Dmitry A Spassky

List of Publications by Year
in descending order

121 papers	2,561 citations	186265 28 h-index	243625 44 g-index
121 all docs	121 docs citations	121 times ranked	1885 citing authors

#	Article	IF	Citations
1	Single-crystalline films of Ce-doped YAG and LuAG phosphors: advantages over bulk crystals analogues. Journal of Luminescence, 2005, 114, 85-94.	3.1	172
2	Exciton and antisite defect-related luminescence in Lu3Al5O12 and Y3Al5O12 garnets. Physica Status Solidi (B): Basic Research, 2007, 244, 2180-2189.	1.5	149
3	Optical and luminescent properties of anisotropic tungstate crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 496-503.	1.6	98
4	Optical and luminescent properties of the lead and barium molybdates. Radiation Measurements, 2004, 38, 607-610.	1.4	94
5	Single crystalline film scintillators based on Ce- and Pr-doped aluminium garnets. Radiation Measurements, 2007, 42, 521-527.	1.4	92
6	Optical and luminescent properties of a series of molybdate single crystals of scheelite crystal structure. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 65-68.	0.8	63
7	Charge transfer fluorescence and fâ€“f luminescence in ytterbium compounds. Optical Materials, 2003, 24, 267-274.	3.6	61
8	Trap centers in molybdates. Optical Materials, 2013, 35, 2465-2472.	3.6	60
9	Luminescence of excitons and antisite defects in the phosphors based on garnet compounds. Radiation Measurements, 2004, 38, 677-680.	1.4	56
10	Peculiarities of luminescence and scintillation properties of YAP:Ce and LuAP:Ce single crystals and single crystalline films. Radiation Measurements, 2007, 42, 528-532.	1.4	55
11	Crystal field splitting of 5d states and luminescence mechanism in SrAl2O4:Eu2+ phosphor. Journal of Luminescence, 2017, 182, 79-86.	3.1	51
12	Energy transfer to ions in single crystalline films. Radiation Measurements, 2007, 42, 648-651.	1.4	50
13	Structural and electronic properties of SrAl2O4:Eu2+ from density functional theory calculations. Journal of Alloys and Compounds, 2013, 573, 6-10.	5.5	50
14	Luminescence investigation of zinc molybdate single crystals. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1579-1583.	1.8	49
15	Electronic structure and luminescence mechanisms in ZnMoO₄crystals. Journal of Physics Condensed Matter, 2011, 23, 365501.	1.8	45
16	Ca8MgSm1â€“(PO4)7:xEu3+, promising red phosphors for WLED application. Journal of Alloys and Compounds, 2019, 776, 897-903.	5.5	45
17	Exciton-related luminescence in LuAG:Ce single crystals and single crystalline films. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1113-1119.	1.8	44
18	Low temperature luminescence of ZnMoO4 single crystals grown by low temperature gradient Czochralski technique. Optical Materials, 2012, 34, 1804-1810.	3.6	42

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19	Charge-transfer luminescence and spectroscopic properties of Yb3+ in aluminium and gallium garnets. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 278-282.	1.6	39
20	Luminescence and energy transfer mechanisms in CaWO4 single crystals. Journal of Luminescence, 2012, 132, 2753-2762.	3.1	39
21	A novel red Ca8.5Pb0.5Eu(PO4)7 phosphor for light emitting diodes application. Journal of Alloys and Compounds, 2015, 647, 965-972.	5.5	38
22	Low temperature luminescence and charge carrier trapping in a cryogenic scintillator Li2MoO4. Journal of Luminescence, 2015, 166, 195-202.	3.1	35
23	Excitation energy transfer to luminescence centers in MIIMoO4 (MII=Ca, Sr, Zn, Pb) and Li2MoO4. Journal of Luminescence, 2017, 186, 229-237.	3.1	35
24	Optical and luminescence properties of CdWO4 and CdWO4:Mo single crystals. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 104, 366-373.	0.6	34
25	Luminescence peculiarities and optical properties of MgMoO4 and MgMoO4:Yb crystals. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2009, 106, 556-563.	0.6	32
26	Scintillation yield of hot intraband luminescence. Journal of Luminescence, 2018, 198, 260-271.	3.1	31
27	Luminescence of excitons and antisite defects in Lu3Al5O12:Ce single crystals and single-crystal films. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 99, 923-931.	0.6	28
28	Luminescence study of the LuBO3 and LuPO4 doped with RE3+. Radiation Measurements, 2010, 45, 307-310.	1.4	28
29	Energy transfer in solid solutions ZnxMg1â^’xWO4. Optical Materials, 2014, 36, 1660-1664.	3.6	28
30	VUV spectroscopy of pure LiCaAlF6 crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 537, 291-294.	1.6	25
31	Luminescence spectroscopy of excitons and antisite defects in Lu3Al5O12 single crystals and single-crystal films. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 104, 75-87.	0.6	25
32	The features of energy transfer to the emission centers in ZnWO4 and ZnWO4:Mo. Journal of Luminescence, 2013, 144, 105-111.	3.1	24
33	Electron Spin Resonance study of charge trapping in Î±-ZnMoO4 single crystal scintillator. Optical Materials, 2015, 47, 244-250.	3.6	24
34	Luminescence of Eu³⁺as a probe for the determination of the local site symmetry in Î²-Ca₃(PO₄)₂-related structures. CrystEngComm, 2019, 21, 5235-5242.	2.6	24
35	Luminescence Properties of the Yttrium and Gadolinium Tantalo-Niobates. Solid State Phenomena, 0, 230, 172-177.	0.3	23
36	Luminescent, optical and electronic properties of Na2Mo2O7 single crystals. Journal of Luminescence, 2017, 192, 1264-1272.	3.1	23

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37	Bandgap engineering of the Lu Y1â˘’PO4 mixed crystals. Journal of Luminescence, 2016, 171, 33-39.	3.1	21
38	Anisotropy of optical properties of scheelite tungstates in the fundamental absorption region. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 470, 270-273.	1.6	20
39	The influence of second coordination-sphere interactions on the luminescent properties of Î²-Ca3(PO4)2-related compounds. Journal of Alloys and Compounds, 2020, 815, 152352.	5.5	20
40	Diamondâ€“Rare Earth Composites with Embedded NaGdF₄:Eu Nanoparticles as Robust Photo- and X-ray-Luminescent Materials for Radiation Monitoring Screens. ACS Applied Nano Materials, 2020, 3, 1324-1331.	5.0	20
41	Fast luminescence of HfO2â€“Yb2O3 and ZrO2â€“Yb2O3 solid solutions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 234-238.	1.6	19
42	Mechanisms of luminescence decay in YAG-Ce,Mg fibers excited by Î³- and X-rays. Optical Materials, 2019, 92, 341-346.	3.6	19
43	Role of the Eu³⁺ Distribution on the Properties of Î²-Ca₃(PO₄)₂ Phosphors: Structural, Luminescent, and ¹⁵¹Eu MÃ¶ssbauer Spectroscopy Study of Ca_{9.5â€“1.5<i>x</i>}MgEu_{<i>x</i>}(PO₄)₇. Inorganic Chemistry, 2021, 60, 3961-3971.	4.0	18
44	Intrinsic and ${m Ce}^{3+}$-Related Luminescence in Single Crystalline Films and Single Crystals of LuAP and LuAP:Ce Perovskites. IEEE Transactions on Nuclear Science, 2008, 55, 1192-1196.	2.0	17
45	Phonon-assisted optical bands of nanosized powdery SrAl2O4:Eu2+ crystals: Evidence of a multimode Pekarian. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 3170-3178.	2.1	17
46	Fast ultradense GdTa1-xNbxO4 scintillator crystals. Optical Materials, 2017, 66, 332-337.	3.6	17
47	Synthesis and luminescence properties of BaHfO3: Pr ceramics. Journal of Luminescence, 2017, 189, 148-152.	3.1	17
48	Energy transfer in pure and Ce-doped LiCaAlF6 and LiSrAlF6 crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 537, 266-270.	1.6	16
49	Optical, luminescent and laser properties of highly transparent ytterbium doped yttrium lanthanum oxide ceramics. Optical Materials, 2015, 50, 15-20.	3.6	16
50	Nonlinear behavior of structural and luminescent properties in Gd(NbxTa1-x)O4 mixed crystals. Optical Materials, 2018, 76, 382-387.	3.6	16
51	Incommensurately Modulated Structures and Luminescence Properties of the Ag_{<i>x</i>}Sm_{(2â€“<i>x</i>)/3}WO₄ (<i>x</i> = 0.286, 0.2) Scheelites as Thermographic Phosphors. Chemistry of Materials, 2018, 30, 4788-4798.	6.7	15
52	Influence of the Sc cation substituent on the structural properties and energy transfer processes in GAGG:Ce crystals. CrystEngComm, 2020, 22, 2621-2631.	2.6	15
53	Exciton creation in LuAlO3 single crystalline film. Physica Status Solidi (B): Basic Research, 2006, 243, R60-R62.	1.5	14
54	Study of the defects in La3Ta0.5Ga5.5O14 single crystals. Journal of Luminescence, 2016, 180, 95-102.	3.1	14

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55	Emission centers in ZnMoO4: Influence of growth conditions and decay characteristics. Optical Materials, 2016, 59, 66-69.	3.6	14
56	Study of optical and luminescent properties of some inorganic scintillators in the fundamental absorption region. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 367-373.	1.6	13
57	Luminescence properties of solid solutions LuxY1-xPO4:Eu3+. Optical Materials, 2018, 75, 607-611.	3.6	13
58	SrAl2O4:Eu2+ (1%) luminescence under UV, VUV and electron beam excitation. Optical Materials, 2018, 75, 448-452.	3.6	13
59	Tunable luminescence and energy transfer in Eu3+ doped Ca8MTb(PO4)7 (M = Mg, Zn, Ca) phosphors. Materials Research Bulletin, 2020, 130, 110925.	5.2	13
60	Luminescence of excitons in single-crystal garnets. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.6	12
61	Luminescence and ESR characteristics of Î³-irradiated Lu3Al5O12:Ce single crystalline film scintillators. Radiation Measurements, 2010, 45, 419-421.	1.4	12
62	Luminescence of borates with yttrium and lutetium cations. Physics of the Solid State, 2013, 55, 150-159.	0.6	12
63	Novel laser crystals in Ca9Y(VO4)7-x(PO4)x mixed system. Journal of Alloys and Compounds, 2017, 708, 285-293.	5.5	12
64	Excitation density effects in luminescence properties of CaMoO4 and ZnMoO4. Optical Materials, 2019, 90, 7-13.	3.6	12
65	Structural, optical and luminescent properties of undoped Gd3AlxGa5-xO12 (x = 0,1,2,3) and Gd2YAl2Ga3O12 single crystals. Optical Materials, 2022, 125, 112079.	3.6	12
66	Luminescence properties of solid solutions of borates doped with rare-earth ions. Physics of the Solid State, 2014, 56, 2247-2258.	0.6	11
67	Composition effect in luminescence properties of Y(NbxTa1-x)O4 mixed crystals. Optical Materials, 2018, 80, 247-252.	3.6	11
68	Luminescent properties of Pb2MoO5 single crystals. Optical Materials, 2015, 42, 430-434.	3.6	10
69	Luminescent, optical and electronic properties of La 3 Ta 0.5 Ga 5.5 O 14 single crystals grown in different atmospheres. Journal of Luminescence, 2016, 177, 152-159.	3.1	10
70	Urbach Rule and Estimation of the Energy Gap Width in Molybdates. Physics of the Solid State, 2020, 62, 1325-1332.	0.6	10
71	Numerical simulation of energy relaxation processes in a ZnMoO4 single crystal. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2012, 112, 72-78.	0.6	9
72	A novel high color purity blue-emitting Tm3+-doped Î²-Ca3(PO4)2-type phosphor for WLED application. Optik, 2021, 227, 166027.	2.9	9

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73	Sr8MSm1-Eu (PO4)7 phosphors derived by different synthesis routes: Solid state, sol-gel and hydrothermal, the comparison of properties. Journal of Alloys and Compounds, 2021, 887, 161340.	5.5	9
74	Optical and luminescence properties of complex lead oxides. IEEE Transactions on Nuclear Science, 2001, 48, 2324-2329.	2.0	8
75	Spectroscopic Features of Silica Glasses Doped with Tin. Glass Physics and Chemistry, 2002, 28, 379-388.	0.7	8
76	Cation influence on exciton localization in homologue scheelites. Journal of Physics Condensed Matter, 2015, 27, 385501.	1.8	8
77	Time-resolved luminescence spectroscopy of structurally disordered K3WO3F3 crystals. Optical Materials, 2016, 58, 285-289.	3.6	8
78	KTb(MoO₄)₂ Green Phosphor with K⁺-Ion Conductivity: Derived from Different Synthesis Routes. Inorganic Chemistry, 2021, 60, 9471-9483.	4.0	8
79	Title is missing!. Glass Physics and Chemistry, 2003, 29, 232-236.	0.7	7
80	Electronic properties of undoped LiBaAlF_6 single crystals: far-ultraviolet optical, luminescence, and x-ray photoelectron spectroscopy studies. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1926.	2.1	7
81	Mixed vanadates: Optimization of optical properties by varying chemical composition. Journal of Luminescence, 2017, 189, 140-147.	3.1	7
82	Influence of annealing conditions on the structure and luminescence properties of KGd_{1â^’x}Eu_x(MoO₄)₂ (0 â‰ <i>x</i> â‰ 1). CrystEngComm, 2019, 21, 6460-6471.	2.6	7
83	Energy transfer to luminescent impurity by thermally quenching excitons in CdWO4:Sm. Journal of Luminescence, 2020, 228, 117609.	3.1	7
84	Electron and hole trapping in Li2MoO4 cryogenic scintillator. Optical Materials, 2021, 114, 110971.	3.6	7
85	K₅Eu_{1â€“<i>x</i>}Tb<i>_x</i>(MoO₄)₄ Phosphors for Solid-State Lighting Applications: Aperiodic Structures and the Tb³⁺ â†’ Eu³⁺ Energy Transfer. Inorganic Chemistry, 2022, 61, 7910-7921.	4.0	7
86	VUV-spectroscopy of anisotropic crystals using polarized synchrotron radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 1423-1425.	1.6	6
87	Optical properties and luminescence centres of lead tungstate, sulphate and carbonate. Radiation Effects and Defects in Solids, 2001, 154, 307-311.	1.2	6
88	Effect of Gd2O3 concentration in Bi-containing high-temperature solutions on the luminescence of epitaxial Gd3Ga5O12 films. Inorganic Materials, 2009, 45, 418-422.	0.8	6
89	Luminescence of PbWO4 single crystals doped with fluorine. Journal of Applied Spectroscopy, 2012, 79, 211-218.	0.7	6
90	Luminescent and structural properties of ZnxMg1-xWO4 mixed crystals. Radiation Measurements, 2016, 90, 43-46.	1.4	6

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91	Optical properties, defects, and composition of La3Ga5.5Ta0.5O14 crystals. Inorganic Materials, 2017, 53, 502-509.	0.8	6
92	Crystal growth and luminescent properties of LiNa5Mo9O30. Journal of Crystal Growth, 2019, 519, 35-40.	1.5	6
93	Time-resolved luminescence Z-scan of CsI using power femtosecond laser pulses. Radiation Measurements, 2019, 124, 1-8.	1.4	6
94	Luminescent and structural properties of ScxY1-xVO4:Eu3+ solid solutions. Journal of Luminescence, 2021, 240, 118448.	3.1	6
95	Novel NASICON-type Na3.6Y1.8-(PO4)3:xDy3+ phosphor: Structure and luminescence. Optical Materials, 2021, 122, 111738.	3.6	6
96	Â«EllestaditeÂ»-type anionic [PO4]3â€" â†' [SO4]2â€" substitutions in Î²-Ca3(PO4)2 type compounds: A new route to design the inorganic phosphors. Ceramics International, 2022, 48, 24012-24020.	4.8	6
97	Influence of peculiarities of electronic excitation relaxation on luminescent properties of MgWO4. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2016, 121, 45-51.	0.6	5
98	Ultrafast and slow Mn2+ luminescence in lithium tetraborate. Journal of Alloys and Compounds, 2021, 883, 160852.	5.5	5
99	Cathodoluminescent UV-radiation sources. , 2018, , .		5
100	Luminescence of gadolinium garnet single crystals excited by synchrotron radiation. Technical Physics Letters, 2006, 32, 194-196.	0.7	4
101	Temperature dependence of the PbWO4:F,Eu luminescence. Radiation Measurements, 2007, 42, 887-890.	1.4	4
102	Optical spectroscopy of Ce3+ ions in Gd3(AlxGa1â^'x)5O12 epitaxial films. Materials Research Bulletin, 2013, 48, 4687-4692.	5.2	4
103	Effect of Al and Ce ion concentrations on the optical absorption and luminescence in Gd3(Al,Ga)5O12:Ce3+ epitaxial films. Inorganic Materials, 2015, 51, 1008-1016.	0.8	4
104	Optical and luminescent VUV spectroscopy using synchrotron radiation. Crystallography Reports, 2016, 61, 886-896.	0.6	4
105	(Ca,Mg)9Gd1 â€"xEux(PO4)7 Red Phosphors Activated with Gd3+ and Eu3+. Inorganic Materials, 2019, 55, 810-814.	0.8	4
106	Enhancement of Light Output in ScxY1â^'xPO4:Eu3+ Solid Solutions. Symmetry, 2020, 12, 946.	2.2	4
107	Influence of anionic substitutions on the luminescent properties of Ca9.75Eu0.5(VO4)7. Journal of Solid State Chemistry, 2022, 308, 122884.	2.9	4
108	Spectral and luminescence properties of gadolinium gallium garnet epitaxial films doped with terbium. Physics of the Solid State, 2007, 49, 478-483.	0.6	3

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109	Luminescence of singlet self-trapped excitons in MgF₂. Journal of Physics Condensed Matter, 2009, 21, 375501.	1.8	3
110	Study of charge carrier trapping by EPR and TSL methods in ZnxMg1-xWO4 single crystals. Optical Materials, 2019, 96, 109362.	3.6	3
111	Luminescence of fluorohafnate glasses. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 288-291.	1.6	2
112	Influence of growth atmosphere on Ca3TaGa3Si2O14single crystals optical properties. IOP Conference Series: Materials Science and Engineering, 2017, 169, 012018.	0.6	2
113	Study of the optical absorption and photoluminescence in (Pb,Gd)3(Al,Ga)5O12 : Ce epitaxial films grown from Pb-containing melt solutions. Quantum Electronics, 2017, 47, 922-926.	1.0	2
114	Luminescence Properties of Undoped Langasite Crystals. Physics of the Solid State, 2019, 61, 307-314.	0.6	2
115	Epitaxial growth of Ce-doped (Pb,Gd)3(Al,Ga)5O12 films and their optical and scintillation properties. Journal of Science: Advanced Materials and Devices, 2020, 5, 95-103.	3.1	2
116	Structural Features of ZnxMg1Ââ€"ÂxWO4 Mixed Crystals. Crystallography Reports, 2020, 65, 857-861.	0.6	1
117	POLARIZATION PROPERTIES OF SYNCHROTRON RADIATION IN THE STUDY OF ANISOTROPIC INSULATING CRYSTALS. Surface Review and Letters, 2002, 09, 469-472.	1.1	0
118	Terbium-doped garnet single crystals as X-ray-sensitive phosphors. Technical Physics Letters, 2006, 32, 958-959.	0.7	0
119	Luminescence of gadolinium gallium garnet epitaxial films under excitation by synchrotron radiation. Physics of the Solid State, 2006, 48, 2097-2099.	0.6	0
120	Luminescent properties of LuAG:Yb and YAG:Yb single crystalline films grown by Liquid Phase Epitaxy method. Radiation Measurements, 2016, 90, 132-135.	1.4	0
121	Whitlockite-Type Structure as a Matrix for Optical Materials: Synthesis and Characterization of Novel TM-SM Co-Doped Phosphate Ca9Gd(PO4)7, a Single-Phase White Light Phosphors. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlo	2.6	0