

Andrey A Prokhorov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4798665/publications.pdf>

Version: 2024-02-01

40
papers

419
citations

687363

13
h-index

794594

19
g-index

40
all docs

40
docs citations

40
times ranked

474
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoparticle core stability and surface functionalization drive the mTOR signaling pathway in hepatocellular cell lines. <i>Scientific Reports</i> , 2017, 7, 16049.	3.3	38
2	Magnetic resonances spectroscopy of nanosize particles La _{0.7} Sr _{0.3} MnO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 300, e122-e125.	2.3	29
3	Role of the paramagnetic donor-like defects in the high n-type conductivity of the hydrogenated ZnO microparticles. <i>Scientific Reports</i> , 2020, 10, 17347.	3.3	27
4	Superparamagnetic resonance of single-domain nanoparticles of LaSrMnO ₃ . <i>Low Temperature Physics</i> , 2007, 33, 433-438.	0.6	25
5	Electron paramagnetic resonance spectra of Er ³⁺ in the monoclinic KY(WO ₄) ₂ crystal. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 5113-5120.	1.8	21
6	EPR spectra of Cr ³⁺ ion in the Van Vleck paramagnet EuAl ₃ (BO ₃) ₄ . <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1331-1338.	1.5	21
7	Raman and EPR spectroscopic studies of chromium-doped diamond-like carbon films. <i>Diamond and Related Materials</i> , 2018, 83, 30-37.	3.9	20
8	Temperature variation of the EPR spectra of Dy ³⁺ in single crystal KY(WO ₄) ₂ . <i>Physical Review B</i> , 2000, 62, 5834-5838.	3.2	18
9	Temperature and pressure dependences of EPR spectra of Gd ³⁺ ion doped in the EuAl ₃ (BO ₃) ₄ monocystal. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1546-1550.	2.3	17
10	EPR of Nd ³⁺ and Er ³⁺ ions in aluminum borates YAl ₃ (BO ₃) ₄ and EuAl ₃ (BO ₃) ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 326, 162-165.	2.3	16
11	Comparison of EPR spectra of the Gd ³⁺ ion doped in EuAl ₃ (BO ₃) ₄ , YAl ₃ (BO ₃) ₄ , EuAl ₃ (BO ₃) ₄ , and TmAl ₃ (BO ₃) ₄ single crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 201-205.	1.5	15
12	Electron paramagnetic resonance of Gd ³⁺ ion in monocystal YAl ₃ (BO ₃) ₄ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2617-2621.	1.8	14
13	On the peculiar properties of triangular-chain EuCr ₃ (BO ₃) ₄ antiferromagnet. <i>Journal of Solid State Chemistry</i> , 2014, 210, 30-35.	2.9	14
14	EPR of Yb ³⁺ ions in a monoclinic KY(WO ₄) ₂ single crystal. <i>European Physical Journal B</i> , 2007, 55, 389-395.	1.5	12
15	The ground state and EPR spectrum in monoclinic KY(WO ₄) ₂ :Nd ³⁺ single crystal. <i>Physica B: Condensed Matter</i> , 2008, 403, 3174-3178.	2.7	12
16	EPR of Dy ³⁺ ions in YAl ₃ (BO ₃) ₄ and EuAl ₃ (BO ₃) ₄ aluminoborates. <i>Low Temperature Physics</i> , 2014, 40, 730-734.	0.6	11
17	Effect of hydrostatic pressure and temperature on the EPR spectrum of the Mn ²⁺ ion in Zn(BF ₄) ₂ ·6H ₂ O. <i>Physics of the Solid State</i> , 2000, 42, 1134-1138.	0.6	10
18	EPR study of the ground state of Mn ²⁺ impurity ions in aluminoborates MAl ₃ (BO ₃) ₄ (M = Y, Eu, Tm). <i>Physica Scripta</i> , 2015, 90, 065804.	2.5	10

#	ARTICLE	IF	CITATIONS
19	Static and dynamic characteristics of the Cr ³⁺ EPR spectra in the Van Vleck paramagnet TmAl ₃ (BO ₃) ₄ . Journal of Materials Science, 2016, 51, 4762-4768.	3.7	10
20	EPR and luminescence studies of the radiation induced Eu ²⁺ centers in the EuAl ₃ (BO ₃) ₄ single crystals. Optical Materials, 2017, 66, 428-433.	3.6	10
21	Optical and magnetic properties of the ground state of Cr ³⁺ doping ions in REM ₃ (BO ₃) ₄ single crystals. Scientific Reports, 2019, 9, 12787.	3.3	8
22	EPR studies of phase transitions in perchlorates [M ²⁺ (ClO ₄) ₂ · 6H ₂ O] at high pressures. Physics of the Solid State, 2006, 48, 340-347.	0.6	7
23	EPR Study of Chromium Ions Doped Gallium Borate. Acta Physica Polonica A, 2019, 136, 947-951.	0.5	7
24	Temperature dependence of the EPR spectrum of Co ²⁺ ion in crystals Zn(BF ₄) ₂ · 6H ₂ O. Physica Status Solidi (B): Basic Research, 2003, 236, 640-644.	1.5	6
25	Inversion of spin levels in Ni ²⁺ : Zn(BF ₄) ₂ · 6H ₂ O under uniform compression and the effect of transition coincidence. Physics of the Solid State, 2001, 43, 2242-2246.	0.6	5
26	EPR study of the low-spin state of Ru ³⁺ in the YAl ₃ (BO ₃) ₄ and EuAl ₃ (BO ₃) ₄ aluminum borates. Journal of Magnetism and Magnetic Materials, 2016, 420, 285-289.	2.3	5
27	Temperature behavior of the conduction electrons in the nitrogen-doped 3C SiC monocrystals as studied by electron spin resonance. Journal of Applied Physics, 2017, 121, .	2.5	5
28	Structural and magnetic properties of YAl ₃ (BO ₃) ₄ and EuAl ₃ (BO ₃) ₄ single crystals doped with Co ²⁺ . Journal of Alloys and Compounds, 2018, 765, 710-720.	5.5	5
29	The EPR of monoclinic KY(WO ₄) ₂ single crystal doped with Sm ³⁺ ion. Physica Status Solidi (B): Basic Research, 2009, 246, 1105-1109.	1.5	4
30	Impact of the dangling bond defects and grain boundaries on trapping recombination process in polycrystalline 3C SiC. Journal of Alloys and Compounds, 2020, 823, 153752.	5.5	4
31	Magnetic and EPR studies of the EuFe ₃ (BO ₃) ₄ single crystal. European Physical Journal B, 2010, 78, 291-298.	1.5	3
32	Comparative study of structural, optical and magnetic properties of Er ³⁺ doped yttrium gallium borates. Results in Physics, 2020, 19, 103247.	4.1	3
33	NMR of ⁵⁷ Fe in RFe _{1-x} MnxO ₃ orthoferrites. Low Temperature Physics, 2000, 26, 259-264.	0.6	2
34	Comparative study of structural and magnetic properties of the Tb ³⁺ ion doped into aluminum and gallium borate single crystals. Materials Chemistry and Physics, 2022, 275, 125251.	4.0	2
35	EPR of 3d 5 and 3d 8 ions in Crystals With Perchlorate Structure at High Pressure. High Pressure Research, 2002, 22, 69-71.	1.2	1
36	PRESSURE AND TEMPERATURE DEPENDENCIES OF ELECTRON PARAMAGNETIC RESONANCE Mn ²⁺ UNDER PHASE TRANSITIONS IN Zn(ClO ₄) ₂ · 6H ₂ O AND Mg(ClO ₄) ₂ · 6H ₂ O. High Pressure Research, 2003, 23, 355-357.	1.2	1

#	ARTICLE	IF	CITATIONS
37	Amino-functionalized nanoparticles as a platform for mTOR activity modulation in hepatocellular carcinoma Huh7 cell line. <i>Journal of Hepatology</i> , 2017, 66, S645-S646.	3.7	1
38	Magnetic Structure and Microwave Properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Ultrafine Particles. , 2007, , .		0
39	Ground State Er^{3+} Ion in the $\text{YGa}_3(\text{BO}_3)_4$. <i>Acta Physica Polonica A</i> , 2020, 138, 777-780.	0.5	0
40	The Impact of Hydrogenation on Structural and Superconducting Properties of $\text{FeTe}_{0.65}\text{Se}_{0.35}$ Single Crystals. <i>Materials</i> , 2021, 14, 7900.	2.9	0