Andrei Belsky

List of Publications by Year
in descending order

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78 papers	2,463 citations	304743 22 h-index	206112 48 g-index
78 all docs	78 docs citations	78 times ranked	3351 citing authors

#	Article	IF	Citations
1	New developments in the Inorganic Crystal Structure Database (ICSD): accessibility in support of materials research and design. Acta Crystallographica Section B: Structural Science, 2002, 58, 364-369.	1.8	1,050
2	Scintillation Efficiency Improvement by Mixed Crystal Use. IEEE Transactions on Nuclear Science, 2014, 61, 262-270.	2.0	83
3	Luminescence and Scintillation Properties at the Nanoscale. IEEE Transactions on Nuclear Science, 2010, 57, 1348-1354.	2.0	76
4	Modelling energy deposition in nanoscintillators to predict the efficiency of the X-ray-induced photodynamic effect. Nanoscale, 2015, 7, 5744-5751.	5.6	72
5	Competition between exciton-phonon interaction and defects states in the 3.31 eV band in ZnO. Physical Review B, 2010, 81, .	3.2	64
6	Progress in the development of LuAlO/sub 3/-based scintillators. IEEE Transactions on Nuclear Science, 2001, 48, 1095-1100.	2.0	63
7	Trap centers in molybdates. Optical Materials, 2013, 35, 2465-2472.	3.6	60
8	Structureâ€“Property Correlations in a Ce-Doped (Lu,Gd)₂SiO₅:Ce Scintillator. Crystal Growth and Design, 2012, 12, 4411-4416.	3.0	59
9	Radioluminescence Sensitization in Scintillators and Phosphors: Trap Engineering and Modeling. Journal of Physical Chemistry C, 2014, 118, 9670-9676.	3.1	53
10	Exciton-exciton interactions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CdWO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> by intense femtosecond vacuum ultraviolet pulses. Physical Review B, 2009, 79, .	3.4	52
11	Radiation hardness of LuAG:Ce and LuAG:Pr scintillator crystals. Journal of Crystal Growth, 2012, 361, 212-216.	1.5	47
12	Low temperature luminescence and charge carrier trapping in a cryogenic scintillator Li2MoO4. Journal of Luminescence, 2015, 166, 195-202.	3.1	35
13	Kinetic Model of Energy Relaxation in CsI:A (A = Tl and In) Scintillators. Journal of Physical Chemistry C, 2015, 119, 20578-20590.	3.1	33
14	A molecular precursor approach to monodisperse scintillating CeF3 nanocrystals. Dalton Transactions, 2013, 42, 12633.	3.3	32
15	Lightâ€yield improvement trends in mixed scintillation crystals. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2384-2387.	1.8	31
16	Internal conical refraction of light beams in biaxial gyrotropic crystals. Optics Communications, 2002, 204, 1-6.	2.1	30
17	Estimation of the Electron Thermalization Length in Ionic Materials. Journal of Physical Chemistry Letters, 2013, 4, 3534-3538.	4.6	30
18	Energy transfer in solid solutions ZnxMg1â^'xWO4. Optical Materials, 2014, 36, 1660-1664.	3.6	28

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19	Luminescence of CsGd2F7:Er3+, Dy3+ under VUV excitation. Journal of Luminescence, 2001, 94-95, 45-49.	3.1	24
20	The features of energy transfer to the emission centers in ZnWO4 and ZnWO4:Mo. Journal of Luminescence, 2013, 144, 105-111.	3.1	24
21	Heating of conduction band electrons by intense femtosecond laser pulses. Europhysics Letters, 2004, 67, 301-306.	2.0	23
22	Light yield sensitization by X-ray irradiation of the BaAl4O7:Eu2+ceramic scintillator obtained by full crystallization of glass. Physical Chemistry Chemical Physics, 2014, 16, 24824-24829.	2.8	23
23	Ce-doped Li6Ln(BO3)3 (Ln=Y, Gd) Single crystals fibers grown by micro-pulling down method and luminescence properties. Optical Materials, 2013, 35, 868-874.	3.6	21
24	Bandgap engineering of the Lu Y1â^'PO4 mixed crystals. Journal of Luminescence, 2016, 171, 33-39.	3.1	21
25	Electron heating in the conduction band of insulators irradiated by ultrashort laser pulses. Physical Review B, 2006, 74, .	3.2	19
26	Deep traps can reduce memory effects of shallower ones in scintillators. Physical Chemistry Chemical Physics, 2016, 18, 1178-1184.	2.8	19
27	Scintillation properties of CsI:In single crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 761, 13-18.	1.6	17
28	Fast ultradense GdTa1-xNbxO4 scintillator crystals. Optical Materials, 2017, 66, 332-337.	3.6	17
29	Influence of Disorder in Scintillating Solid Solutions on Thermalization and Recombination of Electronic Excitations. Physica Status Solidi (B): Basic Research, 2020, 257, 1900535.	1.5	17
30	Nonlinear behavior of structural and luminescent properties in Gd(NbxTa1-x)O4 mixed crystals. Optical Materials, 2018, 76, 382-387.	3.6	16
31	Observation of high energy photoelectrons from solids at moderate laser intensity. Applied Physics B: Lasers and Optics, 2004, 78, 989-994.	2.2	15
32	Probing the excitonic emission of ZnO nanoparticles using UVâ€"VUV excitations. Journal of Luminescence, 2009, 129, 1798-1801.	3.1	14
33	Interaction of intense femtosecond laser pulses with KDP and DKDP crystals in the short wavelength regime. Journal of Physics Condensed Matter, 2013, 25, 435501.	1.8	14
34	Emission centers in ZnMoO4: Influence of growth conditions and decay characteristics. Optical Materials, 2016, 59, 66-69.	3.6	14
35	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
36	Reactive power compensation considering high harmonics generation from internal and external nonlinear load. IOP Conference Series: Earth and Environmental Science, 2017, 87, 032043.	0.3	13

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37	Luminescence properties of solid solutions LuxY1-xPO4:Eu3+. Optical Materials, 2018, 75, 607-611.	3.6	13
38	Growth of Ce-doped LGSO fiber-shaped crystals by the micro pulling down technique. Journal of Crystal Growth, 2015, 412, 95-102.	1.5	12
39	Potential of existing growth methods of LuAP and related scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 74-78.	1.6	11
40	New UV detectors for solar observations. , 2003, 4853, 419.		11
41	Electron heating through a set of random levels in the conduction band of insulators induced by femtosecond laser pulses. Applied Physics A: Materials Science and Processing, 2010, 98, 679-689.	2.3	11
42	Luminescence properties of CsI:Eu crystals. Optical Materials, 2012, 34, 2017-2020.	3.6	11
43	Channels of Energy Losses and Relaxation in CsI:A Scintillators (${m A}={m Tl}$, In). IEEE Transactions on Nuclear Science, 2014, 61, 246-251.	2.0	11
44	Composition effect in luminescence properties of Y(NbxTa1-x)O4 mixed crystals. Optical Materials, 2018, 80, 247-252.	3.6	11
45	Excitonic and activator recombination channels in binary halide scintillation crystals. Physica Status Solidi (B): Basic Research, 2014, 251, 942-949.	1.5	10
46	Luminescent properties of Pb2MoO5 single crystals. Optical Materials, 2015, 42, 430-434.	3.6	10
47	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
48	Quenching of excitonic luminescence of alkaline earth fluorides excited by VUV harmonics of femtosecond laser. Journal of Luminescence, 2009, 129, 1813-1816.	3.1	9
49	Time-resolved studies of scintillation materials with VUV harmonic ultrashort pulses laser source. IEEE Transactions on Nuclear Science, 2001, 48, 1137-1142.	2.0	8
50	Cerium-, praseodymium- and terbium-trapped excitons in oxides. Chemical Physics Letters, 2011, 515, 258-262.	2.6	8
51	Radioluminescence of color centers in LiF crystals. Radiation Measurements, 2013, 56, 23-26.	1.4	8
52	Decay Kinetics of CeF3 under VUV and X-ray Synchrotron Radiation. Symmetry, 2020, 12, 914.	2.2	8
53	Mixed vanadates: Optimization of optical properties by varying chemical composition. Journal of Luminescence, 2017, 189, 140-147.	3.1	7
54	Time-Resolved VUV Excited Luminescence of $hbox {Y}_{2}hbox {O}_{3}hbox {-} hbox {Yb}$ Nanoparticles. IEEE Transactions on Nuclear Science, 2010, 57, 1355-1360.	2.0	6

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55	Crossluminescence of Nanosized KYF$_{4}$. IEEE Transactions on Nuclear Science, 2012, 59, 2102-2105.	2.0	6
56	Luminescent and structural properties of ZnxMg1-xWO4 mixed crystals. Radiation Measurements, 2016, 90, 43-46.	1.4	6
57	Time-resolved luminescence Z-scan of CsI using power femtosecond laser pulses. Radiation Measurements, 2019, 124, 1-8.	1.4	6
58	Interaction d'impulsions VUV intenses avec les solides luminescents. European Physical Journal Special Topics, 2006, 138, 155-161.	0.2	5
59	Time resolved luminescence of solids excited by femtosecond VUV pulses and synchrotron radiation. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 870-876.	0.8	5
60	Europium emission centers in CsI:Eu crystal. Optical Materials, 2013, 35, 2613-2617.	3.6	5
61	Photoconductivity and photoemission studies of diamond irradiated by ultrashort VUV pulses. Applied Physics B: Lasers and Optics, 2004, 78, 1001-1004.	2.2	4
62	Applications of intense ultra-short XUV pulses to solid state physics: time-resolved luminescence spectroscopy and radiation damage studies. , 2007, , .		4
63	Effect of the activator impurity on the scintillation yield in alkali-halide crystals. Physica Status Solidi (B): Basic Research, 2015, 252, 380-385.	1.5	4
64	PhotoÃ©mission de CsI induite par une impulsion laser intense femtoseconde. European Physical Journal Special Topics, 2003, 108, 113-117.	0.2	4
65	Utilisation des matÃ©riaux luminescents pour la mÃ©trologie des faisceaux intenses UVX d'impulsions ultracourtes. European Physical Journal Special Topics, 2006, 138, 251-257.	0.2	4
66	Intrinsic and impurity luminescence of rare earth ions doped KYF4 nanophosphors. Radiation Measurements, 2013, 56, 393-396.	1.4	3
67	The nature of luminescence centers in NaI:Eu single crystals. Journal of Luminescence, 2015, 164, 64-68.	3.1	2
68	Spectroscopie VUV sub-picoseconde : un dÃ©tecteur haute cadence et un monochromateur pour impulsions femtosecondes. European Physical Journal Special Topics, 2003, 108, 123-126.	0.2	2
69	Tunable light sources based on high harmonics generation for time-resolved VUV spectroscopy. Applied Physics B: Lasers and Optics, 2004, 78, 1005-1008.	2.2	1
70	Plasmon channels in the electronic relaxation of diamond under high-order harmonics femtosecond irradiation. Laser Physics Letters, 2005, 2, 292-296.	1.4	1
71	Interaction of short and intense light pulses with matter: visible versus VUV. , 2007, , .		1
72	Soft X-ray excitation of luminescence in wide bandgap crystals doped with rare-earth ions. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1092-1095.	0.8	1

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73	Emission centers in Ca1â€“x Pr x F2+x (x = 0.35) solid solutions. Journal of Applied Spectroscopy, 2012, 79, 589-594.	0.7	1
74	Energy Relaxation in LSO and LGSO Crystals Studied in the VUV Range. IEEE Transactions on Nuclear Science, 2014, 61, 290-292.	2.0	1
75	Properties and applications of XUV harmonics source at C.E.L.I.A. European Physical Journal Special Topics, 2001, 11, Pr2-503-Pr2-506.	0.2	0
76	Luminescence of insulating crystals induced by an XUV laser. European Physical Journal Special Topics, 2001, 11, Pr2-495-Pr2-498.	0.2	0
77	Imageur diamant et nitrures pour l'observation UV du soleil. European Physical Journal Special Topics, 2003, 108, 227-231.	0.2	0
78	PhotoconductivitÃ© et photoÃ©mission de diamant(s) sous irradiation XUV femtoseconde. European Physical Journal Special Topics, 2005, 127, 131-138.	0.2	0