Igor Avetissov

List of Publications by Year in descending order

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92	610	687220 13	752573 20
papers	citations	h-index	g-index

92	92	92	533
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	One-Step Synthesis of High Pure Tris(8-hydroxyquinoline)aluminum for Optics and Photonics. Materials, 2022, 15, 734.	1.3	4
2	NIR-OLED structures based on lanthanide coordination compounds: synthesis and luminescent properties. Journal of Materials Science, 2022, 57, 8393-8405.	1.7	3
3	Growth of BPO₄ Crystals in Low Temperature Gradients. Crystal Research and Technology, 2022, 57, .	0.6	0
4	Luminescent properties of organicâ€“inorganic hybrid films fabricated by capillary coating technique. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	8
5	Synthesis of high pure crystalline paratellurite by chemical combustion reaction. Journal of Alloys and Compounds, 2021, 855, 157510.	2.8	1
6	Sensitivity of future liquid argon dark matter search experiments to core-collapse supernova neutrinos. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 043.	1.9	12
7	Separating $${^{39}hbox {Ar}}$$ from $${^{40}hbox {Ar}}$$ by cryogenic distillation with Aria for dark-matter searches. European Physical Journal C, 2021, 81, 1.	1.4	12
8	High Purity Tungsten (VI) Oxide for Obtaining Promising Laser Materials. Glass and Ceramics (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.2	0
9	Hybrid Ultra-Low-Radioactive Material for Protecting Dark Matter Detector from Background Neutrons. Materials, 2021, 14, 3757.	1.3	0
10	Gadolinium-Based Hybrid Ultra-Low-Background Material for Protecting the Darkside20k Dark Matter Detector from Background Neutrons. Glass and Ceramics (English Translation of Steklo I Keramika), 2021, 78, 91-96.	0.2	0
11	Infrared Luminescent Hybrid Materials Based on Inorganic Glass Matrices. Glass and Ceramics (English) Tj ETQq1 1 0.784314 rgBT /Over	0.2	1
12	New efficient lighting device. Part 1. hybrid materials based on inorganic aerogel and metal-organic phosphor. Journal of Solid State Chemistry, 2021, 302, 122358.	1.4	4
13	Luminescent properties of solid solutions in the PbF2-EuF3 and PbF2â€“ErF3 systems. Journal of Luminescence, 2021, 238, 118262.	1.5	1
14	Effect of high purity molybdenum oxide(<scp>vi</scp>) on crystal growth and OLED technology. CrystEngComm, 2021, 23, 8276-8290.	1.3	3
15	First test of a Li<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e373" altimg="si7.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>WO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e381" altimg="si8.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:math>(Mo) bolometric detector	0.7	16
16	Nd/La, Nd/Lu-co-doped transparent lead fluoroborate glass-ceramics. Journal of Non-Crystalline Solids, 2020, 531, 119858.	1.5	6
17	Extra pure tellurium oxide for the growth of high quality paratellurite crystals. IOP Conference Series: Materials Science and Engineering, 2019, 613, 012021.	0.3	1
18	Crystal growth and luminescent properties of LiNa5Mo9O30. Journal of Crystal Growth, 2019, 519, 35-40.	0.7	6

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19	Optical Properties Transformation under Laser Treatment of Hybrid Organicâ€“Inorganic Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800647.	0.8	1
20	Organo-Inorganic Luminescent Hybrid Materials Based on Lead Fluoride and Organic Phosphors. , 2019, , .		1
21	Effect of the Accidental Impurities onto the Absorption Spectrum of NaGd(WO4)2 Laser Crystal. , 2019, , .		1
22	Effect of Uncontrollable Impurities on the Absorption Spectrum of a NaGd(WO4)2 Laser Crystal. Physics of the Solid State, 2019, 61, 2407-2411.	0.2	0
23	A novel candle light-style OLED with a record low colour temperature. Chemical Communications, 2019, 55, 13354-13357.	2.2	22
24	Luminescent hybrid materials based on metal-organic phosphors in PbF2 powder and PbF2-containing glass matrix. Optical Materials, 2019, 88, 378-384.	1.7	6
25	Fundamentals of organometallic electrophosphors synthesis under controlled temperature and ligand partial pressure. Dyes and Pigments, 2019, 161, 482-488.	2.0	1
26	The effect of borate glass matrix on the luminescence properties of organicâ€“inorganic hybrid materials. Journal of Commonwealth Law and Legal Education, 2019, 60, 140-145.	0.2	2
27	New Pt(II) complex with extra pure green emission for OLED application: synthesis, crystal structure and spectral properties. Journal of Organometallic Chemistry, 2018, 867, 253-260.	0.8	16
28	To the homogeneity range of tris(8-hydroxyquinoline)gallium. CrystEngComm, 2018, 20, 930-936.	1.3	2
29	Luminescent Glassâ€Ceramics Based on Nanoparticles of Ba_xRE_{1â€x}F_{2+x} and Pb_xRE_{1â€x}F_{2+x} Solid Solutions into Fluoroborate. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700446.	0.8	3
30	Hot-pressed production and laser properties of ZnSe:Fe 2+. Journal of Crystal Growth, 2018, 491, 36-41.	0.7	24
31	Investigations of Nanoscale Defects in Crystalline and Powder ZnSe Doped With Fe for Laser Application. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700457.	0.8	5
32	Potassium-cobalt sulphate crystal growth assisted by low frequency vibrations. Journal of Crystal Growth, 2018, 483, 31-38.	0.7	1
33	Mechanical and optical properties of hybrid materials based on inorganic glass matrix and organic metal complex phosphors. Journal of Physics: Conference Series, 2018, 1045, 012006.	0.3	2
34	Application of tris-(8-hydroxyquinoline) aluminium (III) with controlled defect structure in OLED. , 2018, , .		0
35	Effect of inorganic matrix composition on luminescent properties of hybrid materials. , 2018, , .		0
36	The doping and heat-treatment influence on spectral properties of Bi-Ge-O glasses. , 2018, , .		2

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37	Pt (II)-based complexes with ligands of 8-hydroxyquinoline and its 2-methyl derivative for OLED. , 2018, , .		0
38	The Homogeneity Range of Crystalline Tris(8-hydroxyquinoline)gallium. Doklady Chemistry, 2018, 480, 85-88.	0.2	0
39	Li2MoO4 crystal growth from solution activated by low-frequency vibrations. Journal of Crystal Growth, 2017, 457, 151-157.	0.7	7
40	Nonstoichiometry and luminescent properties of ZnSe crystals grown from the melt at high pressures. Journal of Crystal Growth, 2017, 457, 331-336.	0.7	5
41	Luminescent hybrid materials based on (8-hydroxyquinoline)-substituted metal-organic complexes and lead-borate glasses. Optical Materials, 2017, 69, 141-147.	1.7	15
42	Optical properties transformations under heat and laser treatment of glasses in the Biâ€“Geâ€“O system. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	0
43	Luminescent Stability of Hybrids Based on Different Borate Glass Matrixâ€™s and Organic Metal Complexes. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012083.	0.3	4
44	The influence of synthesis conditions on the stability of tris(8-hydroxyquinoline) aluminum organometallic luminophore. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457 Td (Sp	0.1	
45	Numerical simulation and growth of Li2Zn2(MoO4)3 single crystals by the top seeded solution growth technique. Journal of Crystal Growth, 2017, 468, 939-944.	0.7	1
46	Growth of high optical quality zinc chalcogenides single crystals doped by Fe and Cr by the solid phase recrystallization technique at barothermal treatment. Journal of Crystal Growth, 2017, 468, 655-661.	0.7	19
47	Solid solution Li2MoO4 â€“ Li2WO4 crystal growth and characterization. Journal of Crystal Growth, 2017, 468, 365-368.	0.7	24
48	Deep Tellurium Purification for the Production of Electronic and Photonic Materials. Russian Microelectronics, 2017, 46, 551-556.	0.1	6
49	New Fluorescent Hybrid Materials Based on Eu-Complexes in Oxyfluoride Glass and Glass-Ceramic Matrix. Periodica Polytechnica: Chemical Engineering, 2016, 60, 152-156.	0.5	4
50	Selenium solubility in solid zinc selenide. Inorganic Materials, 2016, 52, 643-649.	0.2	0
51	Effective electroluminescent materials for OLED applications based on lanthanide 1.3-diketonates bearing pyrazole moiety. Journal of Luminescence, 2016, 177, 31-39.	1.5	65
52	Novel hybrid materials based on various oxyquinoline organic phosphour complexes and oxyfluoride glass. , 2016, , .		0
53	Synthesis condition influence on stability of metal-organic phosphor based on 8-hydroxyquinoline. , 2016, , .		0
54	Purity of MoO3 from different manufacturers. Inorganic Materials, 2016, 52, 285-293.	0.2	4

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55	Efficient red organic light-emitting diode based on simple Pt(II) OË†N- complex. Dyes and Pigments, 2016, 135, 80-85.	2.0	3
56	Non-stoichiometry of tris(8-hydroxyquinoline) aluminium: is it possible?. CrystEngComm, 2016, 18, 2182-2188.	1.3	13
57	Growth of Li2MoO4 Crystals from Activated Water Solutions. Glass and Ceramics (English) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.2	4
58	Nonstoichiometry problems of ZnSe: From single crystals to nanofilms. Thin Solid Films, 2016, 613, 11-18.	0.8	4
59	Deep tellurium purification for electronic and photonic materials. Izvestiya Vysshikh Uchebnykh Zavedenii Materialy Elektronnoi Tekhniki = Materials of Electronics Engineering, 2016, 19, 235-240.	0.1	2
60	Study of the Kroll-process to produce ultra-pure Ti for the low background experiments. AIP Conference Proceedings, 2015, , .	0.3	1
61	Combined method of axial low-frequency vibrations and axial heat flux for crystal growth from a melt. Doklady Physics, 2015, 60, 118-121.	0.2	2
62	Laser-induced luminescence in hybrid nanofilms. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.2	2
63	Axial vibration control of melt structure of sodium nitrate in crystal growth process. Journal of Crystal Growth, 2015, 417, 16-24.	0.7	6
64	Homogeneity limits and nonstoichiometry of vapor grown ZnTe and CdTe crystals. CrystEngComm, 2015, 17, 561-568.	1.3	11
65	Spectral properties of powder preparations of cadmium telluride and cadmium selenide with controlled nonstoichiometry. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.2	1
66	Luminescent hybrid materials based on an europium organic complex and borate glasses. Journal of Non-Crystalline Solids, 2015, 429, 213-218.	1.5	21
67	Nonstoichiometry of A^{II}B^{VI} semiconductors. Crystal Research and Technology, 2015, 50, 115-123.	0.6	10
68	Universal approach for nonstoichiometry determination in binary chemical compounds. Crystal Research and Technology, 2015, 50, 93-100.	0.6	15
69	Prospective Electroluminescent Hybrid Materials. European Journal of Inorganic Chemistry, 2015, 2015, 1269-1274.	1.0	5
70	New hybrid materials for organic light-emitting diode devices. Russian Microelectronics, 2014, 43, 526-530.	0.1	4
71	Properties of Li2MoO4 single crystals grown by Czochralski technique. Journal of Crystal Growth, 2014, 401, 853-856.	0.7	38
72	Polymorphism of tris(8-hydroxyquinoline) aluminum, gallium, and indium. Doklady Chemistry, 2014, 454, 6-8.	0.2	7

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73	Organic luminophor metal complex in inorganic glass matrixâ€"A new hybrid material. Journal of Crystal Growth, 2014, 401, 449-452.	0.7	11
74	Nonstoichiometry and luminescent properties of ZnSe crystals grown from melt and vapor. Journal of Crystal Growth, 2014, 401, 686-690.	0.7	19
75	Czochralski growth of NaNO3â€"LiNO3 solid solution single crystals using axial vibrational control technique. Journal of Crystal Growth, 2014, 401, 899-904.	0.7	1
76	Hybrid nanofilms with laser-control luminescence. , 2014, , .		0
77	Spectral properties of CdTe-CdSe powders with controlled nonstoichiometry. , 2014, , .		0
78	Modeling of axial vibrational control technique for CdTe VGF crystal growth under controlled cadmium partial pressure. Journal of Crystal Growth, 2014, 385, 88-94.	0.7	5
79	Hybrid materials based on organic luminophores in inorganic glass matrix. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 114, 886-889.	0.2	7
80	CdTe homogeneity region. Inorganic Materials, 2013, 49, 439-444.	0.2	6
81	Thermodynamic features of axial vibrational control technique for crystal growth from the melt. CrystEngComm, 2013, 15, 2213-2219.	1.3	11
82	Perfection of NaNO3 single crystals grown by axial vibrational control technique in Czochralski configuration. Journal of Crystal Growth, 2012, 360, 167-171.	0.7	12
83	Polymorphous transition wurtzite-sphalerite for nonstoichiometric cadmium and zinc chalcogenides. Doklady Chemistry, 2011, 440, 244-247.	0.2	3
84	Simulation and crystal growth of CdTe by axial vibration control technique in Bridgman configuration. Journal of Crystal Growth, 2011, 318, 528-532.	0.7	13
85	Single crystal growth by axial vibrational control technique in Czochralski configuration. Journal of Crystal Growth, 2011, 318, 979-982.	0.7	12
86	Experimental and numerical modeling of Czochralski crystal growth under axial vibrational control of the melt. Journal of Crystal Growth, 2010, 312, 1429-1433.	0.7	8
87	Czochralski crystal growth assisted by axial vibrational control technique. Journal of Crystal Growth, 2010, 312, 1104-1108.	0.7	10
88	Structure and electrical conductivity of selenium-ion-implanted CdSe films. Inorganic Materials, 2010, 46, 598-600.	0.2	0
89	A new method of heat and mass transfer control in the melt at crystal growth by Czochralski technique. Doklady Physics, 2009, 54, 410-412.	0.2	6
90	Growth of nonstoichiometric PbTe crystals by the vertical Bridgman method using the axial-vibration control technique. Crystallography Reports, 2005, 50, S124-S129.	0.1	8

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91	A Computer-Based Facility for Investigating the Melt Hydrodynamics during Bridgman Crystal Growth at Low-Frequency Vibrations in a Melt. Instruments and Experimental Techniques, 2004, 47, 554-561.	0.1	7
92	Synthesis of the Bi ₂ GeO ₅ Ferroelectric Crystalline Phase from a Nonstoichiometric Batch. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100666.	0.8	1