

# Andrey A Prokhorov

## List of Publications by Year in descending order

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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	Comparative study of structural and magnetic properties of the Tb <sup>3+</sup> ion doped into aluminum and gallium borate single crystals. <i>Materials Chemistry and Physics</i> , 2022, 275, 125251.	4.0	2
2	The Impact of Hydrogenation on Structural and Superconducting Properties of FeTe <sub>0.65</sub> Se <sub>0.35</sub> Single Crystals. <i>Materials</i> , 2021, 14, 7900.	2.9	0
3	Impact of the dangling bond defects and grain boundaries on trapping recombination process in polycrystalline 3C SiC. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153752.	5.5	4
4	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
5	Comparative study of structural, optical and magnetic properties of Er <sup>3+</sup> doped yttrium gallium borates. <i>Results in Physics</i> , 2020, 19, 103247.	4.1	3
6	Ground State Er <sup>3+</sup> Ion in the YGa <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> . <i>Acta Physica Polonica A</i> , 2020, 138, 777-780.	0.5	0
7	Optical and magnetic properties of the ground state of Cr <sup>3+</sup> doping ions in REM <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> single crystals. <i>Scientific Reports</i> , 2019, 9, 12787.	3.3	8
8	EPR Study of Chromium Ions Doped Gallium Borate. <i>Acta Physica Polonica A</i> , 2019, 136, 947-951.	0.5	7
9	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
10	Structural and magnetic properties of YAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> and EuAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> single crystals doped with Co <sup>2+</sup> . <i>Journal of Alloys and Compounds</i> , 2018, 765, 710-720.	5.5	5
11	Temperature behavior of the conduction electrons in the nitrogen-doped 3C SiC monocrystals as studied by electron spin resonance. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	5
12	EPR and luminescence studies of the radiation induced Eu <sup>2+</sup> centers in the EuAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> single crystals. <i>Optical Materials</i> , 2017, 66, 428-433.	3.6	10
13	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
14	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
15	EPR study of the low-spin state of Ru <sup>3+</sup> in the YAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> and EuAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> aluminum borates. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 420, 285-289.	2.3	5
16	Static and dynamic characteristics of the Cr <sup>3+</sup> EPR spectra in the Van Vleck paramagnet TmAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> . <i>Journal of Materials Science</i> , 2016, 51, 4762-4768.	3.7	10
17	EPR study of the ground state of Mn <sup>2+</sup> impurity ions in alumoborates $MAl_3(BO_3)_4$ ( $M = Y, Eu, Tm$ ). <i>Physica Scripta</i> , 2015, 90, 065804.	2.5	10
18	Comparison of EPR spectra of the Gd <sup>3+</sup> ion doped $YAl_3(BO_3)_4$ , $EuAl_3(BO_3)_4$ , and $TmAl_3(BO_3)_4$ single crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 201-205.	1.5	15

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19	On the peculiar properties of triangular-chain $\text{EuCr}_3(\text{BO}_3)_4$ antiferromagnet. <i>Journal of Solid State Chemistry</i> , 2014, 210, 30-35.	2.9	14
20	EPR of $\text{Dy}^{3+}$ ions in $\text{YAl}_3(\text{BO}_3)_4$ and $\text{EuAl}_3(\text{BO}_3)_4$ aluminoborates. <i>Low Temperature Physics</i> , 2014, 40, 730-734.	0.6	11
21	EPR spectra of $\text{Cr}^{3+}$ ion in the Van Vleck paramagnet $\text{EuAl}_3(\text{BO}_3)_4$ . <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1331-1338.	1.5	21
22	EPR of $\text{Nd}^{3+}$ and $\text{Er}^{3+}$ ions in aluminum borates $\text{YAl}_3(\text{BO}_3)_4$ and $\text{EuAl}_3(\text{BO}_3)_4$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 326, 162-165.	2.3	16
23	Temperature and pressure dependences of EPR spectra of $\text{Gd}^{3+}$ ion doped in the $\text{EuAl}_3(\text{BO}_3)_4$ monocystal. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1546-1550.	2.3	17
24	Magnetic and EPR studies of the $\text{EuFe}_3(\text{BO}_3)_4$ single crystal. <i>European Physical Journal B</i> , 2010, 78, 291-298.	1.5	3
25	Electron paramagnetic resonance of $\text{Gd}^{3+}$ ion in monocystal $\text{YAl}_3(\text{BO}_3)_4$ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2617-2621.	1.8	14
26	The EPR of monoclinic $\text{KY}(\text{WO}_4)_2$ single crystal doped with $\text{Sm}^{3+}$ ion. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 1105-1109.	1.5	4
27	The ground state and EPR spectrum in monoclinic $\text{KY}(\text{WO}_4)_2:\text{Nd}^{3+}$ single crystal. <i>Physica B: Condensed Matter</i> , 2008, 403, 3174-3178.	2.7	12
28	Superparamagnetic resonance of single-domain nanoparticles of $\text{LaSrMnO}_3$ . <i>Low Temperature Physics</i> , 2007, 33, 433-438.	0.6	25
29	Magnetic Structure and Microwave Properties of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Ultrafine Particles. , 2007, , .		0
30	EPR of $\text{Yb}^{3+}$ ions in a monoclinic $\text{KY}(\text{WO}_4)_2$ single crystal. <i>European Physical Journal B</i> , 2007, 55, 389-395.	1.5	12
31	EPR studies of phase transitions in perchlorates $[\text{M}^{2+}(\text{ClO}_4)_2 \cdot 6\text{H}_2\text{O}]$ at high pressures. <i>Physics of the Solid State</i> , 2006, 48, 340-347.	0.6	7
32	Magnetic resonances spectroscopy of nanosize particles $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 300, e122-e125.	2.3	29
33	Temperature dependence of the EPR spectrum of $\text{Co}^{2+}$ ion in crystals $\text{Zn}(\text{BF}_4)_2 \cdot 6\text{H}_2\text{O}$ . <i>Physica Status Solidi (B): Basic Research</i> , 2003, 236, 640-644.	1.5	6
34	Electron paramagnetic resonance spectra of $\text{Er}^{3+}$ in the monoclinic $\text{KY}(\text{WO}_4)_2$ crystal. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 5113-5120.	1.8	21
35	PRESSURE AND TEMPERATURE DEPENDENCIES OF ELECTRON PARAMAGNETIC RESONANCE $\text{Mn}^{2+}$ UNDER PHASE TRANSITIONS IN $\text{Zn}(\text{ClO}_4)_2 \cdot 6\text{H}_2\text{O}$ AND $\text{Mg}(\text{ClO}_4)_2 \cdot 6\text{H}_2\text{O}$ . <i>High Pressure Research</i> , 2003, 23, 355-357.	1.2	1
36	EPR of $3d^5$ and $3d^8$ ions in Crystals With Perchlorate Structure at High Pressure. <i>High Pressure Research</i> , 2002, 22, 69-71.	1.2	1

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37	Inversion of spin levels in Ni <sup>2+</sup> : Zn(BF <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O under uniform compression and the effect of transition coincidence. <i>Physics of the Solid State</i> , 2001, 43, 2242-2246.	0.6	5
38	NMR of <sup>57</sup> Fe in RFe <sub>1-x</sub> MnxO <sub>3</sub> orthoferrites. <i>Low Temperature Physics</i> , 2000, 26, 259-264.	0.6	2
39	Effect of hydrostatic pressure and temperature on the EPR spectrum of the Mn <sup>2+</sup> ion in Zn(BF <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O. <i>Physics of the Solid State</i> , 2000, 42, 1134-1138.	0.6	10
40	Temperature variation of the EPR spectra of Dy <sup>3+</sup> in single crystal KY(WO <sub>4</sub> ) <sub>2</sub> . <i>Physical Review B</i> , 2000, 62, 5834-5838.	3.2	18