Christophe Dujardin

List of Publications by Year
in descending order

240 papers	6,863 citations	61857 43 h-index	91712 69 g-index
244 all docs	244 docs citations	244 times ranked	5699 citing authors

#	Article	IF	Citations
1	Needs, Trends, and Advances in Inorganic Scintillators. IEEE Transactions on Nuclear Science, 2018, 65, 1977-1997.	1.2	305
2	Synthesis and luminescent properties of sub-5-nm lanthanide oxides nanoparticles. Journal of Luminescence, 2003, 102-103, 445-450.	1.5	194
3	Synthesis and properties of europium-based phosphors on the nanometer scale: Eu2O3, Gd2O3:Eu, and Y2O3:Eu. Journal of Colloid and Interface Science, 2004, 273, 191-197.	5.0	182
4	Inorganic, Organic, and Perovskite Halides with Nanotechnology for Highâ€“Light Yield X- and Î³-ray Scintillators. Crystals, 2019, 9, 88.	1.0	150
5	Dynamical study of bubble expansion following laser ablation in liquids. Applied Physics Letters, 2016, 108, .	1.5	137
6	The ClearPETâ„¢ project: development of a 2nd generation high-performance small animal PET scanner. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 537, 307-311.	0.7	121
7	X-ray-Induced Singlet Oxygen Activation with Nanoscintillator-Coupled Porphyrins. Journal of Physical Chemistry C, 2013, 117, 21583-21589.	1.5	117
8	Î³-Al₂O₃nanoparticles synthesised by pulsed laser ablation in liquids: a plasma analysis. Physical Chemistry Chemical Physics, 2014, 16, 963-973.	1.3	117
9	Measurements of the intrinsic rise times of common inorganic scintillators. IEEE Transactions on Nuclear Science, 2000, 47, 860-864.	1.2	107
10	LuAG:Ce fibers for high energy calorimetry. Journal of Applied Physics, 2010, 108, .	1.1	103
11	Nanodiamond synthesis by pulsed laser ablation in liquids. Diamond and Related Materials, 2009, 18, 177-180.	1.8	101
12	Optical properties of europium-doped Gd2O3 waveguiding thin films prepared by the solâ€“gel method. Optical Materials, 2002, 19, 161-168.	1.7	94
13	Composite fast scintillators based on high-Z fluorescent metalâ€“organic framework nanocrystals. Nature Photonics, 2021, 15, 393-400.	15.6	93
14	X-ray excited charge transfer luminescence of ytterbium-containing aluminium garnets. Chemical Physics Letters, 2001, 339, 197-202.	1.2	91
15	Luminescence properties and scintillation mechanisms of cerium- and praseodymium-doped lutetium orthoaluminate. Journal of Physics Condensed Matter, 1997, 9, 5229-5243.	0.7	90
16	Synthesis and characterization of Gd2O3:Eu3+ phosphor nanoparticles by a sol-lyophilization technique. Journal of Solid State Chemistry, 2003, 173, 335-341.	1.4	89
17	Lithium-doped two-dimensional perovskite scintillator for wide-range radiation detection. Communications Materials, 2020, 1, .	2.9	88
18	Elaboration and scintillation properties of Eu3+-doped Gd2O3 and Lu2O3 solâ€“gel films. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 181-185.	0.7	83

#	Article	IF	Citations
19	Library of Two-Dimensional Hybrid Lead Halide Perovskite Scintillator Crystals. Chemistry of Materials, 2020, 32, 8530-8539.	3.2	80
20	Luminescence and Scintillation Properties at the Nanoscale. IEEE Transactions on Nuclear Science, 2010, 57, 1348-1354.	1.2	76
21	Elaboration and characterization of Gd2O3 waveguiding thin films prepared by the solâ€“gel process. Optical Materials, 2001, 16, 39-46.	1.7	75
22	Synthesis of Oxide Nanoparticles by Pulsed Laser Ablation in Liquids Containing a Complexing Molecule: Impact on Size Distributions and Prepared Phases. Journal of Physical Chemistry C, 2011, 115, 5131-5139.	1.5	75
23	Modelling energy deposition in nanoscintillators to predict the efficiency of the X-ray-induced photodynamic effect. Nanoscale, 2015, 7, 5744-5751.	2.8	72
24	Optical and scintillation properties of large crystals. Journal of Physics Condensed Matter, 1998, 10, 3061-3073.	0.7	69
25	Observation of the gap blueshift on Gd2O3:Eu3+ nanoparticles. Journal of Applied Physics, 2004, 96, 650-653.	1.1	69
26	Facile and rapid synthesis of highly luminescent nanoparticles via pulsed laser ablation in liquid. Nanotechnology, 2009, 20, 445605.	1.3	68
27	Bridgman growth and site occupation in LuAG:Ce scintillator crystals. Journal of Crystal Growth, 2010, 312, 3136-3142.	0.7	67
28	Extensive studies on CeF3 crystals, a good candidate for electromagnetic calorimetry at future accelerators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 383, 367-390.	0.7	66
29	Competition between exciton-phonon interaction and defects states in the 3.31 eV band in ZnO. Physical Review B, 2010, 81, .	1.1	64
30	Progress in the development of LuAlO/sub 3/-based scintillators. IEEE Transactions on Nuclear Science, 2001, 48, 1095-1100.	1.2	63
31	Origin of the nano-carbon allotropes in pulsed laser ablation in liquids synthesis. Journal of Colloid and Interface Science, 2017, 489, 114-125.	5.0	62
32	Charge transfer fluorescence and fâ€“f luminescence in ytterbium compounds. Optical Materials, 2003, 24, 267-274.	1.7	61
33	Perfectly Transparent Sr₃Al₂O₆ Polycrystalline Ceramic Elaborated from Glass Crystallization. Chemistry of Materials, 2013, 25, 4017-4024.	3.2	60
34	Structureâ€“Property Correlations in a Ce-Doped (Lu,Gd)₂SiO₅:Ce Scintillator. Crystal Growth and Design, 2012, 12, 4411-4416.	1.4	59
35	New nanoplatform based on Gd2O2S:Eu3+ core: synthesis, characterization and use for in vitro bio-labelling. Journal of Materials Chemistry, 2011, 21, 18365.	6.7	56
36	Radioluminescence Sensitization in Scintillators and Phosphors: Trap Engineering and Modeling. Journal of Physical Chemistry C, 2014, 118, 9670-9676.	1.5	53

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37	On the use of CdSe scintillating nanoplatelets as time taggers for high-energy gamma detection. Npj 2D Materials and Applications, 2019, 3, .	3.9	53
38	Further results on cerium fluoride crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 332, 373-394.	0.7	48
39	One- and two-photon spectroscopy of f â†' d and f â†' f transitions of Eu2+ ions in M1-xNxF2 mixed fluoride crystals (M, N = Ba, Sr, Ca; 0 â©½ x â©½ 1). Journal of Luminescence, 1993, 54, 259-270.	1.5	47
40	Concentration effect on the scintillation properties of solâ€"gel derived LuBO3 doped with Eu3+ and Tb3+. Optical Materials, 2007, 29, 697-702.	1.7	47
41	Radiation hardness of LuAG:Ce and LuAG:Pr scintillator crystals. Journal of Crystal Growth, 2012, 361, 212-216.	0.7	47
42	Structural and luminescent properties of new Ce3+ doped calcium borophosphate with apatite structure. Solid State Sciences, 2002, 4, 53-59.	1.5	46
43	HfO₂:X (X = Eu³⁺, Ce³⁺, Y³⁺) Sol Gel Powders for Ultradense Scintillating Materials. Journal of Physical Chemistry A, 2008, 112, 10152-10155.	1.1	46
44	Effect of commensurate lithium doping on the scintillation of two-dimensional perovskite crystals. Journal of Materials Chemistry C, 2021, 9, 2504-2512.	2.7	46
45	Ce-doped LuAG single-crystal fibers grown from the melt for high-energy physics. Acta Materialia, 2014, 67, 232-238.	3.8	44
46	A luminescent double helical gold(<scp>i</scp>)â€"thiophenolate coordination polymer obtained by hydrothermal synthesis or by thermal solid-state amorphous-to-crystalline isomerization. Journal of Materials Chemistry C, 2015, 3, 4115-4125.	2.7	44
47	Atomistic Mechanisms for the Nucleation of Aluminum Oxide Nanoparticles. Journal of Physical Chemistry A, 2015, 119, 8944-8949.	1.1	43
48	Spectroscopic properties of CeF3 and LuF3:Ce3+ thin films grown by molecular beam epitaxy. Optical Materials, 2001, 16, 69-76.	1.7	41
49	Structural and scintillation properties of new Ce3+-doped alumino-borate. Optical Materials, 2001, 16, 77-86.	1.7	40
50	X-ray-excited charge transfer luminescence in YAG:Yb and YbAG. Journal of Luminescence, 2001, 94-95, 11-14.	1.5	40
51	Quantum confinement effect on Gd2O3 clusters. Journal of Chemical Physics, 2007, 126, 044507.	1.2	40
52	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.	0.7	39
53	Impurities detection by optical techniques in KH2PO4 crystals. Optics Communications, 2007, 275, 372-378.	1.0	39
54	Critical dimension where the macroscopic definition of refractive index can be applied at a nanometric scale. Physical Review B, 2008, 78, .	1.1	39

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55	Shaped crystal growth of Ce3+-doped Lu2(1â^'x)Y2xSiO5 oxyorthosilicate for scintillator applications by pulling-down technique. Journal of Crystal Growth, 2006, 289, 172-177.	0.7	38
56	Highly luminescent scintillating hetero-ligand MOF nanocrystals with engineered Stokes shift for photonic applications. Nature Communications, 2022, 13, .	5.8	38
57	Fast fluorescence and scintillation properties of cerium and praseodymium doped lutetium orthoborates. Radiation Effects and Defects in Solids, 1999, 150, 47-52.	0.4	37
58	Fluorescent oxide nanoparticles adapted to active tips for near-field optics. Nanotechnology, 2009, 20, 015603.	1.3	37
59	Investigation of local thermodynamic equilibrium in laser-induced plasmas: Measurements of rotational and excitation temperatures at long time scales. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 101, 86-92.	1.5	37
60	CdSe/ZnS quantum dots as sensors for the local refractive index. Nanoscale, 2016, 8, 2317-2325.	2.8	37
61	Rare-Earth Actived Sol-Gel Films for Scintillator Applications. Journal of Sol-Gel Science and Technology, 2003, 26, 957-960.	1.1	36
62	Radiation Doseâ€Enhancement Is a Potent Radiotherapeutic Effect of Rareâ€Earth Composite Nanoscintillators in Preclinical Models of Glioblastoma. Advanced Science, 2020, 7, 2001675.	5.6	36
63	Transparent and luminescent glasses of gold thiolate coordination polymers. Chemical Science, 2020, 11, 6815-6823.	3.7	36
64	Fluorescence of Ce3+ in LiREF4 (RE î—» Gd, Yb). Optical Materials, 1995, 4, 575-582.	1.7	35
65	Growth and optical properties of Yb doped new scintillator crystals. Optical Materials, 2003, 24, 275-279.	1.7	35
66	Luminescence enhancement by energy transfer in core-shell structures. Chemical Physics Letters, 2006, 429, 157-160.	1.2	35
67	Single crystalline LuAG fibers for homogeneous dual-readout calorimeters. Journal of Instrumentation, 2013, 8, P09019-P09019.	0.5	34
68	Luminescence properties of CsPrP4O12 and RbPrP4O12. Journal of Luminescence, 2001, 94-95, 69-72.	1.5	33
69	{Y3â^'x,Ybx}[Ga]2(Ga)3O12 and {Lu2Yb1}[Al]2(Al)3O12 single crystals for scintillator application grown by the modified micro-pulling-down method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 79-82.	0.7	33
70	Ytterbium-based scintillators, a new class of inorganic scintillators for solar neutrino spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 228-233.	0.7	33
71	Kinetic Model of Energy Relaxation in CsI:A (A = Tl and In) Scintillators. Journal of Physical Chemistry C, 2015, 119, 20578-20590.	1.5	33
72	A molecular precursor approach to monodisperse scintillating CeF3 nanocrystals. Dalton Transactions, 2013, 42, 12633.	1.6	32

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73	Bridgman single crystal growth of Ce-doped (Lu1â^'xYx)AlO3. Journal of Crystal Growth, 1999, 198-199, 492-496.	0.7	31
74	Gadolinium and Yttrium Borates: Thermal Behavior and Structural Considerations. Journal of Solid State Chemistry, 2000, 154, 204-213.	1.4	31
75	Influence of Sr/Hf ratio and annealing treatment on structural and scintillating properties of solâ€“gel Ce3+-doped strontium hafnate powders. Optical Materials, 2005, 27, 1541-1546.	1.7	31
76	Epitaxial growth of gadolinium and lutetium-based aluminum perovskite thin films for X-ray micro-imaging applications. CrystEngComm, 2016, 18, 608-615.	1.3	31
77	Elaboration, structural and spectroscopic properties of rare earth-doped yttriumâ€“hafnium solâ€“gel oxide powders for scintillation applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 105, 12-15.	1.7	30
78	Structural transition in rare earth oxide clusters. Journal of Chemical Physics, 2006, 125, 171104.	1.2	30
79	Estimation of the Electron Thermalization Length in Ionic Materials. Journal of Physical Chemistry Letters, 2013, 4, 3534-3538.	2.1	30
80	An intrinsic dual-emitting gold thiolate coordination polymer, [Au(+I)(p-SPhCO₂H)]_n, for ratiometric temperature sensing. Journal of Materials Chemistry C, 2017, 5, 9843-9848.	2.7	30
81	A new solvothermal method for the synthesis of size-controlled YAG:Ce single-nanocrystals. RSC Advances, 2018, 8, 26857-26870.	1.7	30
82	Synthesis and optical characterization of Gd2O3:Eu3+ nanocrystals: surface states and VUV excitation. Radiation Measurements, 2004, 38, 763-766.	0.7	29
83	Advances in the scintillation performance of LuYAP:Ce single crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 537, 295-301.	0.7	28
84	Autocorrelation Analysis for the Unbiased Determination of Power-Law Exponents in Single-Quantum-Dot Blinking. ACS Nano, 2015, 9, 886-893.	7.3	28
85	Spectroscopic and Scintillation Properties of Cerium-Doped LuF₃ Single Crystal. Materials Science Forum, 1997, 239-241, 245-248.	0.3	27
86	Dissimilar behavior of YAG:Ce and LuAG:Ce scintillator garnets regarding Li⁺ co-doping. CrystEngComm, 2018, 20, 1520-1526.	1.3	27
87	Structural and scintillation properties of spray coated lutetium borate films doped with Ce3+ and Eu3+. Nuclear Instruments & Methods in Physics Research B, 2005, 229, 232-239.	0.6	26
88	Fast fluorescence and scintillation of Pr-doped yttrium aluminum perovskite. Optical Materials, 1994, 3, 81-88.	1.7	25
89	Temperature dependence of the charge transfer and fâ€“f luminescence of Yb3+ in garnets and YAP. Journal of Physics Condensed Matter, 2005, 17, 5587-5594.	0.7	25
90	Mechanisms for Ce3+ excitation at energies below the zero-phonon line in YAG crystals and nanocrystals. Journal of Luminescence, 2012, 132, 3082-3088.	1.5	25

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91	Deterministic Light Yield, Fast Scintillation, and Microcolumn Structures in Lead Halide Perovskite Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 14082-14088.	1.5	25
92	X-ray and optical studies of ytterbium-doped gallium garnets. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 537, 134-138.	0.7	24
93	A study of radiation effects on LuAG:Ce(Pr) co-activated with Ca. Journal of Crystal Growth, 2015, 430, 46-51.	0.7	24
94	Optical properties of praseodymium concentrated phosphates. Optical Materials, 2006, 28, 14-20.	1.7	23
95	Rare Earth Fluoride Nanoparticles Obtained Using Charge Transfer Complexes: A Versatile and Efficient Route toward Colloidal Suspensions and Monolithic Transparent Xerogels. Langmuir, 2011, 27, 5555-5561.	1.6	23
96	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.	1.3	23
97	Fluorescence Properties of CeF3 and of Some Other Cerium Doped Crystals and Glasses Under VUV and X-RAY Synchrotron Excitation. Materials Research Society Symposia Proceedings, 1994, 348, 225.	0.1	22
98	Pressure effect on luminescence dynamics in Pr3+-doped LiNbO3and LiTaO3crystals. Journal of Physics Condensed Matter, 2006, 18, 117-125.	0.7	22
99	Evaluation of Fiber-Shaped LYSO for Double Readout Gamma Photon Detection. IEEE Transactions on Nuclear Science, 2007, 54, 391-397.	1.2	22
100	Test beam results with LuAG fibers for next-generation calorimeters. Journal of Instrumentation, 2013, 8, P10017-P10017.	0.5	22
101	Doping nanoparticles using pulsed laser ablation in a liquid containing the doping agent. Nanoscale Advances, 2019, 1, 3963-3972.	2.2	22
102	Growth and light yield performance of dense Ce3+-doped (Lu,Y)AlO3 solid solution crystals. Journal of Crystal Growth, 2000, 211, 252-256.	0.7	21
103	Scintillation properties of CsPrP4O12 and RbPrP4O12. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 283-287.	0.7	21
104	The Influence of Oxygen Vacancies on Luminescence Properties of Na₃LuSi₃O₉:Ce³⁺. Journal of Physical Chemistry C, 2016, 120, 18741-18747.	1.5	21
105	Single crystal lutetium oxide thin film scintillators for X-ray imaging. Journal of Instrumentation, 2016, 11, C10010-C10010.	0.5	21
106	A strategy to increase phosphor brightness: Application with Ce3+-doped Gd3Sc2Al3O12. Journal of Luminescence, 2017, 190, 62-68.	1.5	21
107	Advancement toward ultra-thick and bright InGaN/GaN structures with a high number of QWs. CrystEngComm, 2019, 21, 356-362.	1.3	21
108	Synthesis routes of CeO₂ nanoparticles dedicated to organophosphorus degradation: a benchmark. CrystEngComm, 2020, 22, 1725-1737.	1.3	20

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109	Scintillation properties of mixed LuYAP crystals in view of their use in a small animal PET scanner in phoswich configuration. IEEE Transactions on Nuclear Science, 2003, 50, 1477-1482.	1.2	19
110	Thin scintillating films of sesquioxides doped with Eu3+. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 537, 237-241.	0.7	19
111	Local refractive index probed via the fluorescence decay of semiconductor quantum dots. Optics Express, 2012, 20, 3200.	1.7	19
112	Role of Optical Fiber Drawing in Radioluminescence Hysteresis of Yb-Doped Silica. Journal of Physical Chemistry C, 2015, 119, 15572-15578.	1.5	19
113	Deep traps can reduce memory effects of shallower ones in scintillators. Physical Chemistry Chemical Physics, 2016, 18, 1178-1184.	1.3	19
114	Consequences of Ca Codoping in YAlO₃:Ce Single Crystals. ChemPhysChem, 2017, 18, 493-499.	1.0	19
115	Rare earth based clusters for nanoscale light source. European Physical Journal D, 2005, 34, 139-143.	0.6	18
116	Scintillating and optical spectroscopy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si32.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Al</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></m mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mo>:</mml:mo> for dark matter searches. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 606, 545-551.	0.7	18
117	display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>O<mml:math	1.1	18
118	Spectroscopic studies of the fâ†"d ultraviolet transitions of Pr3+ in alkaline earth fluorides. Chemical Physics Letters, 1994, 220, 433-436.	1.2	17
119	Elaboration and spectroscopic properties of new dense cerium-doped lutetium based scintillator materials. Chemical Physics Letters, 1997, 268, 408-412.	1.2	17
120	Scintillation of Sol?Gel Derived Lutetium Orthoborate Doped with Ce3+ Ions. Journal of Sol-Gel Science and Technology, 2004, 32, 253-258.	1.1	17
121	Grafting of colloidal stable gold nanoparticles with lissamine rhodamine B: an original procedure for counting the number of dye molecules attached to the particles. Journal of Materials Chemistry, 2004, 14, 402-407.	6.7	17
122	Synthesis and optical properties of Yb0.6Y1.4O3 transparent ceramics. Journal of Alloys and Compounds, 2008, 464, 407-411.	2.8	17
123	Characterization and scintillation properties of solâ€"gel derived Lu2SiO5:Ln3+ (Ln=Ce, Eu and Tb) powders. Optical Materials, 2009, 31, 1334-1336.	1.7	17
124	Experimental evidence of temperature gradients in cavitating microflows seeded with thermosensitive nanoprobes. Physical Review E, 2013, 88, 043016.	0.8	17
125	Growth of long undoped and Ce-doped LuAG single crystal fibers for dual readout calorimetry. Journal of Crystal Growth, 2016, 435, 31-36.	0.7	17
126	Confinement effects in sesquioxydes. Journal of Luminescence, 2006, 119-120, 224-227.	1.5	16

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127	Diamond contact-less micrometric temperature sensors. Applied Physics Letters, 2015, 106, .	1.5	15
128	Enhanced Transparency through Second Phase Crystallization in BaAl₄O₇ Scintillating Ceramics. Crystal Growth and Design, 2016, 16, 386-395.	1.4	15
129	Growth and characterization of Ce-doped YAG and LuAG fibers. Optical Materials, 2017, 65, 66-68.	1.7	15
130	Fluorescence properties of Eu2+ ions in mixed fluoride crystals M1â^'xNxF2 (M,N = Ca,Sr,Ba). Journal of Luminescence, 1992, 53, 444-446.	1.5	14
131	Further results on GdAlO₃:Ce scintillator. Radiation Effects and Defects in Solids, 1995, 135, 369-373.	0.4	14
132	Scintillation of Sol-Gel Derived Lutetium Orthophosphate Doped with Rare Earth Ions. Journal of Sol-Gel Science and Technology, 2006, 38, 97-105.	1.1	14
133	BGO fibers growth by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>Î¼</mml:mi></mml:math>-pulling down technique and study of light propagation. Physics Procedia, 2009, 2, 819-825.	1.2	14
134	Probing the excitonic emission of ZnO nanoparticles using UVâ€“VUV excitations. Journal of Luminescence, 2009, 129, 1798-1801.	1.5	14
135	Test beam results of a high granularity LuAG fibre calorimeter prototype. Journal of Instrumentation, 2016, 11, P05004-P05004.	0.5	14
136	Modeling Energy Migration for Upconversion Materials. Journal of Physical Chemistry C, 2018, 122, 888-893.	1.5	14
137	Impact of Carbon Co-Doping on the Optical and Scintillation Properties of a YAG:Ce Scintillator. Crystal Growth and Design, 2021, 21, 3063-3070.	1.4	14
138	Rare-earth-based nanoclusters embedded in solâ€“gel waveguiding thin films. Journal of Luminescence, 2006, 119-120, 560-564.	1.5	13
139	Low temperature photoluminescence of pure and doped paratellurite (TeO2) crystals. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1567-1570.	0.8	13
140	YAG:Ce nanoparticle lightsources. Nanotechnology, 2013, 24, 165703.	1.3	13
141	Anomalous discrete disorder response of high-symmetry impurity centers spectra in garnet solid solutions. Physical Chemistry Chemical Physics, 2014, 16, 22583-22587.	1.3	13
142	From Nanoparticle Assembly to Monolithic Aerogels of YAG, Rare Earth Fluorides, and Composites. Chemistry of Materials, 2018, 30, 5460-5467.	3.2	13
143	The Bright Xâ€Ray Stimulated Luminescence of HfO₂ Nanocrystals Activated by Ti Ions. Advanced Optical Materials, 2020, 8, 1901348.	3.6	13
144	Modified floating-zone crystal growth of Mg₄Ta₂O₉ and its scintillation performance. CrystEngComm, 2020, 22, 3497-3504.	1.3	13

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145	Effect of the quantum confinement on the luminescent properties of sesquioxydes. Journal of Luminescence, 2007, 122-123, 756-758.	1.5	12
146	The SciCryo Project and Cryogenic Scintillation ofÂAl2O3Âfor Dark Matter. Journal of Low Temperature Physics, 2008, 151, 902-907.	0.6	12
147	Fiber single crystal growth by LHPG technique and optical characterization of Ce3+-doped Lu2SiO5. Optical Materials, 2008, 30, 1461-1467.	1.7	12
148	Growth of Ce-doped LGSO fiber-shaped crystals by the micro pulling down technique. Journal of Crystal Growth, 2015, 412, 95-102.	0.7	12
149	Design and Application of High Optical Quality YAG:Ce Nanocrystal-Loaded Silica Aerogels. ACS Applied Materials & Interfaces, 2018, 10, 32304-32312.	4.0	12
150	Drastic Scintillation Yield Enhancement of YAG:Ce with Carbon Doping. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800122.	0.8	12
151	Multicolor Solar Absorption as a Synergetic UV Upconversion Enhancement Mechanism in LiYF₄:Yb³⁺,Tm³⁺ Nanocrystals. ACS Photonics, 2019, 6, 3126-3131.	3.2	12
152	Stable and Bright Commercial CsPbBr₃ Quantum Dot-Resin Layers for Apparent X-ray Imaging Screen. ACS Applied Materials & Interfaces, 2021, 13, 59450-59459.	4.0	12
153	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.	0.7	11
154	Growth and properties of LuAP co-doped with divalent or tetravalent impurities. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 537, 200-202.	0.7	11
155	Gaseous environment-sensitive fluorescence of YAG:Ce3+ nanocrystals. Journal of Applied Physics, 2010, 107, 064308.	1.1	11
156	Development of an x-ray imaging system for the Laser Megajoule (LMJ). Review of Scientific Instruments, 2010, 81, 10E509.	0.6	11
157	Low-absorption, multi-layered scintillating material for high resolution real-time X-ray beam analysis. Journal of Materials Chemistry C, 2015, 3, 4954-4959.	2.7	11
158	Perspectives for CdSe/CdS spherical quantum wells as rapid-response nano-scintillators. Nanoscale, 2021, 13, 19578-19586.	2.8	11
159	Site occupation and solubility limit of Sc in Lu3Al5O12. Journal of Crystal Growth, 2012, 338, 143-146.	0.7	10
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