Oksana Melikhova

List of Publications by Year
in descending order

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99 papers	1,223 citations	471371 17 h-index	434063 31 g-index
99 all docs	99 docs citations	99 times ranked	1391 citing authors

#	Article	IF	Citations
1	Defects in virgin andN+-implanted ZnO single crystals studied by positron annihilation, Hall effect, and deep-level transient spectroscopy. Physical Review B, 2006, 74, .	1.1	135
2	Thermal stability of ultrafine grained copper. Physical Review B, 2002, 65, .	1.1	106
3	Origin of green luminescence in hydrothermally grown ZnO single crystals. Applied Physics Letters, 2015, 106, .	1.5	85
4	Monitoring of grinding burn via Barkhausen noise emission in case-hardened steel in large-bearing production. Journal of Materials Processing Technology, 2017, 240, 104-117.	3.1	78
5	Defect studies of nanocrystalline zirconia powders and sintered ceramics. Physical Review B, 2010, 81, .	1.1	68
6	Heat treatment and age hardening of Alâ€“Siâ€“Mgâ€“Mn commercial alloy with addition of Sc and Zr. Materials Characterization, 2017, 129, 1-8.	1.9	55
7	Vacancy clusters in ultra fine grained metals prepared by severe plastic deformation. Journal of Physics: Conference Series, 2013, 443, 012008.	0.3	40
8	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
9	Vacancy-solute complexes and their clusters in iron. Applied Surface Science, 2006, 252, 3303-3308.	3.1	32
10	Spark plasma sintering of gas atomized high-entropy alloy HfNbTaTiZr. Journal of Materials Research, 2018, 33, 3247-3257.	1.2	26
11	Oxidation of amorphous HfNbTaTiZr high entropy alloy thin films prepared by DC magnetron sputtering. Journal of Alloys and Compounds, 2021, 869, 157978.	2.8	24
12	Hydrogen-induced microstructural changes of Pd films. International Journal of Hydrogen Energy, 2013, 38, 12115-12125.	3.8	22
13	Positron annihilation spectroscopy of vacancy-related defects in CdTe:Cl and CdZnTe:Ge at different stoichiometry deviations. Scientific Reports, 2016, 6, 20641.	1.6	22
14	Annealing process in quenched Al-Sn alloys:â€ƒA positron annihilation study. Physical Review B, 2005, 71, .	1.1	21
15	Thermal vacancies in Fe3Al studied by positron annihilation. Acta Materialia, 2011, 59, 4068-4078.	3.8	20
16	The Effect of Processing Route on Properties of HfNbTaTiZr High Entropy Alloy. Materials, 2019, 12, 4022.	1.3	20
17	Comparative characterization of differently grown ZnO single crystals by positron annihilation and Hall effect. Superlattices and Microstructures, 2007, 42, 259-264.	1.4	19
18	Positron annihilation study of vacancies in Feâ€“Al based alloys. Intermetallics, 2010, 18, 592-598.	1.8	19

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19	Positron lifetimes in ZnO single crystals. Vacuum, 2007, 81, 1314-1317.	1.6	17
20	Characterization of defects in titanium created by hydrogen charging. International Journal of Hydrogen Energy, 2017, 42, 22557-22563.	3.8	17
21	Positron annihilation in three zirconia polymorphs. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3831-3834.	0.8	16
22	Natural and artificial aging in Mg-Gd binary alloys. Journal of Alloys and Compounds, 2018, 738, 173-181.	2.8	16
23	Homogeneity of ultrafine-grained copper deformed by high-pressure torsion characterized by positron annihilation and microhardness. Scripta Materialia, 2011, 65, 171-174.	2.6	15
24	Hydrogen-induced defects and multiplication of dislocations in Palladium. Journal of Alloys and Compounds, 2015, 645, S312-S315.	2.8	14
25	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
26	Effect of deformation on evolution of Al3(Er,Zr) precipitates in Alâ€“Erâ€“Zr-based alloy. Materials Characterization, 2022, 186, 111781.	1.9	14
27	Vacancyâ€“solute complexes in aluminum. Applied Surface Science, 2006, 252, 3285-3289.	3.1	12
28	Effect of roughness and nanoporosity on optical properties of black and reflective Al films prepared by magnetron sputtering. Journal of Alloys and Compounds, 2021, 872, 159744.	2.8	11
29	Investigation of spatial distribution of defects in ultra-fine grained copper. Applied Surface Science, 2002, 194, 140-144.	3.1	10
30	Defect Studies of Yttria Stabilized Zirconia with Chromia Additive. Physics Procedia, 2012, 35, 134-139.	1.2	10
31	Positron annihilation in vacancies at grain boundaries in metals. Applied Surface Science, 2008, 255, 128-131.	3.1	9
32	Internal stress and mechanical deformation of Al and Al/Ni multilayered nanowires. Acta Materialia, 2009, 57, 453-465.	3.8	9
33	Hydrogen absorption in thin ZnO films prepared by pulsed laser deposition. Journal of Alloys and Compounds, 2013, 580, S40-S43.	2.8	9
34	Positron Annihilation Study of Zirconia Nanopowders and Nanoceramics Stabilized by Magnesia and Ceria. Journal of the American Ceramic Society, 2014, 97, 982-989.	1.9	9
35	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
36	Natural aging of Mgâ€“Gd and Mgâ€“Tb alloys. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2135-2141.	0.8	8

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37	Hydrogen-Induced Defects in Palladium. Acta Physica Polonica A, 2014, 125, 752-755.	0.2	8
38	Defect Behaviour in Yttria-Stabilised Zirconia Nanomaterials Studied by Positron Annihilation Techniques. Defect and Diffusion Forum, 0, 331, 181-199.	0.4	7
39	Defects Studies of ZnO Single Crystals Prepared by Various Techniques. Acta Physica Polonica A, 2014, 125, 748-751.	0.2	7
40	Defects in Zirconia Nanomaterials Doped with Rare-Earth Oxides. Acta Physica Polonica A, 2014, 125, 760-763.	0.2	7
41	Positron annihilation study of hydrogen trapping at open-volume defects: Comparison of nanocrystalline and epitaxial Nb thin films. Journal of Alloys and Compounds, 2007, 446-447, 484-488.	2.8	6
42	Positron annihilation at grain boundaries in metals. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3461-3464.	0.8	6
43	Hydrogenâ€induced defects in Pd films. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2364-2366.	0.8	6
44	Investigation of hydrogen interaction with defects in zirconia. Journal of Physics: Conference Series, 2010, 225, 012035.	0.3	6
45	Positron annihilation study of yttria-stabilized zirconia nanopowders containing Cr₂O₃additive. Journal of Physics: Conference Series, 2011, 265, 012020.	0.3	6
46	Hydrogen-Induced Defects in Titanium. Defect and Diffusion Forum, 2017, 373, 122-125.	0.4	6
47	Simulation of positron annihilation response to mechanical deformation of nanostructured Ni3Al. Applied Surface Science, 2008, 255, 157-159.	3.1	5
48	Hydrogen absorption and diffusivity in ZnO single crystals. Journal of Alloys and Compounds, 2013, 580, S51-S54.	2.8	5
49	Structural studies of thin Mg films. Journal of Physics: Conference Series, 2014, 505, 012024.	0.3	5
50	Basic positron properties of oxides: A computational study. Radiation Physics and Chemistry, 2007, 76, 101-105.	1.4	4
51	Mechanical properties of AgCo nanostructured nanowires. Computer Physics Communications, 2008, 179, 102-106.	3.0	4
52	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
53	Influence of Deformation on Precipitation Kinetics in Mg-Tb Alloy. Defect and Diffusion Forum, 0, 322, 151-162.	0.4	4
54	Hydrogen Interaction with Defects in Nanocrystalline, Polycrystalline and Epitaxial Pd Films. Journal of Nano Research, 0, 26, 123-133.	0.8	4

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55	Effect of hydrogen on generation of lattice defects in shock-loaded Pd. Journal of Alloys and Compounds, 2015, 645, S472-S475.	2.8	4
56	Point defects in ZnO crystals grown by various techniques. Journal of Physics: Conference Series, 2017, 791, 012017.	0.3	4
57	Positron annihilation study of cavities in black Au films. Journal of Physics: Conference Series, 2017, 791, 012018.	0.3	4
58	Defects in nanocrystalline Nb films: Effect of sputtering temperature. Applied Surface Science, 2006, 252, 3245-3251.	3.1	3
59	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
60	Mechanical properties of bimetallic crystalline and nanostructured nanowires. Faraday Discussions, 2008, 138, 59-74.	1.6	3
61	Structure and Positron Characteristics of Basic Open Volume Defects in Zirconia. Materials Science Forum, 0, 607, 125-127.	0.3	3
62	Quenchedâ€in vacancies in Feâ€Al alloys. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2367-2369.	0.8	3
63	Positron Annihilation at Planar Defects in Oxides. Materials Science Forum, 0, 733, 240-244.	0.3	3
64	Influence of Natural Ageing on Precipitation Processes during Isochronal Annealing in MgGd Alloys. Defect and Diffusion Forum, 0, 365, 42-48.	0.4	3
65	Kuznets Inverted U-Curve Hypothesis Examined on Up-To Date Observations for 145 Countries. Prague Economic Papers, 2014, 23, 388-410.	0.2	3
66	Thermal Stability of Microstructure of High-Entropy Alloys Based on Refractory Metals Hf, Nb, Ta, Ti, V, and Zr. Metals, 2022, 12, 394.	1.0	3
67	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
68	Vacancy-Hydrogen Complexes in ZnO. Materials Science Forum, 0, 607, 117-121.	0.3	2
69	Characterization of point defects in yttria stabilized zirconia single crystals. Journal of Physics: Conference Series, 2011, 262, 012038.	0.3	2
70	Quenched-in vacancies in Fe-Al alloys. Journal of Physics: Conference Series, 2011, 262, 012039.	0.3	2
71	Inhibition of Positronium Formation in Yttria Stabilized Zirconia Nanopowders Modified by Addition of Chromia. Materials Science Forum, 0, 733, 249-253.	0.3	2
72	Effect of Sintering on Defects in Yttria Stabilised Zirconia. Materials Science Forum, 0, 733, 236-239.	0.3	2

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73	Precipitation Effects in Mg-Zn Alloys Studied by Positron Annihilation and Hardness Testing. Acta Physica Polonica A, 2014, 125, 718-721.	0.2	2
74	Investigation of Precipitation Effects in Mg-Tb and Mg-Tb-Nd Alloys. Acta Physica Polonica A, 2014, 125, 744-747.	0.2	2
75	Defects and Sintering-Induced Diffusion Processes in Yttria-Stabilised Zirconia Nanomaterials Studied by Positron Annihilation Spectroscopy. , 0, 1, 155-172.		2
76	Characterisation of irradiation-induced defects in ZnO single crystals. Journal of Physics: Conference Series, 2016, 674, 012014.	0.3	2
77	Characterisation of Porosity in Zirconia-Based Nanopowders. Defect and Diffusion Forum, 0, 373, 295-298.	0.4	2
78	Characterization of various crystalline structures at the SiO2/Si interface by positrons. Radiation Physics and Chemistry, 2007, 76, 195-199.	1.4	1
79	Investigation of Interaction of Hydrogen with Defects in Zirconia. Materials Research Society Symposia Proceedings, 2009, 1216, 1.	0.1	1
80	Quenched-in vacancies in Fe₃Al based alloys: a positron annihilation study. Journal of Physics: Conference Series, 2011, 265, 012016.	0.3	1
81	Positron annihilation studies of zirconia doped with metal cations of different valence. Journal of Physics: Conference Series, 2013, 443, 012026.	0.3	1
82	Defect studies of ZnO films prepared by pulsed laser deposition on various substrates. Journal of Physics: Conference Series, 2013, 443, 012018.	0.3	1
83	Sintering of zirconia-based nanomaterials studied by variable-energy slow-positron beam. Journal of Physics: Conference Series, 2014, 505, 012020.	0.3	1
84	Positron annihilation in flight: experiment with slow and fast positrons. Journal of Physics: Conference Series, 2014, 505, 012043.	0.3	1
85	Hydrogen Trapping at Defects in Pd and Thermally Activated Desorption. Defect and Diffusion Forum, 2015, 365, 36-41.	0.4	1
86	Hydrogen-Induced Hardening in Palladium. Defect and Diffusion Forum, 2015, 365, 297-304.	0.4	1
87	Spatial distribution of defects in ultra fine grained copper prepared by high pressure torsion. Journal of Physics: Conference Series, 2016, 674, 012001.	0.3	1
88	Early stages of precipitation in Mg-RE alloys studied by positron annihilation spectroscopy. Journal of Physics: Conference Series, 2016, 674, 012004.	0.3	1
89	Effects in Mg-Zn-based alloys strengthened by quasicrystalline phase. Journal of Physics: Conference Series, 2016, 674, 012005.	0.3	1
90	Characterization of Lattice Defects in Refractory Metal Highâ€Entropy Alloy HfNbTaTiZr by Means of Positron Annihilation Spectroscopy. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100840.	0.8	1

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91	Simulation of properties of positrons trapped at Cu nanoparticles in Fe matrix. Journal of Physics: Conference Series, 2011, 265, 012021.	0.3	0
92	Microstructure Development and Lateral Distribution of Defects in Ultra-fine Grained Copper Prepared by High-pressure Torsion. Physics Procedia, 2012, 35, 4-9.	1.2	0
93	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
94	Diffusion Processes in the Sintering of Zirconia-Based Nanomaterials. Journal of Nano Research, 0, 26, 25-31.	0.8	0
95	Structural studies of thin Pd films loaded with hydrogen. Journal of Physics: Conference Series, 2014, 505, 012015.	0.3	0
96	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
97	Defect studies of zirconia implanted by high energy Xe ions. Journal of Physics: Conference Series, 2016, 674, 012016.	0.3	0
98	Defect studies of Mg films deposited on various substrates. Journal of Physics: Conference Series, 2016, 674, 012024.	0.3	0
99	Study of Defects in High Energy Ion Implanted ZnO Crystals. Defect and Diffusion Forum, 2017, 373, 193-196.	0.4	0