Vladimir Pankratov

List of Publications by Year
in descending order

89	1,486	257450 24	414414 32
papers	citations	h-index	g-index

89	89	89	1443
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vibrational properties of LaPO4 nanoparticles in mid- and far-infrared domain. Journal of Applied Physics, 2012, 112, .	2.5	55
2	FinEstBeaMS â€“ A wide-range Finnish-Estonian Beamline for Materials Science at the 1.5 GeV storage ring at the MAX IV Laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 859, 83-89.	1.6	55
3	Mechanism for energy transfer processes between Ce3+ and Tb3+ in LaPO4:Ce,Tb nanocrystals by time-resolved luminescence spectroscopy. Physica Status Solidi (B): Basic Research, 2010, 247, 2252-2257.	1.5	52
4	LaPO4:Ce,Tb and YVO4:Eu nanophosphors: Luminescence studies in the vacuum ultraviolet spectral range. Journal of Applied Physics, 2011, 110, 053522.	2.5	48
5	Comparative study of the luminescence properties of macro- and nanocrystalline MgO using synchrotron radiation. Nuclear Instruments & Methods in Physics Research B, 2013, 310, 23-26.	1.4	45
6	Luminescence center excited state absorption in tungstates. Journal of Luminescence, 2001, 94-95, 427-432.	3.1	41
7	Vacancy Defects in Ga2O3: First-Principles Calculations of Electronic Structure. Materials, 2021, 14, 7384.	2.9	40
8	Progress in development of a new luminescence setup at the FinEstBeAMS beamline of the MAX IV laboratory. Radiation Measurements, 2019, 121, 91-98.	1.4	39
9	Luminescence of cerium doped YAG nanopowders. Radiation Measurements, 2007, 42, 679-682.	1.4	38
10	Luminescence of nano- and macrosized LaPO4:Ce,Tb excited by synchrotron radiation. Optical Materials, 2011, 33, 1102-1105.	3.6	38
11	Gold nanoparticles on MoS 2 layered crystal flakes. Materials Chemistry and Physics, 2015, 158, 89-95.	4.0	36
12	Luminescence and ultraviolet excitation spectroscopy of SrI2 and SrI2:Eu2+. Radiation Measurements, 2013, 56, 13-17.	1.4	35
13	Metallic Contact between MoS₂ and Ni via Au Nanoglue. Small, 2018, 14, e1704526.	10.0	32
14	Study of phase composition, photocatalytic activity, and photoluminescence of TiO2 with Eu additive produced by the extraction-pyrolytic method. Journal of Materials Research and Technology, 2021, 13, 2350-2360.	5.8	32
15	Comparing the luminescence processes of YVO4:Eu and core-shell YVO4@YF3 nanocrystals with bulk-YVO4:Eu. Physica B: Condensed Matter, 2017, 504, 80-85.	2.7	30
16	Exciton interaction with Ce3+ and Ce4+ ions in (LuGd)3(Ga,Al)5O12 ceramics. Journal of Luminescence, 2021, 237, 118150.	3.1	29
17	Experimental and theoretical studies of polaron optical properties in KNbO3 perovskite. Solid State Communications, 2004, 129, 691-696.	1.9	28
18	Intrinsic luminescence in yttrium trifluoride. Journal of Luminescence, 2005, 113, 143-150.	3.1	28

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19	Performance and characterization of the FinEstBeAMS beamline at the MAXÂIV Laboratory. Journal of Synchrotron Radiation, 2021, 28, 1620-1630.	2.4	28
20	Stable and transient color centers in Gd3Ga5O12 crystals. Crystal Research and Technology, 2004, 39, 788-795.	1.3	27
21	Luminescence Properties of ZnO Nanocrystals and Ceramics. IEEE Transactions on Nuclear Science, 2008, 55, 1551-1555.	2.0	27
22	Luminescence and transient absorption in ZnWO4 and ZnWO4â€“Fe crystals. Radiation Measurements, 2001, 33, 645-648.	1.4	26
23	Luminescence Properties and Energy Transfer Processes in Nanosized Cerium Doped YAG. IEEE Transactions on Nuclear Science, 2008, 55, 1509-1513.	2.0	25
24	Vertical charge-carrier transport in Si nanocrystal/SiO₂multilayer structures. Nanotechnology, 2009, 20, 195201.	2.6	24
25	Si nanocrystals embedded in SiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>: Optical studies in the vacuum ultraviolet range. Physical Review B, 2011, 83, .	3.2	24
26	Time-resolved luminescence and excitation spectroscopy of co-doped Gd3Ga3Al2O12 scintillating crystals. Scientific Reports, 2020, 10, 20388.	3.3	24
27	Transient absorption and luminescence of LiNbO3 and KNbO3. Integrated Ferroelectrics, 2001, 35, 137-149.	0.7	22
28	Microwave-assisted ionic-liquid-based synthesis of highly crystalline CaMoO4:RE3+ (REÂ=ÂTb, Sm, Eu) and Y2Mo4O15:Eu3+ nanoparticles. Solid State Sciences, 2015, 41, 56-62.	3.2	22
29	Intrinsic luminescence and energy transfer processes in pure and doped YVO4 crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 801-804.	0.8	21
30	Synchrotron radiation studies on luminescence of Eu2+-doped LaCl3 microcrystals embedded in a NaCl matrix. Nuclear Instruments & Methods in Physics Research B, 2012, 274, 78-82.	1.4	21
31	Oxygen influence on luminescence properties of rare-earth doped NaLaF 4. Journal of Luminescence, 2016, 179, 16-20.	3.1	21
32	Luminescence and vacuum ultraviolet excitation spectroscopy of samarium doped SrB4O7. Journal of Alloys and Compounds, 2020, 826, 154205.	5.5	21
33	The study of time-resolved absorption and luminescence in PbWO4 crystals. Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 329-333.	1.4	20
34	Luminescence spectroscopy under synchrotron radiation: From SUPERLUMI to FINESTLUMI. Nuclear Instruments & Methods in Physics Research B, 2020, 474, 35-40.	1.4	19
35	Energy transfer of the quantum-cutter couple Pr 3+ â€“Mn 2+ in CaF 2 :Pr 3+ , Mn 2+ nanoparticles. Journal of Luminescence, 2016, 179, 555-561.	3.1	18
36	Peculiarities of luminescent properties of cerium doped YAG transparent nanoceramics. Radiation Measurements, 2010, 45, 392-394.	1.4	17

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37	Electronic excitations in ZnWO4 and ZnxNi1âˆ’x WO4 (x = 0.1 âˆ’ 0.9) using VUV synchrotron radiation. Open Physics, 2011, 9, .	1.7	17
38	Time resolved luminescence spectroscopy of CsPbBr3 single crystal. Journal of Luminescence, 2020, 225, 117346.	3.1	17
39	Luminescence and vacuum ultraviolet excitation spectroscopy of cerium doped Gd3Ga3Al2O12 single crystalline scintillators under synchrotron radiation excitations. Results in Physics, 2020, 16, 103002.	4.1	17
40	UV-VUV synchrotron radiation spectroscopy of NiWO4. Low Temperature Physics, 2016, 42, 543-546.	0.6	15
41	Emerging blueâ€UV luminescence in cerium doped YAG nanocrystals. Physica Status Solidi - Rapid Research Letters, 2016, 10, 475-479.	2.4	15
42	Theoretical and experimental study of primary radiation defects in KNbO3 perovskite crystals. Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 299-304.	1.4	14
43	The role of Fe and Cu dopants in electronâ€“hole trapping and relaxation process in congruent LiNbO3. Optical Materials, 2003, 22, 257-262.	3.6	14
44	Luminescence of divalent lanthanide doped BaBrI single crystal under synchrotron radiation excitations. Nuclear Instruments & Methods in Physics Research B, 2020, 467, 17-20.	1.4	14
45	Time-Resolved Luminescence Characteristics of Cerium Doped YAG Nanocrystals. Solid State Phenomena, 0, 128, 173-178.	0.3	13
46	Vacuum ultraviolet excitation luminescence spectroscopy of few-layered MoS₂. Journal of Physics Condensed Matter, 2016, 28, 015301.	1.8	13
47	Sol-gel preparation of nanocrystalline CaWO4. Lithuanian Journal of Physics, 2007, 47, 63-68.	0.4	13
48	Ab-Initio Calculations of Oxygen Vacancy in Ga₂O₃ Crystals. Latvian Journal of Physics and Technical Sciences, 2021, 58, 3-10.	0.6	12
49	Transient and stable color centers in pure and Cu-doped LiNbO3. Crystal Research and Technology, 2003, 38, 388-393.	1.3	11
50	Excitonic luminescence in ZnO nanopowders and ceramics. Optical Materials, 2009, 31, 1825-1827.	3.6	11
51	BiI3 nanoclusters in melt-grown CdI2 crystals studied by optical absorption spectroscopy. Physica B: Condensed Matter, 2013, 413, 12-14.	2.7	11
52	Band Gap Engineering and Trap Depths of Intrinsic Point Defects in RAlO₃ (R = Y, La, Gd, Yb,) Tj ETQq0 0 0 rgBT /Overlock	3.1	11
53	The energy transfer to the luminescence centers in PbWO4. Radiation Measurements, 1998, 29, 263-266.	1.4	10
54	ZnO nanocrystals/SiO2 multilayer structures fabricated by RF-magnetron sputtering. Physica B: Condensed Matter, 2009, 404, 4827-4830.	2.7	10

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55	Transient Optical Absorption and Luminescence in Calcium Tungstate Crystal. Physica Status Solidi (B): Basic Research, 2001, 225, R9-R11.	1.5	9
56	Pulsed electron beam excited transient absorption in SrTiO3. Nuclear Instruments & Methods in Physics Research B, 2002, 194, 469-473.	1.4	9
57	Transient and near-edge absorption in YVO4 crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1155-1158.	0.8	9
58	Time-resolved cathodoluminescence and photoluminescence of nanoscale oxides. Journal of the European Ceramic Society, 2009, 29, 255-259.	5.7	9
59	Defect-related photoluminescence and photoluminescence excitation as a method to study the excitonic bandgap of AlN epitaxial layers: Experimental and ab initio analysis. Applied Physics Letters, 2020, 117, .	3.3	9
60	Induced optical absorption and ITS relaxation in LiNbO₃. Radiation Effects and Defects in Solids, 1999, 150, 193-198.	1.2	7
61	Iron-related luminescence centers in ZnWO 4 :Fe. Radiation Effects and Defects in Solids, 2002, 157, 1123-1126.	1.2	7
62	X-RAY PHOTOEMISSION ELECTRON MICROSCOPE DETERMINATION OF ORIGINS OF ROOM TEMPERATURE FERROMAGNETISM AND PHOTOLUMINESCENCE IN HIGHCo-CONTENTCo_xZn_{1-x}OFILMS. Surface Review and Letters, 2014, 21, 1450058.	1.1	7
63	Separation of valence states in thin films with mixed V2O5 and V7O16 phases. Journal of Electron Spectroscopy and Related Phenomena, 2016, 211, 47-54.	1.7	7
64	Untangling the controversy on Ce³⁺ luminescence in LaAlO₃ crystals. Materials Advances, 2022, 3, 3500-3512.	5.4	7
65	Relaxation of electronic excitations in LiNbO3crystals. Ferroelectrics, 2001, 257, 281-292.	0.6	6
66	Transient color centers in GGG crystals. Radiation Effects and Defects in Solids, 2002, 157, 709-713.	1.2	6
67	Time-resolved luminescence of nanocrystalline inorganic complex oxides. Journal of Physics: Conference Series, 2007, 93, 012037.	0.4	6
68	Transient absorption of polarons in KNbO3. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 98-101.	1.4	5
69	Time-Resolved Spectroscopy in ZnWo4and ZnWO4:Fe. Radiation Effects and Defects in Solids, 2003, 158, 135-139.	1.2	4
70	Blue luminescence in ZnO single crystals, nanopowders, ceramic. Journal of Physics: Conference Series, 2007, 93, 012036.	0.4	4
71	Luminescence of ODC(II) in quartz and cristobalite glasses. Journal of Non-Crystalline Solids, 2022, 575, 121199.	3.1	4
72	Luminescence and Vacuum Ultraviolet Excitation Spectroscopy of Nanophosphors under Synchrotron Irradiation. Physica Status Solidi (B): Basic Research, 2022, 259, .	1.5	4

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73	Exciton emission and defect formation in yttrium trifluoride. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 371-374.	0.8	3
74	Low-temperature luminescence of ScF3 single crystals under excitation by VUV synchrotron radiation. Low Temperature Physics, 2020, 46, 1196-1200.	0.6	3
75	Luminescence of biexcitons in silver halide crystals. Journal of Luminescence, 1998, 76-77, 408-410.	3.1	2
76	Relaxation of electronic excitations in strontium titanate. Radiation Effects and Defects in Solids, 2002, 157, 589-593.	1.2	2
77	Transient Absorption of Niobium States in Photorefractive Materials. Ferroelectrics, 2003, 296, 75-81.	0.6	2
78	Flight to Mars and radiation defects in Li2B4O7 and KTiOPO4 crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1288-1292.	0.8	2
79	First Principles Calculations of Atomic and Electronic Structure of TiAl3+- and TiAl2+-Doped YAlO3. Materials, 2021, 14, 5589.	2.9	2
80	Optical properties of powder and ceramics of aluminium oxynitride obtained by self-propagating high-temperature synthesis. Lithuanian Journal of Physics, 2021, 61, .	0.4	2
81	Time-resolved spectroscopy of ZnWO₄. Radiation Effects and Defects in Solids, 2001, 155, 317-321.	1.2	1
82	Quantification of Bonded Ni Atoms for M-M0S2 Metallic Contact through X-ray Photoemission Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 458-459.	0.4	1
83	Low-temperature luminescence of catangasite single crystals under excitation by vacuum ultraviolet synchrotron radiation. Low Temperature Physics, 2020, 46, 1178-1184.	0.6	1
84	Transient absorption spectra and relaxation kinetics in Nb-doped PbWO4 scintillating crystals. Radiation Measurements, 2001, 33, 659-662.	1.4	0
85	Polar nanoregions in Pb(Mg1/3Nb2/3)O3 (PMN): insights from a supercell approach. Open Physics, 2011, 9, 438-445.	1.7	0
86	Numerical Evidences of Polarization Switching in PMN Type Relaxor Ferroelectrics. Integrated Ferroelectrics, 2011, 123, 32-39.	0.7	0
87	The Model for Luminescence Center Excitation in PbWO₄. Acta Physica Polonica A, 1999, 95, 971-976.	0.5	0
88	Low-temperature luminescence of CdI2 under synchrotron radiation. Low Temperature Physics, 2020, 46, 1213-1216.	0.6	0
89	Toward On-Line Slag Composition Analysis: Optical Emissions from Laboratory Electric Arc. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 454-465.	2.1	0