

Iwona Jozwik

List of Publications by Year in descending order

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54
papers

683
citations

687363

13
h-index

580821

25
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55
all docs

55
docs citations

55
times ranked

989
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase transformations induced by high electronic excitation in ion-irradiated Gd ₂ (Zr _x Ti _{1-x}) ₂ O ₇ pyrochlores. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	93
2	Graphene growth on Ge(100)/Si(100) substrates by CVD method. <i>Scientific Reports</i> , 2016, 6, 21773.	3.3	83
3	Structural stability of Nd ₂ Zr ₂ O ₇ pyrochlore ion-irradiated in a broad energy range. <i>Acta Materialia</i> , 2013, 61, 6492-6505.	7.9	55
4	Study of sub-oxide phases at the metal-oxide interface in oxidized pure zirconium and Zr-1.0% Nb alloy by using SEM/FIB/EBSD and EDS techniques. <i>Journal of Nuclear Materials</i> , 2016, 476, 56-62.	2.7	43
5	When Eutectics Meet Plasmonics: Nanoplasmonic, Volumetric, Self-Organized, Silver-Based Eutectic. <i>Advanced Optical Materials</i> , 2015, 3, 381-389.	7.3	38
6	Formation mechanism of graphene buffer layer on SiC(0 0 0 1). <i>Carbon</i> , 2015, 81, 63-72.	10.3	33
7	Mechanical and structural properties of ODS RAF steels submitted to low-energy ions irradiation. <i>Fusion Engineering and Design</i> , 2018, 127, 54-59.	1.9	23
8	Highly Conductive Doped Hybrid Carbon Nanotube-Graphene Wires. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33207-33220.	8.0	22
9	Low-noise epitaxial graphene on SiC Hall effect element for commercial applications. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	21
10	Effect of combined local variations in elastic and inelastic energy losses on the morphology of tracks in ion-irradiated materials. <i>Acta Materialia</i> , 2013, 61, 4669-4675.	7.9	19
11	Functional properties of poly(tetrafluoroethylene) (PTFE) gasket working in nuclear reactor conditions. <i>Journal of Molecular Structure</i> , 2018, 1157, 306-311.	3.6	19
12	Thermally activated double-carrier transport in epitaxial graphene on vanadium-compensated 6H-SiC as revealed by Hall effect measurements. <i>Carbon</i> , 2018, 139, 776-781.	10.3	16
13	Irradiated rare-earth-doped powellite single crystal probed by confocal Raman mapping and transmission electron microscopy. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 383-391.	2.5	15
14	Study of the electrical properties of ion irradiated polymer materials. <i>Surface and Coatings Technology</i> , 2020, 388, 125562.	4.8	13
15	HRTEM study of track evolution in 120-MeV U irradiated Gd ₂ Ti ₂ O ₇ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 286, 258-261.	1.4	12
16	Comparative study of radiation-induced damage in magnesium aluminate spinel by means of IL, CL and RBS/C techniques. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 439-445.	0.8	12
17	The effect of Ar-ion irradiation on nanomechanical and structural properties of ODS RAF steels manufactured by using HIP technique. <i>Vacuum</i> , 2017, 145, 144-152.	3.5	12
18	Evaluation of consolidation method on mechanical and structural properties of ODS RAF steel. <i>Applied Surface Science</i> , 2018, 446, 215-221.	6.1	12

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19	Absolute radiation tolerance of amorphous alumina coatings at room temperature. <i>Ceramics International</i> , 2021, 47, 34740-34750.	4.8	12
20	Influence of ion irradiation on the nanomechanical properties of thin alumina coatings deposited on 316L SS by PLD. <i>Surface and Coatings Technology</i> , 2020, 386, 125491.	4.8	11
21	The epitaxial lateral overgrowth of silicon by two-step liquid phase epitaxy. <i>Journal of Crystal Growth</i> , 2006, 294, 367-372.	1.5	9
22	Hydrogen loss from elastomers subjected to ion irradiation. <i>Materials Chemistry and Physics</i> , 2011, 127, 342-346.	4.0	9
23	Identification of the Zirconia Phases by Means of Raman Spectroscopy for Specimens Prepared by FIB Lift-Out Technique. <i>Oxidation of Metals</i> , 2017, 88, 521-530.	2.1	9
24	Structural and functional properties of ion-irradiated graphene-reinforced elastomers. <i>Surface and Coatings Technology</i> , 2016, 306, 176-180.	4.8	7
25	Influence of consolidation process on functional properties of steels. <i>Surface and Coatings Technology</i> , 2018, 355, 234-239.	4.8	7
26	Ion-irradiated butadiene acrylonitrile rubber reinforced with graphene filler. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 435, 323-326.	1.4	6
27	Damage accumulation studies in ion-irradiated oxides: Current status and new perspectives. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 435, 2-7.	1.4	6
28	Bulk nanocomposite made of ZnO lamellae embedded in the ZnWO ₄ matrix: growth from the melt. <i>Journal of Materials Science</i> , 2021, 56, 11219-11228.	3.7	6
29	Interdigitated back contact solar cells with SiO ₂ and SiN back surface passivation. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4341-4344.	3.1	5
30	Communication – Direct Imaging of Irradiation Damage in Semiconductors by Low-Energy SEM. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, P415-P417.	1.8	5
31	High resolution SEM characterization of nano-precipitates in ODS steels. <i>Microscopy Research and Technique</i> , 2018, 81, 502-508.	2.2	5
32	Enhanced Raman spectra of hydrogen-intercalated quasi-free-standing monolayer graphene on 4H-SiC(0001). <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 117, 113746.	2.7	5
33	Nanomechanical properties of low-energy Fe-ion implanted Eurofer97 and pure Fe. <i>Surface and Coatings Technology</i> , 2020, 393, 125833.	4.8	5
34	Resistivity contrast imaging in semiconductor structures using ultra-low energy scanning electron microscopy. <i>Ultramicroscopy</i> , 2021, 228, 113333.	1.9	5
35	Ion beam-induced luminescence as method of characterization of radiation damage in polycrystalline materials. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 365, 273-277.	1.4	4
36	Structural and mechanical properties of different types of graphite used in nuclear applications. <i>Journal of Molecular Structure</i> , 2020, 1217, 128370.	3.6	4

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37	RBS/C, HRTEM and HRXRD study of damage accumulation in irradiated SrTiO ₃ . Radiation Effects and Defects in Solids, 2013, 168, 442-449.	1.2	3
38	Damage-induced voltage alteration (DIVA) contrast in SEM images of ion-irradiated semiconductors. Ultramicroscopy, 2019, 204, 6-9.	1.9	3
39	Analysis of ambient gas influence on silicon layers crystallized by means of LPE. Journal of Non-Crystalline Solids, 2008, 354, 4423-4425.	3.1	2
40	Low-kV SEM Imaging of Epitaxial Graphene Grown on Various Substrates. Microscopy and Microanalysis, 2014, 20, 18-19.	0.4	2
41	The influence of pressure on growth of 3C-SiC heteroepitaxial layers on silicon substrates. Journal of Crystal Growth, 2014, 401, 542-546.	1.5	2
42	MOCVD growth of gallium and indium microparticles for SERS applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 8958-8964.	2.2	2
43	Direct visualization of highly resistive areas in GaN by means of low-voltage scanning electron microscopy. Materials Science in Semiconductor Processing, 2022, 138, 106293.	4.0	2
44	Two-Step Liquid Phase Epitaxy Growth of Silicon on Patterned Silicon Substrates in Ar Atmosphere. , 2006, , .		1
45	Influence of LPE process technological conditions on Si ELO layers morphology. Journal of Non-Crystalline Solids, 2008, 354, 4287-4289.	3.1	1
46	Conductivity Contrast in SEM Images of Hydrogenated Graphene Grown on SiC. Microscopy and Microanalysis, 2015, 21, 31-32.	0.4	1
47	CNT fibers p-doped with F4TCNQ (2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane). , 2017, , .		1
48	Low energy cathodoluminescence analysis of damage build-up in ion irradiated spinel mono- and polycrystals. Nuclear Instruments & Methods in Physics Research B, 2018, 435, 290-295.	1.4	1
49	Ion-Irradiated Damage in Semiconductors Visualized by Means of Low-kV Scanning Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 486-487.	0.4	1
50	Analysis of Radiation Damage in Magnesium Aluminate Spinel by Means of Cathodoluminescence. Microscopy and Microanalysis, 2015, 21, 1005-1006.	0.4	0
51	Ni(111) Thin Layers Recrystallization Studied by SEM, EBSD and AFM. Microscopy and Microanalysis, 2019, 25, 1982-1983.	0.4	0
52	3D Depth Profile Reconstruction of Segregated Impurities using Secondary Ion Mass Spectrometry. Journal of Visualized Experiments, 2020, , .	0.3	0
53	Carbon nanotube fibers doped with iron via Fenton reaction. , 2018, , .		0
54	Formation of GeO ₂ under Graphene on Ge(001)/Si(001) Substrates Using Water Vapor. Molecules, 2022, 27, 3636.	3.8	0