Gizo D Bokuchava

List of Publications by Year
in descending order

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	Correlation Fourier diffractometry: 20 Years of experience at the IBR-2 reactor. Physics of Particles and Nuclei, 2015, 46, 249-276.	0.2	42
2	Neutron radiography and tomography facility at IBR-2 reactor. Physics of Particles and Nuclei Letters, 2016, 13, 346-351.	0.1	33
3	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
4	Neutron Radiography Facility at IBR-2 High Flux Pulsed Reactor: First Results. Physics Procedia, 2015, 69, 87-91.	1.2	25
5	Neutron Fourier diffractometer FSD for residual stress studies in materials and industrial components. Journal of Surface Investigation, 2010, 4, 879-890.	0.1	22
6	Neutron Fourier diffractometer FSD for internal stress analysis: first results. Applied Physics A: Materials Science and Processing, 2002, 74, s86-s88.	1.1	20
7	Residual stresses formation in multi-pass weldment: A numerical and experimental study. Journal of Constructional Steel Research, 2017, 138, 633-641.	1.7	20
8	High-resolution neutron diffraction study of microstructural changes in nanocrystalline ball-milled niobium carbide NbC0.93. Materials Characterization, 2015, 109, 173-180.	1.9	19
9	Neutron RTOF Stress Diffractometer FSD at the IBR-2 Pulsed Reactor. Crystals, 2018, 8, 318.	1.0	14
10	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
11	Study of Residual Stresses and Microstructural Changes in Charpy Test Specimens Reconstituted by Various Welding Techniques. Metals, 2020, 10, 632.	1.0	10
12	Neutron RTOF diffractometer FSD for residual stress investigation. Zeitschrift FÃ¼r Kristallographie, Supplement, 2006, 2006, 217-222.	0.5	9
13	Characterization and Antitumoral Activity of Biohybrids Based on Turmeric and Silver/Silver Chloride Nanoparticles. Materials, 2021, 14, 4726.	1.3	9
14	Residual Stress Investigations in Austenitic Steel Samples With Different Degree of Low Cycle Fatigue. Textures and Microstructures, 1999, 33, 279-289.	0.2	9
15	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
16	Biological Performances of Plasmonic Biohybrids Based on Phyto-Silver/Silver Chloride Nanoparticles. Nanomaterials, 2021, 11, 1811.	1.9	8
17	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
18	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

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19	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
20	Neutron Diffraction Study of Phase Stresses in Al/SiCp Composite During Tensile Test. Metals and Materials International, 2019, 25, 657-668.	1.8	7
21	Residual stress studies in graded W/Cu materials by neutron diffraction method. Physica B: Condensed Matter, 2000, 276-278, 884-885.	1.3	6
22	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
23	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
24	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
25	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
26	Neutron Time-of-Flight Stress Diffractometry. Journal of Surface Investigation, 2018, 12, 97-102.	0.1	4
27	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
28	Neutron diffraction investigations of stresses in austenitic steel. Physica B: Condensed Matter, 1997, 234-236, 967-968.	1.3	3
29	Residual Stress States of Graded CuW Materials. Materials Science Forum, 1999, 308-311, 1018-1023.	0.3	3
30	Investigation of microstrain in dispersion-strengthened steels. Physics of the Solid State, 2014, 56, 166-170.	0.2	3
31	A Monte Carlo Model of the Neutron Detector Based on Lithium-Glass Scintillator. Instruments and Experimental Techniques, 2021, 64, 195-201.	0.1	3
32	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
33	Microstrain in dispersion-hardened steels. Physics of Particles and Nuclei Letters, 2013, 10, 157-161.	0.1	2
34	First Attempts on Energy-selective Neutron Imaging at IBR-2. Physics Procedia, 2015, 69, 271-274.	1.2	2
35	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
36	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

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37	Neutron diffraction studies of laser welding residual stresses. , 2017, , .		2
38	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
39	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
40	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
41	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
42	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
43	Determination of Residual Stresses in WCu Gradient Materials. Textures and Microstructures, 1999, 33, 207-217.	0.2	1
44	In situ Investigation of Plastic Deformation by Neutrons and Positrons--a Novel Approach. Journal of Neutron Research, 2004, 12, 159-163.	0.4	1
45	Plastic deformation in structural materials, investigated in situ by neutrons and positrons. Applied Radiation and Isotopes, 2005, 63, 751-755.	0.7	1
46	Neutron RTOF diffractometer FSD for residual stress investigation. , 2006, , 217-222.		1
47	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
48	Elastic properties of single phase Î³-TiAl polycrystalline material at ambient and elevated temperature. Journal of Neutron Research, 2005, 13, 261-265.	0.4	0
49	CMR@IBR-2 - International Conference â€œCondensed Matter Research at the IBR-2â€•in FLNP JINR, Dubna. Neutron News, 2016, 27, 18-20.	0.1	0
50	Study of residual stresses in CT test specimens welded by electron beam. Journal of Physics: Conference Series, 2018, 992, 012016.	0.3	0
51	Study of residual stresses in electron beam welded samples of an aluminum alloy via neutron diffraction method. AIP Conference Proceedings, 2019, , .	0.3	0
52	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
53	Determination of residual stresses in fiber laser welded stainless steel joints by neutron diffraction method. , 2019, , .		0
54	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