of dislocations in Palladium. Journal of Alloys and Compounds, 2015, 645, S312-S315.	2.8	14
26	Hydrogen-Induced Hardening in Palladium. Defect and Diffusion Forum, 2015, 365, 297-304.	0.4	1
27	Early Stages of Precipitation Process in Al-(Mn)-Sc-Zr Alloy Characterized by Positron Annihilation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1556-1564.	1.1	14
28	Origin of green luminescence in hydrothermally grown ZnO single crystals. Applied Physics Letters, 2015, 106, .	1.5	85
29	Structural studies of thin Mg films. Journal of Physics: Conference Series, 2014, 505, 012024.	0.3	5
30	Modification of steel surfaces induced by turning: non-destructive characterization using Barkhausen noise and positron annihilation. Journal Physics D: Applied Physics, 2014, 47, 445301.	1.3	39
31	Precipitation Effects in Mg-Zn Alloys Studied by Positron Annihilation and Hardness Testing. Acta Physica Polonica A, 2014, 125, 718-721.	0.2	2
32	Investigation of Precipitation Effects in Mg-Tb and Mg-Tb-Nd Alloys. Acta Physica Polonica A, 2014, 125, 744-747.	0.2	2
33	Hydrogen-Induced Defects in Palladium. Acta Physica Polonica A, 2014, 125, 752-755.	0.2	8
34	Defects Studies of ZnO Single Crystals Prepared by Various Techniques. Acta Physica Polonica A, 2014, 125, 748-751.	0.2	7
35	Defects in Zirconia Nanomaterials Doped with Rare-Earth Oxides. Acta Physica Polonica A, 2014, 125, 760-763.	0.2	7
36	Sintering of zirconia-based nanomaterials studied by variable-energy slow-positron beam. Journal of Physics: Conference Series, 2014, 505, 012020.	0.3	1

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37	Positron Annihilation Study of Zirconia Nanopowders and Nanoceramics Stabilized by Magnesia and Ceria. <i>Journal of the American Ceramic Society</i> , 2014, 97, 982-989.	1.9	9
38	Structural studies of thin Pd films loaded with hydrogen. <i>Journal of Physics: Conference Series</i> , 2014, 505, 012015.	0.3	0
39	Positron annihilation in flight: experiment with slow and fast positrons. <i>Journal of Physics: Conference Series</i> , 2014, 505, 012043.	0.3	1
40	Kuznets Inverted U-Curve Hypothesis Examined on Up-To Date Observations for 145 Countries. <i>Prague Economic Papers</i> , 2014, 23, 388-410.	0.2	3
41	Positron annihilation studies of zirconia doped with metal cations of different valence. <i>Journal of Physics: Conference Series</i> , 2013, 443, 012026.	0.3	1
42	Hydrogen absorption and diffusivity in ZnO single crystals. <i>Journal of Alloys and Compounds</i> , 2013, 580, S51-S54.	2.8	5
43	Hydrogen absorption in thin ZnO films prepared by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , 2013, 580, S40-S43.	2.8	9
44	Hydrogen-induced microstructural changes of Pd films. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12115-12125.	3.8	22
45	Vacancy clusters in ultra fine grained metals prepared by severe plastic deformation. <i>Journal of Physics: Conference Series</i> , 2013, 443, 012008.	0.3	40
46	Defect studies of ZnO films prepared by pulsed laser deposition on various substrates. <i>Journal of Physics: Conference Series</i> , 2013, 443, 012018.	0.3	1
47	Defect Studies of Yttria Stabilized Zirconia with Chromia Additive. <i>Physics Procedia</i> , 2012, 35, 134-139.	1.2	10
48	Natural aging of Mg-Gd and Mg-Tb alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2135-2141.	0.8	8
49	Microstructure Development and Lateral Distribution of Defects in Ultra-fine Grained Copper Prepared by High-pressure Torsion. <i>Physics Procedia</i> , 2012, 35, 4-9.	1.2	0
50	Characterization of point defects in yttria stabilized zirconia single crystals. <i>Journal of Physics: Conference Series</i> , 2011, 262, 012038.	0.3	2
51	Quenched-in vacancies in Fe ₃ Al based alloys: a positron annihilation study. <i>Journal of Physics: Conference Series</i> , 2011, 265, 012016.	0.3	1
52	Quenched-in vacancies in Fe-Al alloys. <i>Journal of Physics: Conference Series</i> , 2011, 262, 012039.	0.3	2
53	Homogeneity of ultrafine-grained copper deformed by high-pressure torsion characterized by positron annihilation and microhardness. <i>Scripta Materialia</i> , 2011, 65, 171-174.	2.6	15
54	Positron annihilation study of yttria-stabilized zirconia nanopowders containing Cr ₂ O ₃ additive. <i>Journal of Physics: Conference Series</i> , 2011, 265, 012020.	0.3	6

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55	Thermal vacancies in Fe ₃ Al studied by positron annihilation. <i>Acta Materialia</i> , 2011, 59, 4068-4078.	3.8	20
56	Simulation of properties of positrons trapped at Cu nanoparticles in Fe matrix. <i>Journal of Physics: Conference Series</i> , 2011, 265, 012021.	0.3	0
57	Investigation of hydrogen interaction with defects in zirconia. <i>Journal of Physics: Conference Series</i> , 2010, 225, 012035.	0.3	6
58	Defect studies of nanocrystalline zirconia powders and sintered ceramics. <i>Physical Review B</i> , 2010, 81, .	1.1	68
59	Positron annihilation study of vacancies in Fe-Al based alloys. <i>Intermetallics</i> , 2010, 18, 592-598.	1.8	19
60	Investigation of Interaction of Hydrogen with Defects in Zirconia. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1216, 1.	0.1	1
61	Quenched-in vacancies in Fe-Al alloys. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2367-2369.	0.8	3
62	Hydrogen-induced defects in Pd films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2364-2366.	0.8	6
63	Sintering of yttria-stabilized zirconia nanopowders studied by positron annihilation spectroscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2582-2584.	0.8	4
64	Internal stress and mechanical deformation of Al and Al/Ni multilayered nanowires. <i>Acta Materialia</i> , 2009, 57, 453-465.	3.8	9
65	Simulation of positron annihilation response to mechanical deformation of nanostructured Ni ₃ Al. <i>Applied Surface Science</i> , 2008, 255, 157-159.	3.1	5
66	Positron annihilation in vacancies at grain boundaries in metals. <i>Applied Surface Science</i> , 2008, 255, 128-131.	3.1	9
67	Mechanical properties of AgCo nanostructured nanowires. <i>Computer Physics Communications</i> , 2008, 179, 102-106.	3.0	4
68	Mechanical properties of bimetallic crystalline and nanostructured nanowires. <i>Faraday Discussions</i> , 2008, 138, 59-74.	1.6	3
69	Positron annihilation study of hydrogen trapping at open-volume defects: Comparison of nanocrystalline and epitaxial Nb thin films. <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 484-488.	2.8	6
70	Comparative characterization of differently grown ZnO single crystals by positron annihilation and Hall effect. <i>Superlattices and Microstructures</i> , 2007, 42, 259-264.	1.4	19
71	Positron lifetimes in ZnO single crystals. <i>Vacuum</i> , 2007, 81, 1314-1317.	1.6	17
72	Basic positron properties of oxides: A computational study. <i>Radiation Physics and Chemistry</i> , 2007, 76, 101-105.	1.4	4

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73	Characterization of various crystalline structures at the SiO ₂ /Si interface by positrons. Radiation Physics and Chemistry, 2007, 76, 195-199.	1.4	1
74	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
75	Defect studies of hydrogen loaded Nb: bulk metals and thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3485-3488.	0.8	3
76	Positron annihilation at grain boundaries in metals. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3461-3464.	0.8	6
77	Defects in yttria-stabilised zirconia: a positron annihilation study. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3847-3850.	0.8	8
78	Positron annihilation in three zirconia polymorphs. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3831-3834.	0.8	16
79	Vacancy-solute complexes in aluminum. Applied Surface Science, 2006, 252, 3285-3289.	3.1	12
80	Vacancy-solute complexes and their clusters in iron. Applied Surface Science, 2006, 252, 3303-3308.	3.1	32
81	Defects in nanocrystalline Nb films: Effect of sputtering temperature. Applied Surface Science, 2006, 252, 3245-3251.	3.1	3
82	Defects in virgin and N ⁺ -implanted ZnO single crystals studied by positron annihilation, Hall effect, and deep-level transient spectroscopy. Physical Review B, 2006, 74, .	1.1	135
83	Annealing process in quenched Al-Sn alloys: a positron annihilation study. Physical Review B, 2005, 71, .	1.1	21
84	Thermal stability of ultrafine grained copper. Physical Review B, 2002, 65, .	1.1	106
85	Investigation of spatial distribution of defects in ultra-fine grained copper. Applied Surface Science, 2002, 194, 140-144.	3.1	10
86	Vacancy-Hydrogen Complexes in ZnO. Materials Science Forum, 0, 607, 117-121.	0.3	2
87	Structure and Positron Characteristics of Basic Open Volume Defects in Zirconia. Materials Science Forum, 0, 607, 125-127.	0.3	3
88	Influence of Deformation on Precipitation Kinetics in Mg-Tb Alloy. Defect and Diffusion Forum, 0, 322, 151-162.	0.4	4
89	Inhibition of Positronium Formation in Yttria Stabilized Zirconia Nanopowders Modified by Addition of Chromia. Materials Science Forum, 0, 733, 249-253.	0.3	2
90	Positron Annihilation at Planar Defects in Oxides. Materials Science Forum, 0, 733, 240-244.	0.3	3

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91	Defect Behaviour in Yttria-Stabilised Zirconia Nanomaterials Studied by Positron Annihilation Techniques. Defect and Diffusion Forum, 0, 331, 181-199.	0.4	7
92	Effect of Sintering on Defects in Yttria Stabilised Zirconia. Materials Science Forum, 0, 733, 236-239.	0.3	2
93	Hydrogen Interaction with Defects in Nanocrystalline, Polycrystalline and Epitaxial Pd Films. Journal of Nano Research, 0, 26, 123-133.	0.8	4
94	Diffusion Processes in Early Stages of Precipitation in Mg-Gd and Mg-Tb Alloys. Defect and Diffusion Forum, 0, 333, 51-60.	0.4	0
95	Diffusion Processes in the Sintering of Zirconia-Based Nanomaterials. Journal of Nano Research, 0, 26, 25-31.	0.8	0
96	Defects and Sintering-Induced Diffusion Processes in Yttria-Stabilised Zirconia Nanomaterials Studied by Positron Annihilation Spectroscopy. , 0, 1, 155-172.		2
97	Influence of Natural Ageing on Precipitation Processes during Isochronal Annealing in MgGd Alloys. Defect and Diffusion Forum, 0, 365, 42-48.	0.4	3
98	Characterisation of Porosity in Zirconia-Based Nanopowders. Defect and Diffusion Forum, 0, 373, 295-298.	0.4	2
99	Characterization of Lattice Defects in Refractory Metal High-Entropy Alloy HfNbTaTiZr by Means of Positron Annihilation Spectroscopy. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100840.	0.8	1