

Roman N Vasin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/112943/publications.pdf>

Version: 2024-02-01

42
papers

803
citations

687363

13
h-index

501196

28
g-index

42
all docs

42
docs citations

42
times ranked

816
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Texture Analysis: Implementation on the SKAT Neutron Diffractometer and Application in Materials and Earth Sciences. <i>Crystallography Reports</i> , 2022, 67, 64-80.	0.6	0
2	Spinodal decomposition influence of austenite on martensitic transition in a Mn-13 at.%Cu alloy. <i>Journal of Alloys and Compounds</i> , 2021, 853, 157061.	5.5	5
3	Intrinsic Elastic Anisotropy of Westerly Granite Observed by Ultrasound Measurements, Microstructural Investigations, and Neutron Diffraction. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	3.4	15
4	Deformation of binary and boron-doped Ni3Al alloys at high pressures studied with synchrotron x-ray diffraction. <i>Journal of Applied Physics</i> , 2021, 129, 225101.	2.5	0
5	In-situ synchrotron X-ray diffraction analysis of the elastic behaviour of martensite and H-phase in a NiTiHf high temperature shape memory alloy fabricated by laser powder bed fusion. <i>Additive Manufacturing Letters</i> , 2021, 1, 100003.	2.1	28
6	Elastic anisotropies of deformed upper crustal rocks in the Alps. <i>Solid Earth</i> , 2021, 12, 2303-2326.	2.8	3
7	Volume effect upon martensitic transformation in Ti29.7Ni50.3Hf20 high temperature shape memory alloy. <i>Scripta Materialia</i> , 2020, 178, 67-70.	5.2	17
8	Thermal expansion of martensite in Ti29.7Ni50.3Hf20 shape memory alloy. <i>Intermetallics</i> , 2020, 125, 106889.	3.9	14
9	Influence of spinodal decomposition on structure and thermoelastic martensitic transition in MnCuAlNi alloy. <i>Materials Letters</i> , 2020, 275, 128069.	2.6	7
10	A simple variant selection in stress-driven martensitic transformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14905-14909.	7.1	10
11	Preferred Orientation of Quartz in Metamorphic Rocks from the Bergell Alps. <i>Minerals (Basel)</i> , 2019, 9, 1074.	2.9	11
12	Abnormal phase-separated state of Li Ni0.8Co0.15Al0.05O2 in the first charge: Effect of electrode compaction. <i>Electrochimica Acta</i> , 2018, 265, 726-735.	5.2	13
13	Extrapolation of bulk rock elastic moduli of different rock types to high pressure conditions and comparison with texture-derived elastic moduli. <i>Physics of the Earth and Planetary Interiors</i> , 2018, 275, 32-43.	1.9	10
14	Preferred orientation of calcium aluminosilicate hydrate induced by confined compression. <i>Cement and Concrete Research</i> , 2018, 113, 186-196.	11.0	63
15	Characterization of crystallographic texture of Zirconium alloy components by neutron diffraction. <i>Journal of Nuclear Materials</i> , 2018, 510, 524-538.	2.7	12
16	In-situ time-of-flight neutron diffraction study of the structure evolution of electrode materials in a commercial battery with LiNi0.8Co0.15Al0.05O2 cathode. <i>Journal of Power Sources</i> , 2017, 372, 74-81.	7.8	34
17	Preferred Orientation Patterns of Phyllosilicates In Surface Clays. <i>Clays and Clay Minerals</i> , 2017, 65, 329-341.	1.3	7
18	On the use of a composite moderator at the IBR-2 reactor: Advantages for the neutron-diffraction texture analysis of rocks. <i>Journal of Surface Investigation</i> , 2016, 10, 677-686.	0.5	7

#	ARTICLE	IF	CITATIONS
19	Bulk rock elastic moduli at high pressures, derived from the mineral textures and from extrapolated laboratory data. IOP Conference Series: Materials Science and Engineering, 2015, 82, 012093.	0.6	0
20	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.	0.5	2
21	Linking preferred orientations to elastic anisotropy in Muderong Shale, Australia. Geophysics, 2015, 80, C9-C19.	2.6	20
22	High-resolution neutron diffraction study of microstructural changes in nanocrystalline ball-milled niobium carbide NbC _{0.93} . Materials Characterization, 2015, 109, 173-180.	4.4	19
23	Rietveld texture analysis from synchrotron diffraction images. I. Calibration and basic analysis. Powder Diffraction, 2014, 29, 76-84.	0.2	129
24	Rietveld texture analysis from synchrotron diffraction images. II. Complex multiphase materials and diamond anvil cell experiments. Powder Diffraction, 2014, 29, 220-232.	0.2	102
25	The influence of grain shape and volume fraction of sheet silicates on elastic properties of aggregates: Biotite platelets in an isotropic matrix. Geophysics, 2014, 79, D433-D441.	2.6	10
26	Elastic anisotropy modeling of Kimmeridge shale. Journal of Geophysical Research: Solid Earth, 2013, 118, 3931-3956.	3.4	147
27	Investigation into the seismoacoustic properties of specific polycrystalline materials used in nuclear reactors. Crystallography Reports, 2012, 57, 682-692.	0.6	0
28	Peculiarities of ultrasound propagation through layered structurally inhomogeneous solid bodies. Journal of Surface Investigation, 2012, 6, 954-960.	0.5	2
29	Revisiting elastic anisotropy of biotite gneiss from the Outokumpu scientific drill hole based on new texture measurements and texture-based velocity calculations. Tectonophysics, 2012, 570-571, 123-134.	2.2	41
30	Determination of the residual stress tensor in textured zirconium alloy by neutron diffraction. Journal of Nuclear Materials, 2012, 421, 64-72.	2.7	6
31	Peculiarities of quasi-longitudinal elastic wave propagation through the interface between isotropic and anisotropic media: Theoretical and experimental study. Crystallography Reports, 2012, 57, 560-568.	0.6	2
32	The determination of the elastic properties of an anisotropic polycrystalline graphite using neutron diffraction and ultrasonic measurements. Carbon, 2011, 49, 1374-1384.	10.3	17
33	A Simultaneous Application of Neutron Diffraction and Acoustic Emission Methods for Investigation of Physical Properties of Rocks During Polymorphic Phase Transitions. Neutron News, 2010, 21, 20-24.	0.2	0
34	Possible influence of polymorphic transitions in minerals (according to the quartz example) on seismotectonic processes in the lithosphere. Izvestiya, Physics of the Solid Earth, 2009, 45, 338-346.	0.9	2
35	Similar quartz crystallographic textures in rocks of continental earth's crust (by neutron) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Jf 50 62 T	0.6	3
36	Similar quartz crystallographic textures in rocks of continental earth's crust (by neutron) Tj ETQq0 0 0 rgBT /Overlock 10 Jf 50 62 T	0.6	3

#	ARTICLE	IF	CITATIONS
37	Similar quartz crystallographic textures in rocks of continental earth's crust (by neutron diffraction). Crystallography Reports, 2008, 53, 828-836.	0.6	3
38	Investigation of the structure and properties of quartz in the α - β transition range by neutron diffraction and mechanical spectroscopy. Crystallography Reports, 2007, 52, 428-435.	0.6	20
39	Acoustic emission of quasi-isotropic rock samples initiated by temperature gradients. Izvestiya, Physics of the Solid Earth, 2006, 42, 815-823.	0.9	6
40	Investigation of thermal and deformation properties of quartzite in a temperature range of polymorphous α - β transition by neutron diffraction and acoustic emission methods. Physics of Particles and Nuclei Letters, 2006, 3, 46-53.	0.4	7
41	Strain and Texture Investigations by Means of Neutron Time-of-Flight Diffraction: Application to Polyphase Gneisses. Materials Science Forum, 0, 777, 136-141.	0.3	1
42	Elastic anisotropy of Tambo gneiss from Promontogno, Switzerland: a comparison of crystal orientation and microstructure-based modeling and experimental measurements. Geophysical Journal International, 0, , ggw487.	2.4	5