

Gizo D Bokuchava

List of Publications by Year in descending order

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54
papers

388
citations

933264

10
h-index

839398

18
g-index

55
all docs

55
docs citations

55
times ranked

257
citing authors

#	ARTICLE	IF	CITATIONS
1	STUDY OF DEFORMATION HARDENING PLACES IN ALUMINUM ALLOY ON DEFECTS OF MECHANICAL SURFACE TREATMENT. Informacionnye Tehnologii V Proektirovanii I Proizvodstve, 2022, , 34-44.	0.0	1
2	On the diffraction peak amplitude measured by neutron reverse time-of-flight (RTOF) diffractometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, , 166917.	0.7	0
3	A Monte Carlo Model of the Neutron Detector Based on Lithium-Glass Scintillator. Instruments and Experimental Techniques, 2021, 64, 195-201.	0.1	3
4	Further insights on the stress equilibrium method to investigate macroscopic residual stress fields: Case of aluminum alloys cylinders. Journal of Alloys and Compounds, 2021, 861, 158506.	2.8	4
5	Residual Stress Distribution after Quenching Treatment Obtained from Diffraction Experiments and Simulation by Finite Element Method. Journal of Surface Investigation, 2021, 15, 537-541.	0.1	0
6	Study of Microscopic Residual Stresses in an Extruded Aluminium Alloy Sample after Thermal Treatment. Journal of Surface Investigation, 2021, 15, 763-767.	0.1	2
7	Biological Performances of Plasmonic Biohybrids Based on Phyto-Silver/Silver Chloride Nanoparticles. Nanomaterials, 2021, 11, 1811.	1.9	8
8	Characterization and Antitumoral Activity of Biohybrids Based on Turmeric and Silver/Silver Chloride Nanoparticles. Materials, 2021, 14, 4726.	1.3	9
9	Evolution of phase stresses in Al/SiCp composite during thermal cycling and compression test studied using diffraction and self-consistent models. Journal of Materials Science and Technology, 2020, 36, 176-189.	5.6	14
10	Study of Residual Stresses and Microstructural Changes in Charpy Test Specimens Reconstituted by Various Welding Techniques. Metals, 2020, 10, 632.	1.0	10
11	Correlation RTOF diffractometry at long-pulse neutron source: I. Data acquisition in list-mode. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 964, 163770.	0.7	5
12	Analysis of the Combined Strengthening Effect of Solute Atoms and Precipitates on Creep of Aluminum Alloys. Advanced Engineering Materials, 2020, 22, 1901355.	1.6	8
13	Correlation RTOF diffractometry at long-pulse neutron source: II. Analysis of frequency windows and diffraction peak profiles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 983, 164612.	0.7	2
14	Study of residual stresses in electron beam welded samples of an aluminum alloy via neutron diffraction method. AIP Conference Proceedings, 2019, , .	0.3	0
15	Neutron Diffraction Study of Phase Stresses in Al/SiCp Composite During Tensile Test. Metals and Materials International, 2019, 25, 657-668.	1.8	7
16	Determination of residual stresses in fiber laser welded stainless steel joints by neutron diffraction method. , 2019, , .		0
17	Neutron Time-of-Flight Stress Diffractometry. Journal of Surface Investigation, 2018, 12, 97-102.	0.1	4
18	Neutron RTOF Stress Diffractometer FSD at the IBR-2 Pulsed Reactor. Crystals, 2018, 8, 318.	1.0	14

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19	Study of residual stresses in CT test specimens welded by electron beam. Journal of Physics: Conference Series, 2018, 992, 012016.	0.3	0
20	Investigation of Plastically Deformed TRIP-Composites by Neutron Diffraction and Small-Angle Neutron Scattering Methods. Journal of Surface Investigation, 2018, 12, 227-232.	0.1	7
21	The Application of Scanning Contact Potentiometry Method and Diffraction of Thermal Neutrons at Physico-Mechanical Tests of Materials. KnE Engineering, 2018, 3, 109.	0.1	3
22	Residual stresses formation in multi-pass weldment: A numerical and experimental study. Journal of Constructional Steel Research, 2017, 138, 633-641.	1.7	20
23	Neutron diffraction studies of laser welding residual stresses. , 2017, , .		2
24	Application of neutron stress diffractometry for studies of residual stresses and microstrains in reactor pressure vessel surveillance specimens reconstituted by beam welding methods. Journal of Surface Investigation, 2016, 10, 1143-1153.	0.1	7
25	Neutron radiography and tomography facility at IBR-2 reactor. Physics of Particles and Nuclei Letters, 2016, 13, 346-351.	0.1	33
26	CMR@IBR-2 - International Conference "Condensed Matter Research at the IBR-2" in FLNP JINR, Dubna. Neutron News, 2016, 27, 18-20.	0.1	0
27	First Attempts on Energy-selective Neutron Imaging at IBR-2. Physics Procedia, 2015, 69, 271-274.	1.2	2
28	Application of neutron stress diffractometry for the study of residual stress and texture in industrial metal products processed in various ways. Journal of Surface Investigation, 2015, 9, 425-435.	0.1	2
29	Correlation Fourier diffractometry: 20 Years of experience at the IBR-2 reactor. Physics of Particles and Nuclei, 2015, 46, 249-276.	0.2	42
30	Evolution in the dislocation structure of austenitic 16Cr-15Ni-3Mo-1Ti steel depending on the degree of cold plastic deformation. Journal of Surface Investigation, 2015, 9, 44-52.	0.1	7
31	Investigation of the neutron transmission spectra of materials promising for the manufacturing of crystalline and polycrystalline filters. Journal of Surface Investigation, 2015, 9, 317-319.	0.1	2
32	Neutron Radiography Facility at IBR-2 High Flux Pulsed Reactor: First Results. Physics Procedia, 2015, 69, 87-91.	1.2	25
33	High-resolution neutron diffraction study of microstructural changes in nanocrystalline ball-milled niobium carbide NbC _{0.93} . Materials Characterization, 2015, 109, 173-180.	1.9	19
34	Investigation of microstrain in dispersion-strengthened steels. Physics of the Solid State, 2014, 56, 166-170.	0.2	3
35	Microstrain in dispersion-hardened steels. Physics of Particles and Nuclei Letters, 2013, 10, 157-161.	0.1	2
36	Neutron Fourier diffractometer FSD for residual stress studies in materials and industrial components. Journal of Surface Investigation, 2010, 4, 879-890.	0.1	22

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37	Neutron RTOF diffractometer FSD for residual stress investigation. Zeitschrift für Kristallographie, Supplement, 2006, 2006, 217-222.	0.5	9
38	Positron annihilation as an additional source of information about plastic deformation in structural materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 437, 54-59.	2.6	5
39	Neutron RTOF diffractometer FSD for residual stress investigation. , 2006, , 217-222.		1
40	Plastic deformation in structural materials, investigated in situ by neutrons and positrons. Applied Radiation and Isotopes, 2005, 63, 751-755.	0.7	1
41	Elastic properties of single phase β -TiAl polycrystalline material at ambient and elevated temperature. Journal of Neutron Research, 2005, 13, 261-265.	0.4	0
42	In situ Investigation of Plastic Deformation by Neutrons and Positrons--a Novel Approach. Journal of Neutron Research, 2004, 12, 159-163.	0.4	1
43	Detector for the FSD Fourier-diffractometer Based on ZnS(Ag)/ 6 LiF Scintillation Screen and Wavelength Shifting Fiber Readout. Journal of Neutron Research, 2002, 10, 31-41.	0.4	29
44	Neutron Fourier diffractometer FSD for internal stress analysis: first results. Applied Physics A: Materials Science and Processing, 2002, 74, s86-s88.	1.1	20
45	Reverse time-of-flight neutron diffraction study of residual stresses in perforator's striker. Journal of Neutron Research, 2001, 9, 255-261.	0.4	4
46	Residual stress studies in graded W/Cu materials by neutron diffraction method. Physica B: Condensed Matter, 2000, 276-278, 884-885.	1.3	6
47	Determination of Residual Stresses in WCu Gradient Materials. Textures and Microstructures, 1999, 33, 207-217.	0.2	1
48	Measurements of Residual Stresses in a Shape Welded Steel Tube by Neutron and X-Ray Diffraction. Textures and Microstructures, 1999, 33, 231-242.	0.2	4
49	Residual Stress States of Graded CuW Materials. Materials Science Forum, 1999, 308-311, 1018-1023.	0.3	3
50	Residual Stress Investigations in Austenitic Steel Samples With Different Degree of Low Cycle Fatigue. Textures and Microstructures, 1999, 33, 279-289.	0.2	9
51	Neutron Diffraction Investigation of Effects Induced in Materials by High-Current Pulsed Electron Beam Irradiation. Materials Science Forum, 1998, 278-281, 858-861.	0.3	1
52	Neutron diffraction investigations of stresses in austenitic steel. Physica B: Condensed Matter, 1997, 234-236, 967-968.	1.3	3
53	Equipment for Residual Stress Measurements with the High Resolution Fourier Diffractometer: Present Status and Prospects. Materials Science Forum, 1996, 228-231, 265-268.	0.3	1
54	Estimation of Residual Stress in Cold Rolled Iron-Disks Using Magnetic and Ultrasonic Methods and Neutron Diffraction Technique. Materials Research Society Symposia Proceedings, 1994, 376, 415.	0.1	1