

# Martin Nikl

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

941  
papers

20,669  
citations

60  
h-index

101  
g-index

1,005  
ext. papers

22,983  
ext. citations

2.5  
avg, IF

6.82  
L-index

#	Paper	IF	Citations
941	Effect of Li <sup>+</sup> co-doping on the luminescence and defects creation processes in Gd <sub>3</sub> (Ga,Al)5O <sub>12</sub> :Ce scintillation crystals. <i>Journal of Luminescence</i> , <b>2022</b> , 242, 118548	3.8	1
940	Lead-Free Zero-Dimensional Organic-Copper(I) Halides as Stable and Sensitive X-ray Scintillators.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	7
939	Effect of dopant concentration on the optical characteristics of Cr <sup>3+</sup> :ZnGa <sub>2</sub> O <sub>4</sub> transparent ceramics exhibiting persistent luminescence. <i>Optical Materials</i> , <b>2022</b> , 125, 112127	3.3	0
938	Characterization of mixed Bi <sub>4</sub> (Ge <sub>x</sub> Si <sub>1-x</sub> ) <sub>3</sub> O <sub>12</sub> for crystal calorimetry at future colliders. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2022</b> , 1032, 166527	1.2	0
937	Tunable resonantly pumped Er:GGAG laser. <i>Laser Physics</i> , <b>2022</b> , 32, 015802	1.2	1
936	Preparation and performance of plastic scintillators with copper iodide complex-loaded for radiation detection. <i>Polymer</i> , <b>2022</b> , 249, 124832	3.9	1
935	Morphology of Meteorite Surfaces Ablated by High-Power Lasers: Review and Applications. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 4869	2.6	
934	Incorporation of the Ce <sup>3+</sup> activator ions in LaAlO <sub>3</sub> crystals: EPR and NMR study. <i>Journal of Solid State Chemistry</i> , <b>2022</b> , 313, 123295	3.3	0
933	Composition-Engineered GSAG Garnet: Single-Crystal Host for Fast Scintillators. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 7139-7149	3.5	0
932	Luminescence and scintillation properties of Mo co-doped Y <sub>0.8</sub> Gd <sub>2.2</sub> (Al <sub>5-x</sub> Ga <sub>x</sub> )O <sub>12</sub> : Ce multicomponent garnet crystals. <i>Optical Materials</i> , <b>2021</b> , 122, 111783	3.3	0
931	Ultraviolet cross-luminescence in ternary chlorides of alkali and alkaline-earth metals. <i>Optical Materials: X</i> , <b>2021</b> , 12, 100103	1.7	1
930	Effect of W and Mo co-doping on the photo- and thermally stimulated luminescence and defects creation processes in Gd <sub>3</sub> (Ga,Al)5O <sub>12</sub> :Ce crystals. <i>Optical Materials</i> , <b>2021</b> , 114, 110923	3.3	3
929	Ultrabright and Highly Efficient All-Inorganic Zero-Dimensional Perovskite Scintillators. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100460	8.1	29
928	Scintillators <b>2021</b> , 73-141		
927	Development of Composite Scintillators Based on the LuAG: Pr Single Crystalline Films and LuAG:Sc Single Crystals. <i>Crystals</i> , <b>2021</b> , 11, 846	2.3	0
926	Optical and scintillation properties of LuGd <sub>2</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce, Lu <sub>2</sub> GdAl <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce, and Lu <sub>2</sub> YAl <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce single crystals: A comparative study. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2021</b> , 1004, 165381	1.2	1
925	New types of composite scintillators based on the single crystalline films and crystals of Gd <sub>3</sub> (Al,Ga)5O <sub>12</sub> :Ce mixed garnets. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2021</b> , 264, 114909	3.1	1

924	Dense ceramics of lanthanide-doped Lu <sub>2</sub> O <sub>3</sub> prepared by spark plasma sintering. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 741-751	6	5
923	Undoped and Eu, Na co-doped LiCaAlF <sub>6</sub> scintillation crystals: Paramagnetic centers, charge trapping and energy transfer properties. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 858, 158297	5.7	0
922	Fine-grained Ce,Y:SrHfO <sub>3</sub> Scintillation Ceramics Fabricated by Hot Isostatic Pressing. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , <b>2021</b> , 36, 1118	1	0
921	Non-Hygroscopic, Self-Absorption Free, and Efficient 1D CsCuI Perovskite Single Crystal for Radiation Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 12198-12202	9.5	16
920	On the Role of CsPbBr Phase in the Luminescence Performance of Bright CsPbBr Nanocrystals. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
919	Ternary sulfides A <sub>2</sub> LnS <sub>2</sub> :Eu <sup>2+</sup> (A = Alkaline Metal, Ln = rare-earth element) for lighting: Correlation between the host structure and Eu <sup>2+</sup> emission maxima. <i>Chemical Engineering Journal</i> , <b>2021</b> , 418, 129380	14.7	2
918	Tm:GGAG disordered garnet crystal for 2 μm diode-pumped solid-state laser. <i>Laser Physics Letters</i> , <b>2021</b> , 18, 115802	1.5	
917	Luminescence and scintillation properties of Gd <sub>3</sub> Sc <sub>2</sub> (Al <sub>3-x</sub> Ga <sub>x</sub> )O <sub>12</sub> :Ce (x = 1, 2, 3) garnet crystals. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 187, 109559	2.5	3
916	Crystal growth and optical properties of Ce-doped (La,Y) <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> single crystal. <i>Journal of Crystal Growth</i> , <b>2021</b> , 572, 126252	1.6	0
915	Substantial reduction of trapping by Mg co-doping in LuAG:Ce, Mg epitaxial garnet films. <i>Journal of Luminescence</i> , <b>2021</b> , 238, 118230	3.8	1
914	Scintillation yield and temperature dependence of radioluminescence of (Lu,Gd) <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce garnet crystals. <i>Optical Materials</i> , <b>2021</b> , 120, 111471	3.3	0
913	Peculiarities and the red shift of Eu <sup>2+</sup> luminescence in Gd <sup>3+</sup> -admixed YAG phosphors. <i>Optical Materials</i> , <b>2021</b> , 120, 111464	3.3	0
912	Scintillation characteristics and temperature quenching of radio- and photoluminescence of Mg <sup>2+</sup> -codoped (Lu,Gd) <sub>3</sub> Al <sub>2.4</sub> Ga <sub>2.6</sub> O <sub>12</sub> :Ce garnet crystals. <i>Optical Materials</i> , <b>2021</b> , 121, 111595	3.3	2
911	Cs <sub>2</sub> HfCl <sub>6</sub> doped with Zr: Influence of tetravalent substitution on scintillation properties. <i>Journal of Crystal Growth</i> , <b>2021</b> , 573, 126307	1.6	1
910	Scintillation Response Enhancement in Nanocrystalline Lead Halide Perovskite Thin Films on Scintillating Wafers.. <i>Nanomaterials</i> , <b>2021</b> , 12,	5.4	3
909	Diode-pumped laser and spectroscopic properties of Yb,Ho:GGAG at 2 μm and 3 μm. <i>Laser Physics Letters</i> , <b>2020</b> , 17, 035801	1.5	
908	Specific absorption in Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Eu ceramics and the role of stable Eu <sup>2+</sup> in energy transfer processes. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 8823-8839	7.1	10
907	Optical Properties of InGaN/GaN Multiple Quantum Well Structures Grown on GaN and Sapphire Substrates. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 974-977	1.7	0

906	Single-crystal growth, structure and luminescence properties of Cs <sub>2</sub> HfCl <sub>3</sub> Br <sub>3</sub> . <i>Optical Materials</i> , <b>2020</b> , 106, 109942	3.3	2
905	Optical and magnetic properties of nanostructured cerium-doped LaMgAl <sub>11</sub> O <sub>19</sub> . <i>Journal of Materials Research</i> , <b>2020</b> , 35, 1672-1679	2.5	1
904	Luminescence Spectroscopy and Origin of Luminescence Centers in Bi-Doped Materials. <i>Crystals</i> , <b>2020</b> , 10, 208	2.3	19
903	CsPbBr <sub>3</sub> Thin Films on LYSO:Ce Substrates. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 933-938	1.7	5
902	. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 1049-1054	1.7	0
901	Luminescence and Scintillation Properties of Mg <sup>2+</sup> -Codoped Lu <sub>0.6</sub> Gd <sub>2.4</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce Single Crystal. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 904-909	1.7	4
900	Growth and Scintillation Properties of a New Red-Emitting Scintillator RbMgF <sub>3</sub> for the Fiber-Reading Radiation Monitor. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 1055-1062	1.7	2
899	Rare-earth ions incorporation into Lu <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> scintillator crystals: Electron paramagnetic resonance and luminescence study. <i>Optical Materials</i> , <b>2020</b> , 106, 109930	3.3	3
898	Light Yield and Timing Characteristics of Lu <sub>1-x</sub> (Al <sub>1-x</sub> Gax)O <sub>3</sub> :Ce,Mg Single Crystals. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 2295-2299	1.7	0
897	Multiple shaped-crystal growth of oxide scintillators using Mo crucible and die by the edge defined film fed growth method. <i>Journal of Crystal Growth</i> , <b>2020</b> , 535, 125510	1.6	4
896	Tungsten co-doping effects on Ce:Gd <sub>3</sub> Ga <sub>3</sub> Al <sub>2</sub> O <sub>12</sub> scintillator grown by the micro-pulling down method. <i>Journal of Crystal Growth</i> , <b>2020</b> , 539, 125513	1.6	4
895	Synthesis of inorganic nanoparticles by ionizing radiation: a review. <i>Radiation Physics and Chemistry</i> , <b>2020</b> , 169, 108774	2.5	20
894	Bulk Single Crystal Growth of W Co-Doped Ce:Gd <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> by Czochralski Method. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 1045-1048	1.7	3
893	Electron and Hole Trapping in Ce <sup>3+</sup> - and Pr <sup>3+</sup> -Doped Lutetium Pyrosilicate Scintillator Crystals Studied by Electron Paramagnetic Resonance. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	1
892	Liquid phase epitaxy growth of high-performance composite scintillators based on single crystalline films and crystals of LuAG. <i>CrystEngComm</i> , <b>2020</b> , 22, 3713-3724	3.3	4
891	Fabrication and properties of Gd <sub>2</sub> O <sub>2</sub> S:Tb scintillation ceramics for the high-resolution neutron imaging. <i>Optical Materials</i> , <b>2020</b> , 105, 109909	3.3	4
890	Oxygen-vacancy donor-electron center in Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> garnet crystals: Electron paramagnetic resonance and dielectric spectroscopy study. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	18
889	Er:GGAG crystal temperature influence on spectroscopic and laser properties. <i>Optical Materials Express</i> , <b>2020</b> , 10, 1249	2.6	3

888	Synthesis routes of CeO <sub>2</sub> nanoparticles dedicated to organophosphorus degradation: a benchmark. <i>CrystEngComm</i> , <b>2020</b> , 22, 1725-1737	3.3	10
887	Fabrication and scintillation properties of Pr:Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> transparent ceramics from co-precipitated nanopowders. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 818, 152885	5.7	3
886	Modified vertical Bridgman method: Time and cost effective tool for preparation of Cs <sub>2</sub> HfCl <sub>6</sub> single crystals. <i>Journal of Crystal Growth</i> , <b>2020</b> , 533, 125479	1.6	8
885	Relationship Between Li/Ce Concentration and the Luminescence Properties of Codoped Gd <sub>3</sub> (Ga, Al) <sub>5</sub> O <sub>12</sub> :Ce. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 1900504	1.3	2
884	Calculations of Avrami exponent and applicability of Johnson-Mehl-Avrami model on crystallization in Er:LiY(PO <sub>3</sub> ) <sub>4</sub> phosphate glass. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 141, 1091-1099	4.1	5
883	Thermal analysis of cesium hafnium chloride using DSC-TG under vacuum, nitrogen atmosphere, and in enclosed system. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 141, 1101-1107	4.1	7
882	Microstructure evolution in two-step-sintering process toward transparent Ce:(Y,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> scintillation ceramics. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 846, 156377	5.7	3
881	Primordial Radioactivity and Prebiotic Chemical Evolution: Effect of Radiation on Formamide-Based Synthesis. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 8951-8959	3.4	1
880	Ariel: A window to the origin of life on early earth?. <i>Experimental Astronomy</i> , <b>2020</b> , 1	1.3	1
879	Scintillation characteristics of YAlO <sub>3</sub> :Pr perovskite single crystals. <i>Optical Materials</i> , <b>2020</b> , 108, 110161	3.3	1
878	Comparative study of structural, optical and magnetic properties of Er <sup>3+</sup> doped yttrium gallium borates. <i>Results in Physics</i> , <b>2020</b> , 19, 103247	3.7	1
877	Conference Comments by the Editors. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 875-875	1.7	
876	Zero-Dimensional Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> Perovskite Single Crystal as Sensitive X-Ray and γ-Ray Scintillator. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2020</b> , 14, 2000374	2.5	36
875	Influence of co-doped alumina on the microstructure and radioluminescence of SrHfO <sub>3</sub> :Ce ceramics. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 449-455	6	2
874	Variability of Eu <sup>2+</sup> -Emission Features in Multicomponent Alkali-Metal-Rare-Earth Sulfides. <i>ECS Journal of Solid State Science and Technology</i> , <b>2020</b> , 9, 016007	2	5
873	On the luminescence origin in Y <sub>2</sub> SiO <sub>5</sub> :Ce and Lu <sub>2</sub> SiO <sub>5</sub> :Ce single crystals. <i>Optical Materials</i> , <b>2020</b> , 103, 109832	3.3	6
872	Optical and magnetic properties of the ground state of Cr doping ions in REM(BO) single crystals. <i>Scientific Reports</i> , <b>2019</b> , 9, 12787	4.9	5
871	Ga for Al substitution effects on the garnet phase stability and luminescence properties of Gd <sub>3</sub> Ga <sub>x</sub> Al <sub>5-x</sub> O <sub>12</sub> :Ce single crystals. <i>Journal of Luminescence</i> , <b>2019</b> , 216, 116724	3.8	14

870	On low-temperature luminescence quenching in Gd <sub>3</sub> (Ga,Al)5O <sub>12</sub> :Ce crystals. <i>Optical Materials</i> , <b>2019</b> , 95, 109252	3.3	2
869	Doping nanoparticles using pulsed laser ablation in a liquid containing the doping agent. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 3963-3972	5.1	16
868	Alpha and gamma spectroscopy of composite scintillators based on the LuAG:Pr crystals and single crystalline films of LuAG:Ce and (Lu,Gd,Tb)AG:Ce garnets. <i>Optical Materials</i> , <b>2019</b> , 96, 109268	3.3	7
867	Advancement toward ultra-thick and bright InGaN/GaN structures with a high number of QWs. <i>CrystEngComm</i> , <b>2019</b> , 21, 356-362	3.3	14
866	Suppression of the slow scintillation component of Pr:Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> transparent ceramics by increasing Pr concentration. <i>Journal of Luminescence</i> , <b>2019</b> , 210, 14-20	3.8	10
865	On the structure, synthesis, and characterization of ultrafast blue-emitting CsPbBr <sub>3</sub> nanoplatelets. <i>APL Materials</i> , <b>2019</b> , 7, 011104	5.7	24
864	Highly luminescent cerium-doped YSO/ LSO microcrystals prepared via room temperature sol-gel route. <i>Radiation Measurements</i> , <b>2019</b> , 122, 84-90	1.5	2
863	Defects creation in the undoped Gd <sub>3</sub> (Ga,Al)5O <sub>12</sub> single crystals and Ce <sup>3+</sup> - doped Gd <sub>3</sub> (Ga,Al)5O <sub>12</sub> single crystals and epitaxial films under irradiation in the Gd <sup>3+</sup> - related absorption bands. <i>Optical Materials</i> , <b>2019</b> , 88, 601-605	3.3	6
862	Progress in fabrication of long transparent YAG:Ce and YAG:Ce,Mg single crystalline fibers for HEP applications. <i>CrystEngComm</i> , <b>2019</b> , 21, 1728-1733	3.3	13
861	Scintillation properties of Y-Admixed Gd <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> scintillator. <i>Radiation Measurements</i> , <b>2019</b> , 126, 106123	1.5	1
860	Luminescence study of rare-earth (RE)-doped low-energy phonon RbPb <sub>2</sub> Cl <sub>5</sub> crystals for mid-infrared (IR) lasers emitting above 4.5 $\mu$ m wavelength. <i>Laser Physics</i> , <b>2019</b> , 29, 075801	1.2	2
859	Electronic band modification for faster and brighter Ce,Mg:Lu <sub>3</sub> -xYxAl <sub>5</sub> O <sub>12</sub> ceramic scintillators. <i>Journal of Luminescence</i> , <b>2019</b> , 214, 116545	3.8	8
858	Ho <sup>3+</sup> codoping of YAG:Ce: Acceleration of Ce <sup>3+</sup> decay kinetics by energy transfer. <i>Journal of Luminescence</i> , <b>2019</b> , 213, 469-473	3.8	1
857	Effect of Si <sup>4+</sup> co-doping on luminescence and scintillation properties of Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce,Ca epitaxial garnet films. <i>Optical Materials</i> , <b>2019</b> , 91, 321-325	3.3	8
856	Crystal structure and luminescence studies of microcrystalline GGG:Bi <sup>3+</sup> and GGG:Bi <sup>3+</sup> ,Eu <sup>3+</sup> as a UV-to-VIS converting phosphor for white LEDs. <i>Journal of Luminescence</i> , <b>2019</b> , 213, 278-289	3.8	15
855	Scintillation properties of Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce, Li and Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce, Mg single crystal scintillators: A comparative study. <i>Optical Materials</i> , <b>2019</b> , 92, 181-186	3.3	13
854	Vanadium in yttrium aluminum garnet: Charge states and localization in the lattice. <i>Optical Materials</i> , <b>2019</b> , 91, 228-234	3.3	6
853	LPE growth and study of the Ce <sup>3+</sup> incorporation in LuAlO <sub>3</sub> :Ce single crystalline film scintillators. <i>CrystEngComm</i> , <b>2019</b> , 21, 3313-3321	3.3	9

852	Development of a novel red-emitting cesium hafnium iodide scintillator. <i>Radiation Measurements</i> , <b>2019</b> , 124, 54-58	1.5	10
851	Infrared spectroscopic properties of low-phonon lanthanide-doped KLuS <sub>2</sub> crystals. <i>Journal of Luminescence</i> , <b>2019</b> , 211, 100-107	3.8	7
850	LuAG:Pr codoped with Ho <sup>3+</sup> : Acceleration of Pr <sup>3+</sup> decay by energy transfer. <i>Radiation Measurements</i> , <b>2019</b> , 124, 122-126	1.5	3
849	Photochemical synthesis of nano- and micro-crystalline particles in aqueous solutions. <i>Applied Surface Science</i> , <b>2019</b> , 479, 506-511	6.7	9
848	Synthesis of inorganic nanoparticles by ionizing radiation: a review. <i>Radiation Physics and Chemistry</i> , <b>2019</b> , 158, 153-164	2.5	17
847	Al-doping effects on mechanical, optical and scintillation properties of Ce:(La,Gd) <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> single crystals. <i>Optical Materials</i> , <b>2019</b> , 87, 11-15	3.3	2
846	Electron and hole trapping in Eu- or Eu,Hf-doped LuPO <sub>4</sub> and YPO <sub>4</sub> tracked by EPR and TSL spectroscopy. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 11473-11482	7.1	10
845	Heavily Ce <sup>3+</sup> -doped Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> thin films deposited by a polymer sol-gel method for fast scintillation detectors. <i>CrystEngComm</i> , <b>2019</b> , 21, 5115-5123	3.3	6
844	Effect of Mg <sup>2+</sup> co-doping on the photo- and thermally stimulated luminescence of the (Lu,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> :Ce epitaxial films. <i>Journal of Luminescence</i> , <b>2019</b> , 215, 116608	3.8	10
843	Trapping and Recombination Centers in Cesium Hafnium Chloride Single Crystals: EPR and TSL Study. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 19402-19411	3.8	13
842	Lanthanide-doped Lu <sub>2</sub> O <sub>3</sub> phosphors and scintillators with green-to-red emission. <i>Journal of Luminescence</i> , <b>2019</b> , 215, 116647	3.8	12
841	Luminescence and scintillation properties of strontium hafnate and strontium zirconate single crystals. <i>Optical Materials</i> , <b>2019</b> , 98, 109494	3.3	0
840	Tm, Ho:GGAG crystal for 2.1 $\mu$ m tunable diode-pumped laser <b>2019</b> ,		1
839	Garnet Crystal Growth in Non-precious Metal Crucibles. <i>Springer Proceedings in Physics</i> , <b>2019</b> , 83-95	0.2	4
838	Luminescence and scintillation characteristics of cerium doped Gd <sub>2</sub> YGa <sub>3</sub> Al <sub>2</sub> O <sub>12</sub> ceramics. <i>Optical Materials</i> , <b>2019</b> , 90, 20-25	3.3	2
837	ETHANOL AS A MODIFIER OF RADIATION SENSITIVITY OF LIVING CELLS AGAINST UV-C RADIATION. <i>Radiation Protection Dosimetry</i> , <b>2019</b> , 186, 191-195	0.9	1
836	Core-shell ZnO:Ga-SiO nanocrystals: limiting particle agglomeration and increasing luminescence surface defect passivation.. <i>RSC Advances</i> , <b>2019</b> , 9, 28946-28952	3.7	6
835	RADIOPROTECTIVE EFFECT OF HYDROXYL RADICAL SCAVENGERS ON PROKARYOTIC AND EUKARYOTIC CELLS UNDER VARIOUS GAMMA IRRADIATION CONDITIONS. <i>Radiation Protection Dosimetry</i> , <b>2019</b> , 186, 186-190	0.9	1

834	The influence of air annealing on the microstructure and scintillation properties of Ce,Mg:LuAG ceramics. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 1805-1813	3.8	8
833	Epitaxial growth, photoluminescence and scintillation properties of Gd <sup>3+</sup> co-doped YAlO <sub>3</sub> :Ce <sup>3+</sup> films. <i>Radiation Measurements</i> , <b>2019</b> , 121, 86-90	1.5	3
832	InGaN/GaN multiple quantum well for superfast scintillation application: Photoluminescence measurements of the picosecond rise time and excitation density effect. <i>Journal of Luminescence</i> , <b>2019</b> , 208, 119-124	3.8	3
831	Europium-doped Lu <sub>2</sub> O <sub>3</sub> phosphors prepared by a sol-gel method. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 465, 012009	0.4	4
830	Novel scintillating nanocomposite for X-ray induced photodynamic therapy. <i>Radiation Measurements</i> , <b>2019</b> , 121, 13-17	1.5	5
829	Gallium preference for the occupation of tetrahedral sites in Lu <sub>3</sub> (Al <sub>5-x</sub> Ga <sub>x</sub> )O <sub>12</sub> multicomponent garnet scintillators according to solid-state nuclear magnetic resonance and density functional theory calculations. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 126, 93-104	3.9	9
828	Luminescence and scintillation properties of rare-earth-doped LaAlO <sub>3</sub> single crystals. <i>Radiation Measurements</i> , <b>2019</b> , 121, 26-31	1.5	15
827	Charge trapping processes and energy transfer studied in lead molybdate by EPR and TSL. <i>Journal of Luminescence</i> , <b>2019</b> , 205, 457-466	3.8	10
826	Photoinduced Preparation of Bandgap-Engineered Garnet Powders. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 2184-2190	1.7	3
825	Growth and luminescent properties of Ce and Eu doped Cesium Hafnium Iodide single crystalline scintillators. <i>Journal of Crystal Growth</i> , <b>2018</b> , 492, 1-5	1.6	11
824	LuAG:Pr-porphyrin based nanohybrid system for singlet oxygen production: Toward the next generation of PDTX drugs. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2018</b> , 179, 149-155	6.7	10
823	Scintillation Characteristics of GAGG:Ce Single-Crystalline Films Grown by Liquid Phase Epitaxy. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 2132-2135	1.7	1
822	Development of Composite Scintillators Based on Single Crystalline Films and Crystals of Ce <sup>3+</sup> -Doped (Lu,Gd) <sub>3</sub> (Al,Ga) <sub>5</sub> O <sub>12</sub> Mixed Garnet Compounds. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 1834-1842	3.5	17
821	Circadian Light Source Based on KxNa <sub>1-x</sub> LuS <sub>2</sub> :Eu <sup>2+</sup> Phosphor. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, R3182-R3188	2	5
820	Luminescence and scintillation characteristics of (GdxY <sub>3-x</sub> )Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce (x=1,2,3) single crystals. <i>Optical Materials</i> , <b>2018</b> , 76, 162-168	3.3	16
819	Comparative Study of GdLu <sub>2</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce and GdY <sub>2</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce Scintillation Crystals for $\gamma$ -Ray Detection. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 2081-2084	1.7	1
818	Fabrication and properties of Eu:Lu <sub>2</sub> O <sub>3</sub> transparent ceramics for X-ray radiation detectors. <i>Optical Materials</i> , <b>2018</b> , 80, 22-29	3.3	12
817	Afterglow and Quantum Tunneling in Ce-Doped Lutetium Aluminum Garnet. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 2085-2089	1.7	3



816	Effects of Gd/Lu ratio on the luminescence properties and garnet phase stability of Ce <sup>3+</sup> activated Gd <sub>x</sub> Lu <sub>3-x</sub> Al <sub>5</sub> O <sub>12</sub> single crystals. <i>Optical Materials</i> , <b>2018</b> , 80, 98-105	3.3	14
815	Demonstration of cellular imaging by using luminescent and anti-cytotoxic europium-doped hafnia nanocrystals. <i>Nanoscale</i> , <b>2018</b> , 10, 7933-7940	7.7	16
814	Li + , Na + and K + co-doping effects on scintillation properties of Ce:Gd <sub>3</sub> Ga <sub>3</sub> Al <sub>2</sub> O <sub>12</sub> single crystals. <i>Journal of Crystal Growth</i> , <b>2018</b> , 491, 1-5	1.6	7
813	Scintillating ceramics based on non-stoichiometric strontium hafnate. <i>Optical Materials</i> , <b>2018</b> , 77, 246-252	3.3	3
812	Influence of cerium doping concentration on the optical properties of Ce,Mg:LuAG scintillation ceramics. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 3246-3254	6	18
811	Mg,Ce co-doped Lu <sub>2</sub> Gd <sub>1</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> by micro-pulling down method and their luminescence properties. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 04FJ06	1.4	2
810	Effects of Ca/Sr ratio control on optical and scintillation properties of Eu-doped Li(Ca,Sr)AlF <sub>6</sub> single crystals. <i>Journal of Crystal Growth</i> , <b>2018</b> , 490, 71-76	1.6	3
809	Radio- and photoluminescence properties of Ce/Tb co-doped glasses with huntite-like composition. <i>Optical Materials</i> , <b>2018</b> , 78, 247-252	3.3	4
808	Fabrication and laser oscillation of Yb:Sc <sub>2</sub> O <sub>3</sub> transparent ceramics from co-precipitated nano-powders. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 1632-1638	6	18
807	Measurement of non-equilibrium carriers dynamics in Ce-doped YAG, LuAG and GAGG crystals with and without Mg-codoping. <i>Journal of Luminescence</i> , <b>2018</b> , 194, 1-7	3.8	20
806	Line-tunable Er:GGAG laser. <i>Optics Letters</i> , <b>2018</b> , 43, 3309-3312	3	7
805	YAG Ceramic Nanocrystals Implementation into MCVD Technology of Active Optical Fibers. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 833	2.6	9
804	Tailoring and Optimization of LuAG:Ce Epitaxial Film Scintillation Properties by Mg Co-Doping. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 4998-5007	3.5	11
803	Influence of gallium content on Ga <sup>3+</sup> position and photo- and thermally stimulated luminescence in Ce <sup>3+</sup> -doped multicomponent (Y,Lu) <sub>3</sub> Ga <sub>x</sub> Al <sub>5-x</sub> O <sub>12</sub> garnets. <i>Journal of Luminescence</i> , <b>2018</b> , 200, 141-150	3.8	8
802	Scintillation properties of Gd <sub>3</sub> (Al <sub>5-x</sub> Ga <sub>x</sub> )O <sub>12</sub> :Ce (x = 2.3, 2.6, 3.0) single crystals. <i>Optical Materials</i> , <b>2018</b> , 81, 23-29	3.3	12
801	Conference Comments by the Editors. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 1976-1976	1.7	
800	Fabrication and optical properties of cerium doped Lu <sub>3</sub> Ga <sub>3</sub> Al <sub>2</sub> O <sub>12</sub> scintillation ceramics. <i>Optical Materials</i> , <b>2018</b> , 85, 121-126	3.3	9
799	Wavelength tunability of laser based on Yb-doped GGAG crystal. <i>Laser Physics</i> , <b>2018</b> , 28, 105802	1.2	6

798	Role of Multiple Charge States of Ce in the Scintillation of ABO <sub>3</sub> Perovskites. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	8
797	Octahedral molybdenum clusters as radiosensitizers for X-ray induced photodynamic therapy. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 4301-4307	7.3	34
796	LANTHANIDE-DOPED Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> : THE PHOTOLUMINESCENT AND RADIOLUMINESCENT PROPERTIES OF SOL-GEL PREPARED SAMPLES. <i>Ceramics - Silikaty</i> , <b>2018</b> , 411-417	0.6	3
795	Ultrafast Zn(Cd,Mg)O:Ga nanoscintillators with luminescence tunable by band gap modulation. <i>Optics Express</i> , <b>2018</b> , 26, 29482-29494	3.3	6
794	Effect of Ga content on luminescence and defects formation processes in Gd <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> :Ce single crystals. <i>Optical Materials</i> , <b>2018</b> , 75, 331-336	3.3	12
793	Light yield and light loss coefficient of Pr <sup>3+</sup> doped Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> crystals with different Pr <sup>3+</sup> concentration under excitation with hard X-rays. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 15029-15033	1.4	3
792	Effects of irradiation conditions on the radiation sensitivity of microorganisms in the presence of OH-radical scavengers. <i>International Journal of Radiation Biology</i> , <b>2018</b> , 94, 1142-1150	2.9	2
791	Sorption properties of selected oxidic nanoparticles for the treatment of spent decontamination solutions based on citric acid. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2018</b> , 318, 2443-2448	1.5	0
790	Hole Self-Trapping in Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> and Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> Garnet Crystals. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	31
789	Concentration dependence of energy transfer Ce <sup>3+</sup> →Er <sup>3+</sup> in YAG host. <i>Optical Materials</i> , <b>2018</b> , 86, 338-342	3.3	4
788	Composite scintillators based on the crystals and single crystalline films of LuAG garnet doped with Ce <sup>3+</sup> , Pr <sup>3+</sup> and Sc <sup>3+</sup> ions. <i>Optical Materials</i> , <b>2018</b> , 84, 593-599	3.3	7
787	The influences of stoichiometry on the sintering behavior, optical and scintillation properties of Pr:LuAG ceramics. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 4252-4259	6	9
786	Luminescence processes in Ti-doped LiAlO <sub>2</sub> single crystals for neutron scintillators. <i>Journal of Luminescence</i> , <b>2018</b> , 201, 231-244	3.8	2
785	Epitaxial growth of composite scintillators based on Tb <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> : Ce single crystalline films and Gd <sub>3</sub> Al <sub>2.5</sub> Ga <sub>2.5</sub> O <sub>12</sub> : Ce crystal substrates. <i>CrystEngComm</i> , <b>2018</b> , 20, 3994-4002	3.3	11
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783	Needs, Trends, and Advances in Inorganic Scintillators. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 1977-1997	1.7	178
782	. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 2169-2173	1.7	6
781	Dependence of Ce <sup>3+</sup> - related photo- and thermally stimulated luminescence characteristics on Mg <sup>2+</sup> content in single crystals and epitaxial films of Gd <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> :Ce,Mg. <i>Optical Materials</i> , <b>2018</b> , 83, 290-299	3.3	15

780	Improvement of the growth of Li <sub>4</sub> SiO <sub>4</sub> single crystals for neutron detection and their scintillation and luminescence properties. <i>Journal of Crystal Growth</i> , <b>2017</b> , 457, 143-150	1.6	2
779	Luminescence quenching and scintillation response in the Ce <sup>3+</sup> doped Gd <sub>x</sub> Y <sub>3-x</sub> Al <sub>5</sub> O <sub>12</sub> (x=0.75, 1, 1.25, 1.5, 1.75, 2) single crystals. <i>Optical Materials</i> , <b>2017</b> , 63, 134-142	3.3	20
778	Luminescence and light yield of (Gd <sub>2</sub> Y)(Ga <sub>3</sub> Al <sub>2</sub> )O <sub>12</sub> :Pr <sup>3+</sup> single crystal scintillators. <i>Journal of Crystal Growth</i> , <b>2017</b> , 468, 369-372	1.6	2
777	Effects of Na co-doping on optical and scintillation properties of Eu:LiCaAlF <sub>6</sub> scintillator single crystals. <i>Journal of Crystal Growth</i> , <b>2017</b> , 468, 399-402	1.6	6
776	Luminescence and scintillation properties of liquid phase epitaxy grown Y <sub>2</sub> SiO <sub>5</sub> :Ce single crystalline films. <i>Journal of Crystal Growth</i> , <b>2017</b> , 468, 275-277	1.6	1
775	Effect of Li <sup>+</sup> ions co-doping on luminescence, scintillation properties and defects characteristics of LuAG:Ce ceramics. <i>Optical Materials</i> , <b>2017</b> , 64, 245-249	3.3	18
774	Thermochromic Fluorescence from B <sub>18</sub> H <sub>20</sub> (NC <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> : An Inorganic/Organic Composite Luminescent Compound with an Unusual Molecular Geometry. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600694	8.1	33
773	Effect of Mg <sup>2+</sup> ions co-doping on luminescence and defects formation processes in Gd <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> :Ce single crystals. <i>Optical Materials</i> , <b>2017</b> , 66, 48-58	3.3	21
772	5d-4f Radioluminescence in Pr <sup>3+</sup> -doped K <sub>3</sub> YxLu <sub>1-x</sub> (PO <sub>4</sub> ) <sub>2</sub> . <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2017</b> , 489-490	0.2	
771	Garnet Scintillators of Superior Timing Characteristics: Material, Engineering by Liquid Phase Epitaxy. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600875	8.1	15
770	Temperature dependence of CIE-x,y color coordinates in YAG:Ce single crystal phosphor. <i>Journal of Luminescence</i> , <b>2017</b> , 187, 20-25	3.8	20
769	Timing capabilities of garnet crystals for detection of high energy charged particles. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2017</b> , 852, 1-9	1.2	29
768	Luminescence and energy transfer processes in Ce <sup>3+</sup> activated (Gd,Tb) <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> single crystalline films. <i>Journal of Luminescence</i> , <b>2017</b> , 188, 60-66	3.8	14
767	On the origin of the ultraviolet photoluminescence in the Ce <sup>3+</sup> -doped epitaxial films of multicomponent (Lu,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> garnets. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1600570	1.3	1
766	Origin of Bi <sup>3+</sup> -related luminescence in Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> :Bi epitaxial films. <i>Journal of Luminescence</i> , <b>2017</b> , 190, 81-88	3.8	15
765	Development and melt growth of novel scintillating halide crystals. <i>Optical Materials</i> , <b>2017</b> , 74, 109-119	3.3	4
764	Luminescence and Charge Trapping in Cs <sub>2</sub> HfCl <sub>6</sub> Single Crystals: Optical and Magnetic Resonance Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 12375-12382	3.8	21
763	Luminescence, scintillation, and energy transfer in SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -Li <sub>2</sub> O <sub>3</sub> :Ce <sup>3+</sup> ,Pr <sup>3+</sup> glasses. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2017</b> , 214, 1700072	1.6	2

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761	Scintillator materials for x-ray detectors and beam monitors. <i>MRS Bulletin</i> , <b>2017</b> , 42, 451-457	3.2	26
760	The role of air annealing on the optical and scintillation properties of Mg co-doped Pr:LuAG transparent ceramics. <i>Optical Materials</i> , <b>2017</b> , 72, 201-207	3.3	9
759	Tetranuclear Copper(I) Iodide Complexes: A New Class of X-ray Phosphors. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 4610-4615	5.1	33
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757	Cesium hafnium chloride scintillator coupled with an avalanche photodiode photodetector. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, C02042-C02042	1	12
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754	Mixed vanadates: Optimization of optical properties by varying chemical composition. <i>Journal of Luminescence</i> , <b>2017</b> , 189, 140-147	3.8	5
753	EPR study of Ce <sup>3+</sup> luminescent centers in the Y <sub>2</sub> SiO <sub>5</sub> single crystalline films. <i>Optical Materials</i> , <b>2017</b> , 72, 833-837	3.3	6
752	At the crossroad of photochemistry and radiation chemistry: formation of hydroxyl radicals in diluted aqueous solutions exposed to ultraviolet radiation. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 29402-29408	3.6	9
751	High efficiency laser action in mildly doped Yb:LuYAG ceramics. <i>Optical Materials</i> , <b>2017</b> , 73, 312-318	3.3	16
750	Subpicosecond luminescence rise time in magnesium codoped GAGG:Ce scintillator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2017</b> , 870, 25-29	1.2	28
749	Electron self-trapped at molybdenum complex in lead molybdate: An EPR and TSL comparative study. <i>Journal of Luminescence</i> , <b>2017</b> , 192, 767-774	3.8	12
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744	Luminescence and scintillation properties of Mg-codoped LuAG:Pr single crystals annealed in air. <i>Journal of Luminescence</i> , <b>2017</b> , 181, 277-285	3.8	28
743	The temperature dependence studies of rare-earth (Dy <sup>3+</sup> , Sm <sup>3+</sup> , Eu <sup>3+</sup> and Tb <sup>3+</sup> ) activated Gd <sub>3</sub> Ga <sub>3</sub> Al <sub>2</sub> O <sub>12</sub> garnet single crystals. <i>Journal of Luminescence</i> , <b>2017</b> , 189, 126-139	3.8	12
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740	Comparison of luminescence, energy resolution and light loss coefficient of Gd <sub>1.53</sub> La <sub>0.47</sub> Si <sub>2</sub> O <sub>7</sub> :Ce and Lu <sub>1.9</sub> Y <sub>0.1</sub> SiO <sub>5</sub> :Ce scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2017</b> , 844, 129-134	1.2	2
739	Crystal growth and optical properties of indium doped LiCaAlF <sub>6</sub> scintillator single crystals. <i>Optical Materials</i> , <b>2017</b> , 65, 69-72	3.3	2
738	Chapter 6 Luminescence of Pb- and Bi-Related Centers in Aluminum Garnet, Perovskite, and Orthosilicate Single-Crystalline Films <b>2017</b> , 227-302		3
737	Chapter 7 ZnO-Based Phosphors and Scintillators: Preparation, Characterization, and Performance <b>2017</b> , 303-332		1
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734	ALnS <sub>2</sub> :RE (A=K, Rb; Ln=La, Gd, Lu, Y): New optical materials family. <i>Journal of Luminescence</i> , <b>2016</b> , 170, 718-735	3.8	22
733	Crystal growth and scintillation properties of multi-component oxide single crystals: Ce:GGAG and Ce:La-GPS. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 387-393	3.8	24
732	Energy resolution studies of Ce- and Pr-doped aluminum and multicomponent garnets: The escape and photo-peaks. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 701-705	3.8	3
731	Luminescence mechanism in doubly Gd, Nd-codoped fluoride crystals for VUV scintillators. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 682-689	3.8	5
730	Scintillation timing characteristics of (La,Gd) <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> :Ce and Gd <sub>2</sub> SiO <sub>5</sub> :Ce single crystal scintillators: A comparative study. <i>Radiation Measurements</i> , <b>2016</b> , 92, 49-53	1.5	3
729	Luminescence and scintillation properties of Lu <sub>0.8</sub> Gd <sub>1.2</sub> SiO <sub>5</sub> :Ce and Lu <sub>1.8</sub> Gd <sub>0.2</sub> SiO <sub>5</sub> :Ce single crystals: A comparative study. <i>Radiation Measurements</i> , <b>2016</b> , 93, 1-6	1.5	1
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727	Timing performance of ZnO:Ga nanopowder composite scintillators. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2016</b> , 10, 843-847	2.5	19

726	Determination of the position of the 5d excited levels of Ce <sup>3+</sup> ions with respect to the conduction band in the epitaxial films of the multicomponent (Lu,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> :Ce garnets. <i>Optical Materials</i> , <b>2016</b> , 62, 465-474	3.3	9
725	Tunable Eu <sup>2+</sup> emission in K x Na 1x LuS 2 phosphors for white LED application. <i>Materials and Design</i> , <b>2016</b> , 106, 363-370	8.1	16
724	Luminescence and scintillation properties of Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> nanoceramics sintered by SPS method. <i>Optical Materials</i> , <b>2016</b> , 53, 54-63	3.3	11
723	Gamma-radiolytic preparation of multi-component oxides. <i>Radiation Physics and Chemistry</i> , <b>2016</b> , 124, 68-74	2.5	3
722	Scintillation response of Ce <sup>3+</sup> doped GdGa-LuAG multicomponent garnet films under e-beam excitation. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 674-677	3.8	17
721	The role of cerium variable charge state in the luminescence and scintillation mechanism in complex oxide scintillators: The effect of air annealing. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 539-543	3.8	24
720	Growth and luminescent properties of scintillators based on the single crystalline films of (Lu,Gd) <sub>3</sub> (Al,Ga) <sub>5</sub> O <sub>12</sub> :Ce garnets. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 828-837	3.8	22
719	Electron paramagnetic resonance study of exchange coupled Ce <sup>3+</sup> ions in Lu <sub>2</sub> SiO <sub>5</sub> single crystal scintillator. <i>Radiation Measurements</i> , <b>2016</b> , 90, 23-26	1.5	7
718	The Stable $\text{Ce}^{4+}$ Center: A New Tool to Optimize Ce-Doped Oxide Scintillators. <i>IEEE Transactions on Nuclear Science</i> , <b>2016</b> , 63, 433-438	1.7	30
717	Scintillation properties of Zr co-doped Ce:(Gd, La) <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> grown by the Czochralski process. <i>Radiation Measurements</i> , <b>2016</b> , 90, 162-165	1.5	6
716	Photo- and radioluminescence of Dy <sup>3+</sup> -doped oxide glass with high-Gd <sub>2</sub> O <sub>3</sub> content. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 133-138	1.6	1
715	Luminescence and Scintillation Response of Ce <sup>3+</sup> -Doped Oxide Glasses with High Gd <sub>2</sub> O <sub>3</sub> Content. <i>Key Engineering Materials</i> , <b>2016</b> , 675-676, 434-437	0.4	0
714	Preparation of Zn(Cd)O:GaBiO <sub>2</sub> composite scintillating materials. <i>Radiation Measurements</i> , <b>2016</b> , 90, 59-63	1.5	4
713	Luminescence and energy transfer processes in (Lu,Tb) <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> single crystalline films doped with Ce <sup>3+</sup> . <i>Journal of Luminescence</i> , <b>2016</b> , 173, 141-148	3.8	15
712	Effects of Na and K co-doping on growth and scintillation properties of Eu:SrI <sub>2</sub> crystals. <i>Radiation Measurements</i> , <b>2016</b> , 90, 157-161	1.5	4
711	Luminescence and Scintillation Characteristics of Gd <sub>2</sub> SiO <sub>5</sub> : Ce Single Crystal Scintillator. <i>Key Engineering Materials</i> , <b>2016</b> , 675-676, 772-775	0.4	
710	Preliminary study on singlet oxygen production using CeF <sub>3</sub> :Tb <sup>3+</sup> @SiO <sub>2</sub> -PpIX. <i>Radiation Measurements</i> , <b>2016</b> , 90, 325-328	1.5	13
709	Scintillating Screens Based on the Single Crystalline Films of Multicomponent Garnets: New Achievements and Possibilities. <i>IEEE Transactions on Nuclear Science</i> , <b>2016</b> , 63, 497-502	1.7	9

708	Intrinsic Light Yield and Light Loss Coefficient of LuAG: Pr under Excitation with $\beta$ and $\gamma$ Rays. <i>Key Engineering Materials</i> , <b>2016</b> , 675-676, 768-771	0.4	
707	X-ray Inducible Luminescence and Singlet Oxygen Sensitization by an Octahedral Molybdenum Cluster Compound: A New Class of Nanoscintillators. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 803-9	5.1	83
706	Growth and scintillation properties of praseodymium doped (Lu,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> single crystals. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 811-815	3.8	3
705	Optical, luminescence and scintillation characteristics of non - stoichiometric LuAG:Ce ceramics. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 72-77	3.8	20
704	Optical and scintillation properties of Ce <sup>3+</sup> -doped YGd <sub>2</sub> Al <sub>5-x</sub> Ga <sub>x</sub> O <sub>12</sub> (x=2,3,4) single crystal scintillators. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 43-50	3.8	25
703	E-beam and UV induced fabrication of CeO <sub>2</sub> , Eu <sub>2</sub> O <sub>3</sub> and their mixed oxides with UO <sub>2</sub> . <i>Radiation Physics and Chemistry</i> , <b>2016</b> , 124, 252-257	2.5	1
702	Temperature Dependence of Luminescence Properties for Zr Codoped Ce:(Gd, La) <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> Scintillator <b>2016</b> ,		1
701	Faster than 10 ns scintillator material based on YAP:Pr <b>2016</b> , 364-365		
700	Luminescence and photo-thermally stimulated defect-creation processes in Bi <sup>3+</sup> -doped single crystals of lead tungstate. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 895-910	1.3	20
699	Towards Bright and Fast Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce,Mg Optical Ceramics Scintillators. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 731-739	8.1	64
698	LiCaAlF <sub>6</sub> scintillators in neutron and gamma radiation fields. <i>International Journal of Modern Physics Conference Series</i> , <b>2016</b> , 44, 1660234	0.7	2
697	First laser operation and spectroscopic characterization of mixed garnet Yb:LuYAG ceramics <b>2016</b> ,		1
696	Growth and scintillation properties of 3 in. diameter Ce doped Gd <sub>3</sub> Ga <sub>3</sub> Al <sub>2</sub> O <sub>12</sub> scintillation single crystal. <i>Journal of Crystal Growth</i> , <b>2016</b> , 452, 81-84	1.6	30
695	Tm:GGAG crystal for 2 $\mu$ m tunable diode-pumped laser <b>2016</b> ,		1
694	Phosphate content influence on structural, spectroscopic, and lasing properties of Er,Yb-doped potassium-lanthanum phosphate glasses. <i>Optical Engineering</i> , <b>2016</b> , 55, 047102	1.1	3
693	Large Size Czochralski Growth and Scintillation Properties of $\text{Mg}^{2+}$ Co-doped $\text{Ce:Gd}_3\text{Ga}_3\text{Al}_2\text{O}_{12}$ . <i>IEEE Transactions on Nuclear Science</i> , <b>2016</b> , 63, 443-447	1.7	39
692	Growth and Luminescence Properties of $\text{Eu:Sr}_2$ Single Crystals Prepared by Modified Micro-Pulling-Down Method. <i>IEEE Transactions on Nuclear Science</i> , <b>2016</b> , 63, 453-458	1.7	9
691	Effects of Ga Content on Optical and Scintillation Properties in Ce <sup>3+</sup> -Doped YGd <sub>2</sub> (Al,Ga) <sub>5</sub> O <sub>12</sub> Scintillators. <i>Key Engineering Materials</i> , <b>2016</b> , 675-676, 552-555	0.4	

690	Luminescence and excited state dynamics in Bi <sup>3+</sup> -doped LiLaP <sub>4</sub> O <sub>12</sub> phosphates. <i>Journal of Luminescence</i> , <b>2016</b> , 176, 324-330	3.8	13
689	Effect of Mg <sup>2+</sup> ions co-doping on timing performance and radiation tolerance of Cerium doped Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> crystals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2016</b> , 816, 176-183	1.2	71
688	Growth and scintillation properties of Li and Ce co-doped Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> scintillator. <i>Journal of Crystal Growth</i> , <b>2016</b> , 452, 85-88	1.6	9
687	Luminescence and scintillation response of YGd <sub>2</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce and LuGd <sub>2</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce scintillators. <i>Radiation Measurements</i> , <b>2016</b> , 90, 153-156	1.5	6
686	First laser emission of Yb <sub>0.15</sub> (Lu <sub>0.5</sub> Y <sub>0.5</sub> ) <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> ceramics. <i>Optics Express</i> , <b>2016</b> , 24, 9611-6	3.3	17
685	Growth and radioluminescence of metal elements doped LiCaAlF <sub>6</sub> single crystals for neutron scintillator. <i>Radiation Measurements</i> , <b>2016</b> , 90, 170-173	1.5	3
684	Eu <sup>2+</sup> Stabilization in YAG Structure: Optical and Electron Paramagnetic Resonance Study. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 21751-21761	3.8	27
683	Aluminum and Gallium Substitution in Yttrium and Lutetium Aluminum-Gallium Garnets: Investigation by Single-Crystal NMR and TSL Methods. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 24400-24408	3.8	43
682	Photostimulated luminescence and defects creation processes in Ce <sup>3+</sup> -doped epitaxial films of multicomponent Lu <sub>3-x</sub> Gd <sub>x</sub> Al <sub>5-y</sub> O <sub>12</sub> garnets. <i>Journal of Luminescence</i> , <b>2016</b> , 179, 487-495	3.8	15
681	Luminescent and scintillation properties of Sc <sup>3+</sup> and La <sup>3+</sup> doped Y <sub>2</sub> SiO <sub>5</sub> powders and single crystalline films. <i>Journal of Luminescence</i> , <b>2016</b> , 179, 445-450	3.8	4
680	Spectroscopic and laser characterization of Yb <sub>0.15</sub> (Lu <sub>x</sub> Y <sub>1-x</sub> ) <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> ceramics with different Lu/Y balance. <i>Optics Express</i> , <b>2016</b> , 24, 17832-42	3.3	14
679	Preparation and luminescence properties of ZnO:Ga - polystyrene composite scintillator. <i>Optics Express</i> , <b>2016</b> , 24, 15289-98	3.3	46
678	Photo and radiation induced synthesis of (Ni, Zn)O or mixed NiO <sub>1-x</sub> ZnO <sub>x</sub> oxides. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2015</b> , 304, 245-250	1.5	4
677	Nonstoichiometry of Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> single crystal and its effects of on luminescence and scintillation properties. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 619, 012035	0.3	1
676	Growth and luminescent properties of scintillators based on the single crystalline films of Lu <sub>3-x</sub> Gd <sub>x</sub> Al <sub>5</sub> O <sub>12</sub> :Ce garnet. <i>Materials Research Bulletin</i> , <b>2015</b> , 64, 355-363	5.1	27
675	Electron Spin Resonance study of charge trapping in ZnMoO <sub>4</sub> single crystal scintillator. <i>Optical Materials</i> , <b>2015</b> , 47, 244-250	3.3	18
674	Temperature-dependent nonradiative energy transfer from Gd <sup>3+</sup> to Ce <sup>3+</sup> ions in co-doped LuAG:Ce,Gd garnet scintillators. <i>Journal of Luminescence</i> , <b>2015</b> , 167, 106-113	3.8	34
673	Luminescence and excited state dynamics of Bi <sup>3+</sup> centers in Y <sub>2</sub> O <sub>3</sub> . <i>Journal of Luminescence</i> , <b>2015</b> , 167, 268-277	3.8	20



672	Fabrication of highly efficient ZnO nanoscintillators. <i>Optical Materials</i> , <b>2015</b> , 47, 67-71	3.3	27
671	Improvement of scintillation properties on Ce doped Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> scintillator by divalent cations co-doping. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 04DH17	1.4	22
670	Breaking DNA strands by extreme-ultraviolet laser pulses in vacuum. <i>Physical Review E</i> , <b>2015</b> , 91, 042718	2.4	10
669	ESR and TSL study of hole and electron traps in LuAG:Ce,Mg ceramic scintillator. <i>Optical Materials</i> , <b>2015</b> , 45, 252-257	3.3	18
668	Time-resolved spectroscopy of Bi <sup>3+</sup> centers in Y <sub>4</sub> Al <sub>2</sub> O <sub>9</sub> . <i>Optical Materials</i> , <b>2015</b> , 46, 104-108	3.3	9
667	Recent R&D Trends in Inorganic Single-Crystal Scintillator Materials for Radiation Detection. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 463-481	8.1	371
666	O <sup>2-</sup> centers in LuAG:Ce,Mg ceramics. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2015</b> , 9, 245-249	2.5	31
665	Characterization of the lasing properties of a 5%Yb doped LuBiO <sub>4</sub> crystal along its three principal dielectric axes. <i>Optics Express</i> , <b>2015</b> , 23, 13210-21	3.3	9
664	Energy transfer processes in Ca <sub>3</sub> Tb <sub>2</sub> Eu <sub>x</sub> Si <sub>3</sub> O <sub>12</sub> (x=0). <i>Optical Materials</i> , <b>2015</b> , 48, 252-257	3.3	9
663	Composition Tailoring in Ce-Doped Multicomponent Garnet Epitaxial Film Scintillators. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 3715-3723	3.5	35
662	Luminescent materials: probing the excited state of emission centers by spectroscopic methods. <i>Measurement Science and Technology</i> , <b>2015</b> , 26, 012001	2	8
661	Origin of slow low-temperature luminescence in undoped and Ce-doped Y <sub>2</sub> SiO <sub>5</sub> and Lu <sub>2</sub> SiO <sub>5</sub> single crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 274-281	1.3	8
660	Alkali earth co-doping effects on luminescence and scintillation properties of Ce doped Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> scintillator. <i>Optical Materials</i> , <b>2015</b> , 41, 63-66	3.3	98
659	Growth of 2-inch size Ce:doped Lu <sub>2</sub> Gd <sub>1</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> single crystal by the Czochralski method and their scintillation properties. <i>Journal of Crystal Growth</i> , <b>2015</b> , 410, 14-17	1.6	2
658	Electron paramagnetic resonance study of the Ce <sup>3+</sup> pair centers in YAlO <sub>3</sub> :Ce scintillator crystals. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	9
657	Optical, Structural and Paramagnetic Properties of Eu-Doped Ternary Sulfides A <sub>2</sub> LnS <sub>4</sub> (A = Na, K, Rb; Ln = La, Gd, Lu, Y). <i>Materials</i> , <b>2015</b> , 8, 6978-6998	3.5	27
656	Temperature dependent luminescence characteristics of KBe <sub>2</sub> BO <sub>3</sub> F <sub>2</sub> and RbBe <sub>2</sub> BO <sub>3</sub> F <sub>2</sub> . <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 80, 012015	0.4	1
655	Energy migration processes in undoped and Ce-doped multicomponent garnet single crystal scintillators. <i>Journal of Luminescence</i> , <b>2015</b> , 166, 117-122	3.8	36

654	Band-Gap and Band-Edge Engineering of Multicomponent Garnet Scintillators from First Principles. <i>Physical Review Applied</i> , <b>2015</b> , 4,	4.3	46
653	Nanocrystalline Eu-doped Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> phosphor prepared by radiation method. <i>Optical Materials</i> , <b>2015</b> , 40, 102-106	3.3	3
652	Low temperature delayed recombination decay in scintillating garnets. <i>Optical Materials</i> , <b>2015</b> , 40, 127-134	3.3	15
651	Luminescence characteristics of doubly doped KLuS <sub>2</sub> :Eu, RE (RE = Pr, Sm, Ce). <i>Optical Materials</i> , <b>2015</b> , 41, 94-97	3.3	14
650	Co-doping effects on luminescence and scintillation properties of Ce doped Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> scintillator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2015</b> , 782, 9-12	1.2	19
649	Fabrication and Scintillation Performance of Nonstoichiometric LuAG:Ce Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 510-514	3.8	20
648	Electron Paramagnetic Resonance Investigation of Ce <sup>3+</sup> , Er <sup>3+</sup> , Nd <sup>3+</sup> Impurity Centers in Y <sub>0.7</sub> Lu <sub>0.3</sub> AlO <sub>3</sub> Single Crystals. <i>Advanced Science, Engineering and Medicine</i> , <b>2015</b> , 7, 258-264	0.6	2
647	Scintillation properties of Gd <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce <sup>3+</sup> single crystal scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 751, 1-5	1.2	18
646	CsI:Tl+,Yb <sup>2+</sup> : ultra-high light yield scintillator with reduced afterglow. <i>CrystEngComm</i> , <b>2014</b> , 16, 3312-3317	3.7	33
645	Low Temperature Delayed Recombination Decay in Complex Oxide Scintillating Crystals. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 257-261	1.7	9
644	Czochralski Growth and Scintillation Properties of $\text{Ce}:(\text{Gd}, \text{Y}, \text{Lu})_3(\text{Al}, \text{Ga})_5\text{O}_{12}$ Single Crystals. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 293-296	1.7	3
643	Growth of Sc doped RE <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> (RE = Y, Lu) single crystals by micro-pulling-down method and their scintillation properties. <i>Optical Materials</i> , <b>2014</b> , 36, 1934-1937	3.3	2
642	Energy Transfer and Scintillation Properties of $\text{Ce}^{3+}$ Doped $\text{(LuYGd)}_3\text{(AlGa)}_5\text{O}_{12}$ Multicomponent Garnets. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 282-289	1.7	24
641	Effects of anisotropy on structural and optical characteristics of LYSO:Ce crystal. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 1202-1211	1.3	11
640	Comparison of the scintillation and luminescence properties of the (Lu <sub>1-x</sub> Gdx) <sub>2</sub> SiO <sub>5</sub> :Ce single crystal scintillators. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 365304	3	16
639	Luminescence Characteristics of the Ce <sup>3+</sup> -Doped Pyrosilicates: The Case of La-Admixed Gd <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> Single Crystals. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 26521-26529	3.8	30
638	Electron and hole traps in X-ray irradiated Y <sub>2</sub> SiO <sub>5</sub> and Lu <sub>2</sub> SiO <sub>5</sub> crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 741-747	1.3	6
637	Electron and hole traps in yttrium orthosilicate single crystals: The critical role of Si-unbound oxygen. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	28

636	. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 448-451	1.7	7
635	Defect Engineering in Ce-Doped Aluminum Garnet Single Crystal Scintillators. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 4827-4833	3.5	154
634	Rare-earth antisites in lutetium aluminum garnets: Influence on lattice parameter and Ce <sup>3+</sup> multicenter structure. <i>Optical Materials</i> , <b>2014</b> , 36, 1515-1519	3.3	24
633	Luminescence and Scintillation Properties of Scintillators Based on Orthorhombic and Monoclinic BaLu <sub>2</sub> F <sub>8</sub> Single Crystals. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 411-418	1.7	1
632	Optical properties of Ce <sup>3+</sup> -doped KLu <sub>2</sub> phosphor. <i>Journal of Luminescence</i> , <b>2014</b> , 147, 196-201	3.8	19
631	Optical and Structural Properties of RE <sup>3+</sup> -Doped KLnS <sub>2</sub> Compounds. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 385-389	1.7	14
630	Intrinsic light yield and light loss coefficient of Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> single crystals. <i>Optical Materials</i> , <b>2014</b> , 36, 2030-2033	3.3	6
629	Cz grown 2-in. size Ce:Gd <sub>3</sub> (Al,Ga) <sub>5</sub> O <sub>12</sub> single crystal; relationship between Al, Ga site occupancy and scintillation properties. <i>Optical Materials</i> , <b>2014</b> , 36, 1942-1945	3.3	113
628	Time-resolved photoluminescence and excited state structure of Bi <sup>3+</sup> center in YAlO <sub>3</sub> . <i>Optical Materials</i> , <b>2014</b> , 36, 1705-1708	3.3	13
627	Indirect synthesis of Al <sub>2</sub> O <sub>3</sub> via radiation- or photochemical formation of its hydrated precursors. <i>Materials Research Bulletin</i> , <b>2014</b> , 49, 633-639	5.1	6
626	Luminescent and scintillation properties of Bi <sup>3+</sup> doped Y <sub>2</sub> SiO <sub>5</sub> and Lu <sub>2</sub> SiO <sub>5</sub> single crystalline films. <i>Journal of Luminescence</i> , <b>2014</b> , 154, 525-530	3.8	14
625	Luminescence and scintillation properties of advanced Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Pr <sup>3+</sup> single crystal scintillators. <i>Radiation Measurements</i> , <b>2014</b> , 60, 42-45	1.5	14
624	A comparison of the laser performance of Yb <sup>3+</sup> :LuAG crystals with different doping levels. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 497, 012009	0.3	1
623	Conference comments by the Editors. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 228-228	1.7	
622	Intrinsic defects, nonstoichiometry, and aliovalent doping of ABO perovskite scintillators. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 2279-2286	1.3	13
621	Fundamental study of inorganic-organic hybrid scintillator using Pr:Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> and plastic scintillator. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 04EH10	1.4	2
620	On the origin of cerium-related centres in lead-containing single crystalline films of Y <sub>2</sub> SiO <sub>5</sub> : Ce and Lu <sub>2</sub> SiO <sub>5</sub> : Ce. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 065303	3	16
619	Experimental evidence of a nonlinear loss mechanism in highly doped Yb:LuAG crystal. <i>Optics Express</i> , <b>2014</b> , 22, 4038-49	3.3	13

618	Growth and luminescent properties of (Tb,Gd) <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce single crystalline films <b>2014</b> ,		1
617	Luminescence properties and scintillation response in Ce <sup>3+</sup> -doped Y <sub>2</sub> Gd <sub>1</sub> Al <sub>5-x</sub> GaxO <sub>12</sub> (x = 2, 3, 4) single crystals. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 083505	2.5	19
616	Effect of Mg <sup>2+</sup> co-doping on the scintillation performance of LuAG:Ce ceramics. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2014</b> , 8, 105-109	2.5	114
615	Origin of improved scintillation efficiency in (Lu,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> :Ce multicomponent garnets: An X-ray absorption near edge spectroscopy study. <i>APL Materials</i> , <b>2014</b> , 2, 012101	5.7	31
614	Stabilization of Eu <sup>2+</sup> in KLu <sub>2</sub> S <sub>2</sub> crystalline host: an EPR and optical study. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2014</b> , 08, 801-804	2.5	11
613	UV radiation: a promising tool in the synthesis of multicomponent nano-oxides. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	6
612	Luminescence and Light Yield in Ce <sup>3+</sup> -Doped Y <sub>1</sub> Gd <sub>2</sub> Al <sub>5-x</sub> GaxO <sub>12</sub> (x=2,3,4) Single Crystal Scintillators. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 709, 390-393	0.3	1
611	Photo- and Radioluminescence of Ce <sup>3+</sup> -Doped Dense Oxide Glass. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 709, 350-353	0.3	
610	InGaN/GaN multiple quantum well for fast scintillation application: radioluminescence and photoluminescence study. <i>Nanotechnology</i> , <b>2014</b> , 25, 455501	3.4	19
609	Photothermally stimulated creation of electron and hole centers in Ce <sup>3+</sup> -doped Y <sub>2</sub> SiO <sub>5</sub> single crystals. <i>Optical Materials</i> , <b>2014</b> , 36, 1636-1641	3.3	14
608	Investigation of the luminescence, crystallographic and spatial resolution properties of LSO:Tb scintillating layers used for X-ray imaging applications. <i>Radiation Measurements</i> , <b>2014</b> , 62, 28-34	1.5	9
607	Crystal growth and scintillation properties of selected fluoride crystals for VUV scintillators. <i>Journal of Crystal Growth</i> , <b>2014</b> , 401, 833-838	1.6	1
606	Luminescence of Tb <sup>3+</sup> -doped high silica glass under UV and X-ray excitation. <i>Optical Materials</i> , <b>2013</b> , 35, 426-430	3.3	26
605	Fabrication and scintillation properties of highly transparent Pr:LuAG ceramics using Sc,La-based isovalent sintering aids. <i>Ceramics International</i> , <b>2013</b> , 39, 5985-5990	5.1	15
604	Preparation and luminescent properties of ZnO:Ga(La)/polymer nanocomposite. <i>Radiation Measurements</i> , <b>2013</b> , 56, 102-106	1.5	7
603	Photosensitive bismuth ions in lead tungstate. <i>Physics of the Solid State</i> , <b>2013</b> , 55, 803-806	0.8	6
602	Scintillation characteristics of LiCaAlF <sub>6</sub> -based single crystals under X-ray excitation. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 161907	3.4	15
601	Evaluation of Nd:BaY <sub>2</sub> F <sub>8</sub> for VUV scintillator. <i>Radiation Measurements</i> , <b>2013</b> , 55, 108-111	1.5	6

600	Crystal growth and characterization of calcium metaborate scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2013</b> , 703, 7-10	1.2	2
599	Luminescent properties and energy transfer processes in Ce <sup>3+</sup> /B <sup>3+</sup> doped single crystalline film screens of Lu-based silicate, perovskite and garnet compounds. <i>Radiation Measurements</i> , <b>2013</b> , 56, 415-419	1.5	8
598	Photoluminescence properties of non-stoichiometric strontium zirconate powder phosphor. <i>Optical Materials</i> , <b>2013</b> , 35, 1019-1022	3.3	10
597	Photo-induced low temperature synthesis of nanocrystalline UO <sub>2</sub> , ThO <sub>2</sub> and mixed UO <sub>2</sub> /ThO <sub>2</sub> oxides. <i>Journal of Nuclear Materials</i> , <b>2013</b> , 442, 29-32	3.3	19
596	Preparation and characterization of pure and Pr(III)-doped lead chloride single crystals grown by modified micro-pulling-down method. <i>Journal of Crystal Growth</i> , <b>2013</b> , 375, 57-61	1.6	5
595	Light yield of (Lu, Y, Gd) <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce garnets. <i>Radiation Measurements</i> , <b>2013</b> , 56, 62-65	1.5	19
594	Deep trapping states in cerium doped (Lu,Y,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> single crystal scintillators. <i>Radiation Measurements</i> , <b>2013</b> , 56, 98-101	1.5	37
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591	Luminescent properties of RE <sub>2</sub> O <sub>3</sub> (RE = Lu, Sc, Y) single crystals and ceramics*. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	6
590	Single crystal scintillator plates used for light weight material X-ray radiography. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 425, 192017	0.3	11
589	Photoluminescence and excited state structure in Bi <sup>3+</sup> -doped Y <sub>2</sub> SiO <sub>5</sub> single crystalline films. <i>Radiation Measurements</i> , <b>2013</b> , 56, 90-93	1.5	12
588	Luminescence and scintillation mechanism in Ce <sup>3+</sup> and Pr <sup>3+</sup> doped (Lu,Y,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> single crystal scintillators. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2013</b> , 10, 172-175		36
587	Luminescence and structural properties of RbGdS <sub>2</sub> compounds doped by rare earth elements. <i>Optical Materials</i> , <b>2013</b> , 35, 1226-1229	3.3	24
586	Comparison of absorption, luminescence and scintillation characteristics in Lu <sub>1.95</sub> Y <sub>0.05</sub> SiO <sub>5</sub> :Ce,Ca and Y <sub>2</sub> SiO <sub>5</sub> :Ce scintillators. <i>Optical Materials</i> , <b>2013</b> , 35, 1679-1684	3.3	36
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584	Rare-earth-free luminescent non-stoichiometric phases formed in SrO/Bi <sub>2</sub> O <sub>3</sub> /F <sub>2</sub> ternary compositions. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 580, 468-474	5.7	7
583	Scintillation properties of transparent ceramics for Nd doped (YGd <sub>2</sub> )(Sc <sub>2</sub> Al <sub>2</sub> Ga) <sub>3</sub> O <sub>12</sub> . <i>Optical Materials</i> , <b>2013</b> , 35, 788-792	3.3	7

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581	Luminescence and photo-thermally stimulated defects creation processes in PbWO <sub>4</sub> crystals doped with trivalent rare-earth ions. <i>Journal of Luminescence</i> , <b>2013</b> , 136, 42-50	3.8	10
580	Growth and optical properties of RE-doped ternary rubidium lead chloride single crystals. <i>Optical Materials</i> , <b>2013</b> , 36, 214-220	3.3	9
579	Luminescence and origin of lead-related centers in single crystalline films of Y <sub>2</sub> SiO <sub>5</sub> and Lu <sub>2</sub> SiO <sub>5</sub> . <i>Radiation Measurements</i> , <b>2013</b> , 56, 124-128	1.5	5
578	Quantum tunneling and low temperature delayed recombination in scintillating materials. <i>Chemical Physics Letters</i> , <b>2013</b> , 578, 66-69	2.5	18
577	Paramagnetic defects in manganese-doped lead tungstate. <i>Physics of the Solid State</i> , <b>2013</b> , 55, 116-122	0.8	3
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575	The effect of Ga-doping on the defect chemistry of RE <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> garnets. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 244-248	1.3	26
574	Electron spin resonance of paramagnetic defects and related charge carrier traps in complex oxide scintillators. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 254-260	1.3	15
573	Trapping states and excited state ionization of the Ce <sup>3+</sup> activator in the SrHfO <sub>3</sub> host. <i>Chemical Physics Letters</i> , <b>2013</b> , 556, 89-93	2.5	5
572	Development of LuAG-based scintillator crystals – A review. <i>Progress in Crystal Growth and Characterization of Materials</i> , <b>2013</b> , 59, 47-72	3.5	200
571	Bi <sup>3+</sup> –Ce <sup>3+</sup> energy transfer and luminescent properties of LuAG:Bi,Ce and YAG:Bi,Ce single crystalline films. <i>Journal of Luminescence</i> , <b>2013</b> , 134, 539-543	3.8	11
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569	Optical properties of Eu <sup>2+</sup> -doped KLu <sub>2</sub> S <sub>2</sub> phosphor. <i>Chemical Physics Letters</i> , <b>2013</b> , 574, 61-65	2.5	26
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567	Effect of the Pr <sup>3+</sup> –Gd <sup>3+</sup> energy transfer in multicomponent garnet single crystal scintillators. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 365303	3	14
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565	Scintillation properties of the Ce-doped multicomponent garnet epitaxial films. <i>Optical Materials</i> , <b>2013</b> , 35, 2444-2448	3.3	24

564	Scintillation response of Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Pr <sup>3+</sup> single crystal scintillators. <i>Radiation Measurements</i> , <b>2013</b> , 56, 94-97	1.5	11
563	Czochralski Growth and Properties of Scintillating Crystals. <i>Acta Physica Polonica A</i> , <b>2013</b> , 124, 250-264	0.6	28
562	ESR and TSL study of hole capture in PbWO <sub>4</sub> : Mo,La and PbWO <sub>4</sub> : Mo,Y scintillator crystals. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 075302	3	7
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551	Concentration dependence study of VUV/visible luminescence of Nd <sup>3+</sup> and Gd <sup>3+</sup> in LuLiF <sub>4</sub> . <i>Optical Materials</i> , <b>2012</b> , 34, 1029-1033	3.3	9
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503	Time-resolved spectroscopy of exciton states in single crystals and single crystalline films of YAlO <sub>3</sub> and YAlO <sub>3</sub> :Ce. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 315402	3	23
502	Composition Engineering in Cerium-Doped $(\text{Lu,Gd})_3(\text{Ga,Al})_5\text{O}_{12}$ Single-Crystal Scintillators. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 4484-4490	3.5	388
501	Scintillator-oriented combinatorial search in Ce-doped $(\text{Y,Gd})_3(\text{Ga,Al})_5\text{O}_{12}$ multicomponent garnet compounds. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 505104	3	165
500	Doped Lutetium Silicates Scintillators Prepared by Sol-Gel Method. The Effect of Stoichiometry on Phase Relations and Luminescent Properties. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2011</b> , 18, 102020	0.4	2
499	Band-gap engineering for removing shallow traps in rare-earth $\text{Lu}_3\text{Al}_5\text{O}_{12}$ garnet scintillators using $\text{Ga}^{3+}$ doping. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	241
498	Growth and luminescent properties of $\text{Lu}_2\text{SiO}_5:\text{Ce}$ and $(\text{Lu}_{1-x}\text{Gd}_x)_2\text{SiO}_5:\text{Ce}$ single crystalline films. <i>Journal of Crystal Growth</i> , <b>2011</b> , 337, 72-80	1.6	26
497	Silicate Glass-Based Nanocomposite Scintillators <b>2011</b> ,		1
496	High resolution low energy X-ray microradiography using a CCD camera. <i>Journal of Instrumentation</i> , <b>2011</b> , 6, C01048-C01048	1	9
495	Development of novel UV emitting single crystalline film scintillators. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 289, 012029	0.3	1
494	Luminescence properties and gamma-ray response of the Ce and Ca co-doped $(\text{Gd,Y})_3$ single crystals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 659, 355-360	1.2	4
493	Influence of yttrium content on the CeLu1 and CeLu2 luminescence characteristics in $(\text{Lu}_{1-x}\text{Y}_x)_2\text{SiO}_5:\text{Ce}$ single crystals. <i>Optical Materials</i> , <b>2011</b> , 34, 428-432	3.3	24

492	SrHfO <sub>3</sub> -based phosphors and scintillators. <i>Optical Materials</i> , <b>2011</b> , 34, 433-438	3.3	25
491	Scintillation properties of Pr <sup>3+</sup> -doped lutetium and yttrium aluminum garnets: Comparison with Ce <sup>3+</sup> -doped ones. <i>Optical Materials</i> , <b>2011</b> , 34, 424-427	3.3	7
490	Prompt and delayed recombination mechanisms in Lu <sub>4</sub> Hf <sub>3</sub> O <sub>12</sub> nanophosphors. <i>Optical Materials</i> , <b>2011</b> , 34, 228-233	3.3	9
489	Development of novel rare earth doped fluoride and oxide scintillators for two-dimensional imaging. <i>Journal of Rare Earths</i> , <b>2011</b> , 29, 1178-1182	3.7	4
488	Preparation, luminescence and structural properties of RE-doped RbLa <sub>2</sub> S <sub>2</sub> compounds. <i>Acta Materialia</i> , <b>2011</b> , 59, 6219-6227	8.4	33
487	Luminescence and scintillation of Eu <sup>2+</sup> -doped high silica glass. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2011</b> , 5, 40-42	2.5	20
486	Photochemical preparation of ZnO nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 4529-4537	2.3	16
485	Optical and scintillation properties of Sr <sup>7%</sup> :Ce <sup>15%</sup> :GdF <sub>3</sub> single crystal. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 1175-1178	1.6	1
484	Crystal growth and characterization of (Na <sub>x</sub> Ca <sub>1-x</sub> Lu <sub>x</sub> )F <sub>2</sub> single crystals. <i>Journal of Crystal Growth</i> , <b>2011</b> , 320, 63-68	1.6	2
483	Luminescence and scintillation of Ce <sup>3+</sup> -doped oxide glass with high Gd <sub>2</sub> O <sub>3</sub> concentration. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2011</b> , 208, 2830-2832	1.6	59
482	Electron spin resonance investigation of undoped and Li-doped CdWO <sub>4</sub> scintillator crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 993-996	1.3	2
481	Luminescence of F <sup>+</sup> -type centers in undoped Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> single crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 239-242	1.3	33
480	Time-resolved spectroscopy of exciton-related states in single crystals and single crystalline films of Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> and Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 1505-1512	1.3	10
479	Scintillation properties of (Na <sub>0.425</sub> Lu <sub>0.575-x</sub> Nd <sub>x</sub> )F <sub>2.15</sub> and its comparison with (Ca <sub>1-x</sub> Nd <sub>x</sub> )F <sub>2+x</sub> and NdF <sub>3</sub> . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 136-139		1
478	Acetate/nitrate gel combustion: a strategy for the synthesis of nanosized lutetium hafnate phosphor powders. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 8975		6
477	Europium and Sodium Codoped LiCaAlF <sub>6</sub> Scintillator for Neutron Detection. <i>Applied Physics Express</i> , <b>2011</b> , 4, 106401	2.4	42
476	Substitutional and surface Mn <sup>2+</sup> centers in cubic ZnS:Mn nanocrystals. A correlated EPR and photoluminescence study. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	33
475	Study on the luminescence and energy level of lanthanide ions in Lu <sub>0.8</sub> Sc <sub>0.2</sub> BO <sub>3</sub> host. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 13821-8	2.8	16

474	Hole capture in PbWO <sub>4</sub> :Mo,La(Y) scintillator crystals. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	21
473	Crystal Growth of Na-Co-Doped Ce:LiCaAlF <sub>6</sub> Single Crystals and Their Optical, Scintillation, and Physical Properties. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 4775-4779	3.5	44
472	Time- and wavelength-resolved luminescence evaluation of several types of scintillators using streak camera system equipped with pulsed X-ray source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 634, 59-63	1.2	18
471	Crystal growth and scintillation characteristics of the Nd <sup>3+</sup> doped LiLuF <sub>4</sub> single crystals. <i>Optical Materials</i> , <b>2011</b> , 33, 924-927	3.3	10
470	Growth and luminescent properties of Lu <sub>2</sub> SiO <sub>5</sub> and Lu <sub>2</sub> SiO <sub>5</sub> :Ce single crystalline films. <i>Optical Materials</i> , <b>2011</b> , 33, 846-852	3.3	31
469	Crystal growth and scintillation properties of Nd:CaF <sub>2</sub> . <i>Optical Materials</i> , <b>2011</b> , 33, 284-287	3.3	14
468	Crystal growth and optical properties of the Nd <sup>3+</sup> doped LuF <sub>3</sub> single crystals. <i>Optical Materials</i> , <b>2011</b> , 33, 1143-1146	3.3	16
467	Scintillation properties of Sc-, Pr-, and Ce-doped LuAG epitaxial garnet films. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 545-548	1.6	12
466	Development of modified micro-pulling-down method for bromide and chloride single crystals. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 908-911	1.6	23
465	Crystal growth, Nd distribution and luminescence properties of (Na <sub>0.425</sub> +xLu <sub>0.575</sub> -xNd)F <sub>2</sub> ·1.5x single crystals. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 791-795	1.6	3
464	Crystal growth and luminescence properties of Ti-doped LiAlO <sub>2</sub> for neutron scintillator. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 828-832	1.6	24
463	Growth and emission properties of Sc, Pr, and Ce co-doped Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> epitaxial layers for scintillators. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 813-819	1.6	12
462	Radiation induced synthesis of powder yttrium aluminium garnet. <i>Radiation Physics and Chemistry</i> , <b>2011</b> , 80, 957-962	2.5	11
461	Microstructure, optical, and scintillation characteristics of Pr <sup>3+</sup> doped Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> optical ceramics. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 013522	2.5	34
460	Table-top instrumentation for time-resolved luminescence spectroscopy of solids excited by nanosecond pulse of soft X-ray source and/or UV laser. <i>Journal of Instrumentation</i> , <b>2011</b> , 6, P09007-P09007	1	15
459	<b>2011</b> ,		8
458	Scintillation properties of Ce doped (Lu,Gd) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> single crystal grown by the micro-pulling-down method <b>2011</b> ,		1
457	Thermally-induced ionization of the Ce <sup>3+</sup> and Pb <sup>2+</sup> excited states in the SrHfO <sub>3</sub> microcrystalline phosphor. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2010</b> , 15, 012093	0.4	1

456	VUV-UV-visible luminescence of Nd <sup>3+</sup> , Er <sup>3+</sup> and Tm <sup>3+</sup> and energy distribution in LiLuF <sub>4</sub> single crystal host. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2010</b> , 15, 012089	0.4	
455	Development and Performance Test of Picosecond Pulse X-ray Excited Streak Camera System for Scintillator Characterization. <i>Applied Physics Express</i> , <b>2010</b> , 3, 056202	2.4	50
454	Luminescence and creation of electron centers in UV-irradiated YAlO <sub>3</sub> single crystals. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 053509	2.5	11
453	Crystal Growth and Characterization of Sr <sub>3</sub> Y(BO <sub>3</sub> ) <sub>3</sub> . <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 1264-1267	1.7	7
452	Sol-gel synthesis of cerium-doped yttrium silicates and their luminescent properties. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 229-234	2.5	5
451	Editorial Conference Comments by the Editors. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 1161-1161	1.7	7
450	Scintillation properties of Pr <sup>3+</sup> -doped optical ceramic and single crystals of Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> . <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2010</b> , 15, 012020	0.4	6
449	Ultraviolet luminescence and creation of (WO <sub>4</sub> ) <sub>3</sub> type centers under UV irradiation of PbWO <sub>4</sub> crystals doped with trivalent rare-earth ions. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 249, 012001	0.3	2
448	Growth and luminescent properties of Lu <sub>2</sub> SiO <sub>5</sub> and Lu <sub>2</sub> SiO <sub>5</sub> :Ce single crystalline films. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2010</b> , 15, 012010	0.4	2
447	Growth and properties of epitaxial Ce-doped YAG and LuAG films for scintillators. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 249, 012020	0.3	2
446	. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 1335-1342	1.7	24
445	Crystal Growth and Luminescence Properties of Tm:BaF <sub>2</sub> Single Crystals. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 022601	1.4	21
444	Intrinsic and impurity-induced emission bands in SrHfO <sub>3</sub> . <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	15
443	Crystal Growth and Scintillation Properties of Tm, Nd Codoped LaF <sub>3</sub> Single Crystals. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 1278-1281	1.7	7
442	Luminescence mechanism and energy transfer in doubly-doped BaY <sub>2</sub> F <sub>8</sub> :Tm,Nd VUV scintillator. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2010</b> , 15, 012018	0.4	6
441	Crystal Growth and Characterization of Rare Earth Doped $\text{K}_3\text{LuF}_6$ . <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 1320-1324	1.7	6
440	Growth and scintillation properties of Sc, Pr, Ce co-doped LuAG epitaxial garnet layers. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2010</b> , 15, 012012	0.4	2
439	Single-Crystal Scintillation Materials <b>2010</b> , 1663-1700		17

438	Optical and Structural Properties of Pb and Ce Doped $\{\text{SrHfO}\}_3$ Powders. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 1245-1250	1.7	17
437	Ce Concentration Dependence of Optical and Scintillation Properties for Ce Doped $\{\text{LiYF}\}_4$ Single Crystals. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 1241-1244	1.7	20
436	Luminescence Properties and Their Temperature Dependence of $\{\text{Lu}_2\text{Si}_2\text{O}_7\}\{\text{Ce}\}$ Scintillation Crystals. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 1291-1294	1.7	5
435	Can Pr-Doped YAP Scintillator Perform Better?. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 1168-1174	1.7	15
434	Luminescence Mechanism in Doubly Doped $\{\text{LaF}_3\}\{\text{Er,Nd}\}$ VUV Scintillator. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 1196-1199	1.7	5
433	Tunnelling processes-driven radiative recombination in complex oxide scintillators. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 249, 012018	0.3	11
432	Luminescence and scintillation kinetics of the Pr <sup>3+</sup> doped Lu <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> single crystal. <i>Chemical Physics Letters</i> , <b>2010</b> , 493, 72-75	2.5	30
431	Temperature dependence of luminescence characteristics of Lu <sub>2</sub> (1-x)Y <sub>2x</sub> SiO <sub>5</sub> :Ce <sup>3+</sup> scintillator grown by the Czochralski method. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 033519	2.5	60
430	Air Atmosphere Annealing Effects on LSO:Ce Crystal. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 1272-1277	1.7	32
429	Novel UV-emitting single crystalline film phosphors grown by LPE method. <i>Radiation Measurements</i> , <b>2010</b> , 45, 444-448	1.5	11
428	Luminescence and ESR characteristics of $\gamma$ -irradiated Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce single crystalline film scintillators. <i>Radiation Measurements</i> , <b>2010</b> , 45, 419-421	1.5	9
427	Photoluminescence of Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Bi and Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Bi single crystalline films. <i>Radiation Measurements</i> , <b>2010</b> , 45, 331-335	1.5	27
426	Thin imaging screens based on Ce-doped lutetium-aluminum garnets. <i>Radiation Measurements</i> , <b>2010</b> , 45, 628-630	1.5	6
425	Ce <sup>3+</sup> -doped crystalline garnet films $\beta$ -scintillation characterization using $\beta$ -particle excitation. <i>Radiation Measurements</i> , <b>2010</b> , 45, 369-371	1.5	6
424	Effect of Eu and Pb doping on the dosimetric properties of LiCAF. <i>Radiation Measurements</i> , <b>2010</b> , 45, 556-558	1.5	8
423	VUV-UV-visible luminescence of Nd <sup>3+</sup> , Er <sup>3+</sup> and Tm <sup>3+</sup> in LiLuF <sub>4</sub> single crystal host. <i>Radiation Measurements</i> , <b>2010</b> , 45, 403-405	1.5	8
422	Properties of ZnO nanocrystals prepared by radiation method. <i>Radiation Physics and Chemistry</i> , <b>2010</b> , 79, 27-32	2.5	16
421	Photo- and radiation-induced preparation of nanocrystalline copper and cuprous oxide catalysts. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2010</b> , 286, 611-618	1.5	32

420	Influence of lead-related centers on luminescence of Ce <sup>3+</sup> and Pr <sup>3+</sup> centers in single crystalline films of aluminium perovskites and garnets. <i>Radiation Measurements</i> , <b>2010</b> , 45, 415-418	1.5	19
419	Luminescence and scintillation characteristics of YAG:Ce single crystalline films and single crystals. <i>Radiation Measurements</i> , <b>2010</b> , 45, 389-391	1.5	27
418	Doubly doped BaY <sub>2</sub> F <sub>8</sub> :Er,Nd VUV scintillator. <i>Radiation Measurements</i> , <b>2010</b> , 45, 265-267	1.5	15
417	Growth and luminescent properties of the Ce, Pr doped NaCl single crystals grown by the modified micro-pulling-down method. <i>Radiation Measurements</i> , <b>2010</b> , 45, 472-474	1.5	20
416	Study of VUV emission and F <sub>ray</sub> responses of Nd:BaF <sub>2</sub> scintillaotor. <i>Radiation Measurements</i> , <b>2010</b> , 45, 422-425	1.5	17
415	Relaxation dynamics of electronic excitations in CaWO <sub>4</sub> and CdWO <sub>4</sub> crystals studied by femtosecond interferometry technique. <i>Radiation Measurements</i> , <b>2010</b> , 45, 262-264	1.5	6
414	Defects in Ce-doped LuAG and YAG scintillation layers grown by liquid phase epitaxy. <i>Radiation Measurements</i> , <b>2010</b> , 45, 449-452	1.5	14
413	Photoluminescence of Pb <sup>2+</sup> -doped SrHfO <sub>3</sub> . <i>Radiation Measurements</i> , <b>2010</b> , 45, 406-408	1.5	15
412	Growth and characterization of YAG and LuAG epitaxial films for scintillation applications. <i>Journal of Crystal Growth</i> , <b>2010</b> , 312, 1538-1545	1.6	41
411	Crystal growth and scintillation properties of Ce and Sr co-doped (Gd,Y)F <sub>3</sub> single crystals. <i>Journal of Crystal Growth</i> , <b>2010</b> , 313, 37-41	1.6	4
410	Crystal growth and luminescent properties of Pr-doped K(Y,Lu)F <sub>3</sub> single crystal for scintillator application. <i>Journal of Crystal Growth</i> , <b>2010</b> , 312, 2795-2798	1.6	5
409	Luminescence spectroscopy of the Bi <sup>3+</sup> single and dimer centers in Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Bi single crystalline films. <i>Journal of Luminescence</i> , <b>2010</b> , 130, 1963-1969	3.8	27
408	Study of the Kramers rare earth ions ground multiplet with a large orbital contribution by multifrequency EPR spectroscopy: in scintillator. <i>Optical Materials</i> , <b>2010</b> , 32, 570-575	3.3	11
407	Crystal growth and scintillation properties of NdF <sub>3</sub> single crystal. <i>Optical Materials</i> , <b>2010</b> , 32, 878-881	3.3	9
406	Preparation and luminescence of Lu <sub>4</sub> Hf <sub>3</sub> O <sub>12</sub> powder samples doped by trivalent Eu, Tb, Ce, Pr, Bi ions. <i>Optical Materials</i> , <b>2010</b> , 32, 1372-1374	3.3	10
405	Scintillation properties of LuAG:Ce single crystalline films grown by LPE method. <i>Optical Materials</i> , <b>2010</b> , 32, 1360-1363	3.3	7
404	Defect states in Lu <sub>3</sub> GaxAl <sub>5-x</sub> O <sub>12</sub> crystals and powders. <i>Optical Materials</i> , <b>2010</b> , 32, 1298-1301	3.3	8
403	Optimization of crystals for applications in dual-readout calorimetry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 621, 212-221	1.2	14

402	Crystal growth and scintillation properties of Tm:K <sub>2</sub> NaLuF <sub>6</sub> . <i>Optical Materials</i> , <b>2010</b> , 32, 589-594	3-3	11
401	Crystal growth and scintillation characteristics of the Nd <sup>3+</sup> doped LaF <sub>3</sub> single crystal. <i>Optical Materials</i> , <b>2010</b> , 32, 1142-1145	3-3	19
400	Structure and morphology of scintillating Ce- and Pb-doped strontium hafnate powders. <i>Optical Materials</i> , <b>2010</b> , 32, 1356-1359	3-3	11
399	Nd concentration dependence on the optical and scintillation properties of Nd doped BaF <sub>2</sub> . <i>Optical Materials</i> , <b>2010</b> , 32, 1325-1328	3-3	4
398	Crystal growth and VUV luminescence properties of Er <sup>3+</sup> - and Tm <sup>3+</sup> -doped LiCaAlF <sub>6</sub> for detectors. <i>Optical Materials</i> , <b>2010</b> , 32, 845-849	3-3	28
397	Positron emission mammography using Pr:LuAG scintillator [Fusion of optical material study and systems engineering. <i>Optical Materials</i> , <b>2010</b> , 32, 1294-1297	3-3	41
396	Thermally-induced ionization of the Ce <sup>3+</sup> excited state in SrHfO <sub>3</sub> microcrystalline phosphor. <i>Optical Materials</i> , <b>2010</b> , 33, 149-152	3-3	12
395	Radiation formation of colloidal silver particles in aqueous systems. <i>Applied Radiation and Isotopes</i> , <b>2010</b> , 68, 676-8	1-7	13
394	Photo- and thermally stimulated luminescence of non-stoichiometric undoped PbWO <sub>4</sub> crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 385-392	1-3	6
393	Luminescence spectroscopy of excitons and antisite defects in Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> single crystals and single-crystal films <b>2010</b> , 104, 75		
392	Assignment of 4f <sup>n</sup> d absorption bands in Ce-doped RAlO <sub>3</sub> (R=La, Gd, Y, Lu) perovskites. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	16
391	<b>2009</b> ,		2
390	Study of the ground multiplet of Kramers rare earth ions in solid matrices by multifrequency electron paramagnetic resonance spectroscopy: Nd <sup>3+</sup> in PbWO <sub>4</sub> single-crystals. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 034505	3-9	6
389	Radiation and chemical stability of calix[4]arene derivatives as prospective liquid-liquid extractants. <i>Radiochimica Acta</i> , <b>2009</b> , 97,	1-9	2
388	Peculiarities of excited state structure and photoluminescence in Bi(3+)-doped Lu(3)Al(5)O(12) single-crystalline films. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 415502	1-8	22
387	Dielectric relaxations in undoped, Ce-doped and Ce,Zr-codoped Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> single crystals. <i>Journal of Physics and Chemistry of Solids</i> , <b>2009</b> , 70, 595-599	3-9	7
386	The $\beta$ -particle excited scintillation response of YAG:Ce thin films grown by liquid phase epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 1494-1500	1-6	28
385	The luminescent and scintillation properties of YAlO <sub>3</sub> and YAlO <sub>3</sub> :Ce single crystalline films grown by liquid phase epitaxy from BaO-based flux. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 2586-2592	1-6	21



384	Luminescence of dimer lead centers in aluminium perovskites and garnets. <i>Physica Status Solidi (B): Basic Research</i> , <b>2009</b> , 246, 1318-1326	1.3	32
383	New crystals for dual-readout calorimetry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 604, 512-526	1.2	22
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380	Tunneling recombination luminescence under excitation of PbWO <sub>4</sub> :Mo crystals in the defect-related absorption region. <i>Journal of Luminescence</i> , <b>2009</b> , 129, 767-772	3.8	9
379	Phase transition control, melt growth of (Gd,RE)F <sub>3</sub> single crystal and their luminescent properties. <i>Journal of Luminescence</i> , <b>2009</b> , 129, 1646-1650	3.8	4
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376	Luminescence and decay kinetics of Pb <sup>2+</sup> center in LiCaAlF <sub>6</sub> single crystal host. <i>Optical Materials</i> , <b>2009</b> , 31, 1673-1677	3.3	15
375	Suppression of defect related host luminescence in LuAG single crystals. <i>Physics Procedia</i> , <b>2009</b> , 2, 191-205		12
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371	Pr <sup>3+</sup> -doped complex oxide single crystal scintillators. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 055117		118
370	Trap-center recombination processes by rare earth activators in YAlO <sub>3</sub> single crystal host. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	25
369	Intrinsic trapping and recombination centers in CdWO <sub>4</sub> investigated using thermally stimulated luminescence. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	14
368	Effect of reducing sintering atmosphere on Ce-doped sol-gel silica glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 1140-1144	3.9	43
367	Direct comparison of Yb <sup>3+</sup> :CaF <sub>2</sub> and heavily doped Yb <sup>3+</sup> :YLF as laser media at room temperature. <i>Optics Express</i> , <b>2009</b> , 17, 18312-9	3.3	21

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365	LuAG:Pr, LuAG:La, and LuAP:Ce thin film scintillators for visualisation of x-ray images <b>2009</b> ,		12
364	Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> -based materials for high 2D-resolution scintillation detectors <b>2009</b> ,		15
363	Hole and electron traps in the YAlO <sub>3</sub> single crystal scintillator. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	45
362	Factors affecting the transmission and stability in complex fluorides in VUV spectral region <b>2009</b> ,		1
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360	Single Crystal Growth, Optical Properties and Neutron Response of $\text{Ce}^{3+}$ Doped $\text{LiCaAlF}_6$ . <i>IEEE Transactions on Nuclear Science</i> , <b>2009</b> , 56, 3796-3799	1.7	60
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355	Scintillation Response Comparison Among Ce-Doped Aluminum Garnets, Perovskites and Orthosilicates. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 1142-1147	1.7	15
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352	Scintillator Materials: Achievements, Opportunities, and Puzzles. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 1035-1041	1.7	56
351	Ce-doped YAG and LuAG Epitaxial Films for Scintillation Detectors. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 1201-1205	1.7	42
350	Crystal growth and scintillation property of Nd <sup>3+</sup> -doped LaF <sub>3</sub> single crystal <b>2008</b> ,		2
349	Gd-incorporation and luminescence properties in sol-gel silica glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 3817-3823	3.9	25

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343	Crystal growth, optical properties and neutron responses of Ce <sup>3+</sup> doped LiCaAlF <sub>6</sub> single crystal <b>2008</b> ,		2
342	Shallow Traps in $\text{YAlO}_3$ :Ce Single Crystal Perovskites. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 1114-1117	1.7	19
341	Electron spin resonance study of self-trapped holes in CdWO <sub>4</sub> scintillator crystals. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 103525	2.5	21
340	Complex oxide scintillators: Material defects and scintillation performance. <i>Physica Status Solidi (B): Basic Research</i> , <b>2008</b> , 245, 1701-1722	1.3	155
339	Luminescence of La <sup>3+</sup> and Sc <sup>3+</sup> impurity centers in YAlO <sub>3</sub> single-crystalline films. <i>Journal of Luminescence</i> , <b>2008</b> , 128, 595-602	3.8	9
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337	Scintillating Bulk Oxide Crystals <b>2007</b> , 143-157		3
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332	Paramagnetic impurity defects in LuAG and LuAG: Sc single crystals. <i>Optical Materials</i> , <b>2007</b> , 30, 79-81	3.3	17
331	Luminescence and surface layer defects in PbWO <sub>4</sub> crystals. <i>Optical Materials</i> , <b>2007</b> , 30, 66-68	3.3	6

330	Energy migration in the Ce <sup>3+</sup> -doped Na <sup>+</sup> -doped phosphate glasses. <i>Optical Materials</i> , <b>2007</b> , 30, 113-115	3.3	9
329	Crystal growth and scintillation properties of Pr-doped YAlO <sub>3</sub> . <i>Optical Materials</i> , <b>2007</b> , 30, 171-173	3.3	28
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325	Crystal growth and scintillation properties of Ce-doped PrAlO <sub>3</sub> . <i>Optical Materials</i> , <b>2007</b> , 30, 168-170	3.3	9
324	Temperature dependence of photoluminescence in ZnO-containing glasses. <i>Optical Materials</i> , <b>2007</b> , 30, 91-94	3.3	22
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321	Irregular Ce <sup>3+</sup> and defect-related luminescence in YAlO <sub>3</sub> single crystal. <i>Journal of Luminescence</i> , <b>2007</b> , 124, 273-278	3.8	17
320	Luminescence and scintillation properties of YAG:Ce single crystal and optical ceramics. <i>Journal of Luminescence</i> , <b>2007</b> , 126, 77-80	3.8	149
319	Luminescence characteristics of Pb <sup>2+</sup> centres in undoped and Ce <sup>3+</sup> -doped Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> single-crystalline films and Pb <sup>2+</sup> -Ce <sup>3+</sup> energy transfer processes. <i>Journal of Luminescence</i> , <b>2007</b> , 127, 384-390	3.8	68
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317	Single crystalline film scintillators based on Ce- and Pr-doped aluminium garnets. <i>Radiation Measurements</i> , <b>2007</b> , 42, 521-527	1.5	85
316	Radio-luminescence efficiency and rare-earth dispersion in Tb-doped silica glasses. <i>Radiation Measurements</i> , <b>2007</b> , 42, 784-787	1.5	8
315	Origin of TSL peaks located at 200±50K in UV-irradiated crystals. <i>Radiation Measurements</i> , <b>2007</b> , 42, 807-810	1.5	4
314	Luminescence of ions in single crystalline films. <i>Radiation Measurements</i> , <b>2007</b> , 42, 882-886	1.5	42
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301	Scintillation and optical properties of YAG:Ce films grown by liquid phase epitaxy. <i>Radiation Measurements</i> , <b>2007</b> , 42, 533-536	1.5	39
300	Paramagnetic impurity defects in LuAG:Ce thick film scintillators. <i>Radiation Measurements</i> , <b>2007</b> , 42, 835-838	1.5	44
299	Energy transfer and storage processes in scintillators: The role and nature of defects. <i>Radiation Measurements</i> , <b>2007</b> , 42, 509-514	1.5	22
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295	Radiation damage processes in complex-oxide scintillators <b>2007</b> ,		16

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290	Luminescence characteristics and energy transfer in the mixed YxGd <sub>1-x</sub> F <sub>3</sub> :Ce, Me (Me = Mg, Ca, Sr, Ba) crystals. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 3069-3079	1.8	9
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256	Formation of absorption and emission centres in PbWO <sub>4</sub> surface layers induced by mechanical processing. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 81-84		2
255	Luminescence of undoped LuAG and YAG crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 97-100		109
254	Optical properties of BaY <sub>2</sub> F <sub>8</sub> :Ce <sup>3+</sup> . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 244-247		2
253	Nanocrystalline CsPbBr <sub>3</sub> thin films: a grain boundary opto-electronic study. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 306-309		5
252	Defects in UV-irradiated PbWO <sub>4</sub> : Mo crystals monitored by TSL measurements. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 547-550		8
251	Rare-earth aggregates in sol-gel silica and their influence on optical properties. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 620-623		9
250	Photo- and radioluminescence of Pr-doped Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> single crystal. <i>Physica Status Solidi A</i> , <b>2005</b> , 202, R4-R6		160
249	Exciton-related luminescence in LuAG:Ce single crystals and single crystalline films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, 1113-1119	1.6	40
248	Energy transfer phenomena in the luminescence of wide band-gap scintillators. <i>Physica Status Solidi A</i> , <b>2005</b> , 202, 201-206		99
247	Luminescence and defects creation in Ce <sup>3+</sup> -doped YAlO <sub>3</sub> and Lu <sub>0.3</sub> Y <sub>0.7</sub> AlO <sub>3</sub> crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2005</b> , 242, 1315-1323	1.3	24
246	The antisite LuAl defect-related trap in Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce single crystal. <i>Physica Status Solidi (B): Basic Research</i> , <b>2005</b> , 242, R119-R121	1.3	178
245	Electron capture in PbWO <sub>4</sub> : Mo and PbWO <sub>4</sub> :Mo,La single crystals: ESR and TSL study. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	39
244	Ce <sup>3+</sup> -doped fibers for remote radiation dosimetry. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 6356-6358	3.4	99
243	Growth and charge transfer luminescence of Yb <sup>3+</sup> -doped YAlO <sub>3</sub> single crystals. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 3063-3068	2.5	16
242	Very fast Yb <sup>3+</sup> :YAlO <sub>3</sub> single-crystal scintillators. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 882-884	3.4	21
241	The Red-Shift of Ultraviolet Spectra and the Relation to Optical Basicity of Ce-Doped Alkali Rare-Earth Phosphate Glasses. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 87, 1378-1380	3.8	25



240	Growth and scintillation characteristics of CeF <sub>3</sub> , PrF <sub>3</sub> and NdF <sub>3</sub> single crystals. <i>Journal of Crystal Growth</i> , <b>2004</b> , 264, 208-215	1.6	52
239	Shaped single crystal growth and scintillating application of Yb:(Gd,Lu) <sub>3</sub> (Ga,Al) <sub>5</sub> O <sub>12</sub> solid solutions. <i>Optical Materials</i> , <b>2004</b> , 26, 541-543	3.3	5
238	Growth and scintillation properties of Yb doped aluminate, vanadate and silicate single crystals. <i>Optical Materials</i> , <b>2004</b> , 26, 529-534	3.3	9
237	Charge transfer luminescence in Yb <sup>3+</sup> -containing compounds. <i>Optical Materials</i> , <b>2004</b> , 26, 545-549	3.3	52
236	Growth and luminescent properties of Yb <sup>3+</sup> -doped oxide single crystals for scintillator application. <i>Radiation Measurements</i> , <b>2004</b> , 38, 467-470	1.5	4
235	Red emission of PbWO <sub>4</sub> crystals. <i>Radiation Measurements</i> , <b>2004</b> , 38, 623-626	1.5	17
234	Trap levels in Y-aluminum garnet scintillating crystals. <i>Radiation Measurements</i> , <b>2004</b> , 38, 673-676	1.5	18
233	Recombination luminescence in lead tungstate scintillating crystals. <i>Radiation Measurements</i> , <b>2004</b> , 38, 381-384	1.5	3
232	Photoelectric properties of lead tungstate crystals. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, 3172-3176		2
231	The 3.83 eV luminescence of Gd-enriched phosphate glasses. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, R38-R40		6
230	Energy transfer to the Ce <sup>3+</sup> centers in Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce scintillator. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, R41-R44		41
229	Scintillation characteristics of PrF <sub>3</sub> :Ce single crystal. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, R108-R110		12
228	Luminescence and defects creation in Ce <sup>3+</sup> -doped Lu <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, 1134-1140	1.3	67
227	Coherent phonon oscillations in CsPbCl <sub>3</sub> nanocrystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2004</b> , 1, 2670-2673		3
226	Excited-state dynamics of Yb <sup>2+</sup> in LiCaAlF <sub>6</sub> single crystal. <i>Radiation Measurements</i> , <b>2004</b> , 38, 545-548	1.5	13
225	Photoluminescent properties of nanocrystallized zinc borosilicate glasses. <i>Radiation Measurements</i> , <b>2004</b> , 38, 771-774	1.5	31
224	Radioluminescence spectra of PWO crystals (co)doped by Ba. <i>Radiation Measurements</i> , <b>2004</b> , 38, 363-365	1.5	6
223	Scintillation properties of Yb <sup>3+</sup> -doped garnet crystals. <i>Radiation Measurements</i> , <b>2004</b> , 38, 485-488	1.5	8

222	EPR characterization of Mn <sup>2+</sup> impurity ions in PbWO <sub>4</sub> single crystals. <i>Radiation Measurements</i> , <b>2004</b> , 38, 655-658	1.5	11
221	Radiation damage of doubly doped PbWO <sub>4</sub> :(Mo,A <sup>3+</sup> ) scintillator. <i>Radiation Measurements</i> , <b>2004</b> , 38, 385-388	1.5	8
220	Scintillation properties of the Yb-doped YAlO <sub>3</sub> crystals. <i>Radiation Measurements</i> , <b>2004</b> , 38, 493-496	1.5	7
219	Electron paramagnetic resonance study of copper impurity charge-states in PbWO <sub>4</sub> scintillator. <i>Radiation Measurements</i> , <b>2004</b> , 38, 703-706	1.5	2
218	Electron spin resonance study of Mo <sup>3+</sup> centers in YAlO <sub>3</sub> . <i>Radiation Measurements</i> , <b>2004</b> , 38, 735-738	1.5	16
217	X-ray damage characterization in BaLiF <sub>3</sub> , KMgF <sub>3</sub> and LiCaAlF <sub>6</sub> complex fluorides. <i>Radiation Measurements</i> , <b>2004</b> , 38, 463-466	1.5	16
216	Shaped crystal growth and scintillating properties of Yb:(Gd,Lu) <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> solid solutions. <i>Radiation Measurements</i> , <b>2004</b> , 38, 481-483	1.5	5
215	Decay kinetics of the green emission in tungstates and molybdates. <i>Radiation Measurements</i> , <b>2004</b> , 38, 533-537	1.5	50
214	Thermostimulated recombination processes in LiBaF <sub>3</sub> crystals. <i>Radiation Measurements</i> , <b>2004</b> , 38, 723-726	1.5	4
213	On-line induced absorption measurement on PbWO <sub>4</sub> , YAlO <sub>3</sub> :Ce and CsI scintillating crystals. <i>Radiation Measurements</i> , <b>2004</b> , 38, 393-396	1.5	2
212	Magneto-optical studies of defects and recombination luminescence in LiBaF <sub>3</sub> . <i>Radiation Measurements</i> , <b>2004</b> , 38, 663-666	1.5	7
211	Luminescence of doped lithium tetraborate single crystals and glass. <i>Radiation Measurements</i> , <b>2004</b> , 38, 571-574	1.5	40
210	Scintillation response of Ce-doped or intrinsic scintillating crystals in the range up to 1 MeV. <i>Radiation Measurements</i> , <b>2004</b> , 38, 353-357	1.5	143
209	Crystal growth of Ce: PrF <sub>3</sub> by micro-pulling-down method. <i>Journal of Crystal Growth</i> , <b>2004</b> , 270, 427-432	1.6	121
208	Growth and characterization of Yb <sup>3+</sup> doped garnet crystals for scintillator application. <i>Optical Materials</i> , <b>2004</b> , 26, 535-539	3.3	20
207	Luminescence properties of rare-earth ions in SiO <sub>2</sub> glasses prepared by the sol-gel method. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 345-346, 338-342	3.9	10
206	Electron traps related to oxygen vacancies in PbWO <sub>4</sub> . <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	47
205	The Effect of Co-Doping by Ca <sup>2+</sup> , Ta <sup>5+</sup> , Sn <sup>4+</sup> , and Ru <sup>4+</sup> Ions on the X-Ray Luminescent Properties of Gd <sub>2</sub> O <sub>2</sub> S:Tb <sup>3+</sup> Phosphors. <i>ChemInform</i> , <b>2003</b> , 34, no		1

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203	Crystal growth of Yb <sup>3+</sup> -doped oxide single crystals for scintillator application. <i>Journal of Crystal Growth</i> , <b>2003</b> , 250, 94-99	1.6	21
202	Growth and characterization of 3-in size Tm, Ho-codoped LiYF <sub>4</sub> and LiLuF <sub>4</sub> single crystals by the Czochralski method. <i>Journal of Crystal Growth</i> , <b>2003</b> , 253, 221-229	1.6	17
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200	Growth and characterization of Yb <sup>3+</sup> -doped YAlO <sub>3</sub> fiber single crystals grown by the modified micro-pulling-down method. <i>Journal of Crystal Growth</i> , <b>2003</b> , 256, 298-304	1.6	16
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198	Decay kinetics of the green emission in PbWO <sub>4</sub> :Mo. <i>Journal of Luminescence</i> , <b>2003</b> , 102-103, 618-622	3.8	19
197	Delayed recombination luminescence in lead tungstate (PWO) scintillating crystals. <i>Journal of Luminescence</i> , <b>2003</b> , 102-103, 791-796	3.8	10
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194	Improvement in the quality of LiCaAlF <sub>6</sub> single crystal as window material. <i>Optical Materials</i> , <b>2003</b> , 24, 123-127	3.3	16
193	Luminescence and decay kinetics of Yb <sup>2+</sup> in LiCaAlF <sub>6</sub> single crystal host. <i>Optical Materials</i> , <b>2003</b> , 24, 191-195	3.3	17
192	Growth and optical properties of Yb doped new scintillator crystals. <i>Optical Materials</i> , <b>2003</b> , 24, 275-279	3.3	31
191	Scintillation photoelectron Nphels(E) and light LY(E) yields of YAP:Ce and YAG:Ce crystals. <i>Optical Materials</i> , <b>2003</b> , 24, 281-284	3.3	15
190	Radio-, photo- and thermo-luminescence characterization in Eu <sup>3+</sup> -doped Bi <sub>4</sub> Ge <sub>3</sub> O <sub>12</sub> single crystal for scintillator application. <i>Optical Materials</i> , <b>2003</b> , 24, 285-289	3.3	16
189	Luminescence spectroscopy of the Gd-rich Ce <sup>3+</sup> , Tb <sup>3+</sup> and Mn <sup>2+</sup> -doped phosphate glasses. <i>Physica Status Solidi A</i> , <b>2003</b> , 196, 484-495		22
188	Gamma spectroscopy and optoelectronic imaging with hybrid photon detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2003</b> , 497, 186-197	1.2	8
187	Growth and Characterization of Y-Lu-Gd Aluminium Perovskites <b>2003</b> , 63-74		1

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185	Radiation damage of silicate glasses doped with Tb <sup>3+</sup> and Eu <sup>3+</sup> . <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 315, 271-275	3.9	8
184	Ultraviolet transparency and activator oxidation state of Ce <sup>3+</sup> -doped phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 326-327, 339-342	3.9	24
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182	The Effect of Co-Doping by Ca <sup>2+</sup> , Ta <sup>5+</sup> , Sn <sup>4+</sup> , and Ru <sup>4+</sup> Ions on the X-Ray Luminescent Properties of Gd <sub>2</sub> O <sub>3</sub> :Tb <sup>3+</sup> Phosphors. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, H81	3.9	8
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180	Defect states induced by UV laser irradiation in scintillating glasses. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 191, 366-370	1.2	10
179	On the Interpretation of Luminescence of Lead Halide Crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2002</b> , 229, 1295-1304	1.3	12
178	Defect Creation under UV Irradiation of CsI:Pb Crystals in Pb <sup>2+</sup> -Induced Absorption Bands Investigated by Luminescence Methods. <i>Physica Status Solidi (B): Basic Research</i> , <b>2002</b> , 234, 689-700	1.3	5
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174	Vacuum evaporated CsPbX <sub>3</sub> (X=Cl, Br, I) thin films: optical and transport properties. <i>Materials Science and Engineering C</i> , <b>2002</b> , 19, 63-66	8.3	1
173	Radiation damage induced by $\gamma$ irradiation on Ce <sup>3+</sup> doped phosphate and silicate scintillating glasses. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 476, 785-789	1.2	19
172	{Y <sub>3-x</sub> Ybx}[Ga] <sub>2</sub> (Ga) <sub>3</sub> O <sub>12</sub> and {Lu <sub>2</sub> Yb <sub>1</sub> }[Al] <sub>2</sub> (Al) <sub>3</sub> O <sub>12</sub> single crystals for scintillator application grown by the modified micro-pulling-down method. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 486, 79-82	1.2	30
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169	Optical properties of Ce <sup>3+</sup> -doped sol-gel silicate glasses. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 486, 259-263	1.2	29

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167	Gamma-radiation-induced absorption in doubly doped PbWO <sub>4</sub> :Mo,Y crystals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 486, 345-349	1.2	2
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161	X-ray induced color centres in pure and doped LiYF <sub>4</sub> AND LiLuF <sub>4</sub> single crystals. <i>Radiation Effects and Defects in Solids</i> , <b>2002</b> , 157, 563-567	0.9	8
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158	Temperature dependence of anomalous luminescence decay: Theory and experiment. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	16
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155	Enhanced efficiency of doubly doped PbWO <sub>4</sub> scintillator. <i>Radiation Effects and Defects in Solids</i> , <b>2002</b> , 157, 937-941	0.9	5
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151	Color centers in LiCaAlF <sub>6</sub> single crystals and their suppression by doping. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 5666-5670	2.5	22

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149	Slow relaxation, confinement, and solitons. <i>Physical Review Letters</i> , <b>2002</b> , 88, 224101	7.4	34
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147	Kinetics of induced absorption phenomena in YAlO <sub>3</sub> :Ce scintillator. <i>Radiation Effects and Defects in Solids</i> , <b>2002</b> , 157, 963-968	0.9	1
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142	Excitons in CsPbX <sub>3</sub> (X=Cl, Br, I) ternary nanocrystallites in thin film matrices. <i>Journal of Luminescence</i> , <b>2001</b> , 94-95, 169-172	3.8	12
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139	The doping of PbWO <sub>4</sub> in shaping its scintillator characteristics. <i>Radiation Measurements</i> , <b>2001</b> , 33, 705-708		17
138	Laser induced effects in the optical properties of Tb <sup>3+</sup> -doped phosphate scintillating glasses. <i>Radiation Measurements</i> , <b>2001</b> , 33, 721-723	1.5	5
137	Luminescence of CsPbCl <sub>3</sub> -like Quantum Dots in CsCl : Pb Crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2001</b> , 225, 247-255	1.3	16
136	Relaxed Excited States Origin and Structure in Lead-Doped Caesium Bromide. <i>Physica Status Solidi (B): Basic Research</i> , <b>2001</b> , 223, 745-756	1.3	11
135	Luminescent CsPbI <sub>3</sub> and Cs <sub>4</sub> PbI <sub>6</sub> Aggregates in Annealed CsI:Pb Crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2001</b> , 226, 419-428	1.3	20
134	Scintillation Decay of LiCaAlF <sub>6</sub> :Ce <sup>3+</sup> Single Crystals. <i>Physica Status Solidi A</i> , <b>2001</b> , 187, R1-R3		35
133	Modification of PbWO <sub>4</sub> scintillator characteristics by doping. <i>Journal of Crystal Growth</i> , <b>2001</b> , 229, 312-315	1.5	28

132	Photoinduced Pb <sup>+</sup> center in PbWO <sub>4</sub> : Electron spin resonance and thermally stimulated luminescence study. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	54
131	Behaviour of the lowest excited triplet state of a divalent lead ion. From an isolated impurity to an exciton. <i>Journal of Luminescence</i> , <b>2001</b> , 94-95, 397-401	3.8	2
130	Colour centres induced by irradiation in scintillating glassy matrices for middle and low energy physics experiments. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2001</b> , 185, 294-298	1.2	7
129	Free and localised exciton of ternary nanocrystals in CsX-PbX <sub>2</sub> thin films (X = Cl, Br, I). <i>Radiation Effects and Defects in Solids</i> , <b>2001</b> , 156, 103-107	0.9	7
128	Structured emission of tetrahedral complexes due to Jahn-Teller and pseudo-Jahn-Teller effects. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	26
127	Optical characterization under irradiation of Ce/sup 3+/ (Tb/sup 3+)/-doped phosphate scintillating glasses. <i>IEEE Transactions on Nuclear Science</i> , <b>2001</b> , 48, 360-366	1.7	22
126	Structural and optical properties of ternary CsPbCl nanoaggregates in thin films. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2001</b> , 19, 2237		8
125	Optical Anisotropy of Exciton Band and Doping Effect in Scheelite PbWO <sub>4</sub> Crystals. <i>Journal of the Physical Society of Japan</i> , <b>2001</b> , 70, 1439-1440	1.5	7
124	Luminescent CsPbI <sub>3</sub> and Cs <sub>4</sub> PbI <sub>6</sub> Aggregates in Annealed CsI:Pb Crystals <b>2001</b> , 226, 419		2
123	Visible photoluminescence and electroluminescence in wide-bandgap hydrogenated amorphous silicon. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>2000</b> , 80, 1811-1832		12
122	Luminescence of Cs <sub>4</sub> PbBr <sub>6</sub> Aggregates in As-Grown and in Annealed CsBr:Pb Single Crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2000</b> , 219, 205-214	1.3	10
121	Wide Band Gap Scintillation Materials: Progress in the Technology and Material Understanding. <i>Physica Status Solidi A</i> , <b>2000</b> , 178, 595-620		343
120	Effect of La Doping on Calcium Tungstate (CaWO <sub>4</sub> ) Crystals Radiation Hardness. <i>Physica Status Solidi A</i> , <b>2000</b> , 178, 799-804		12
119	Growth of Lead Tungstate Single Crystals from Gel and Their Luminescence. <i>Physica Status Solidi A</i> , <b>2000</b> , 179, 261-264		16
118	Influence of Gd <sup>3+</sup> Concentration on PbWO <sub>4</sub> :Gd <sup>3+</sup> Scintillation Characteristics. <i>Physica Status Solidi A</i> , <b>2000</b> , 179, 445-454		16
117	Traps and Timing Characteristics of LuAG:Ce <sup>3+</sup> Scintillator. <i>Physica Status Solidi A</i> , <b>2000</b> , 181, R10-R12		180
116	Efficient Medium-Speed PbWO <sub>4</sub> :Mo,Y Scintillator. <i>Physica Status Solidi A</i> , <b>2000</b> , 182, R3-R5		24
115	Ce <sup>3+</sup> or Tb <sup>3+</sup> -doped phosphate and silicate scintillating glasses. <i>Journal of Luminescence</i> , <b>2000</b> , 87-89, 673-675	3.8	82

114	Luminescence of ternary nanoaggregates in CsI/PbI <sub>2</sub> thin films. <i>Journal of Luminescence</i> , <b>2000</b> , 87-89, 372-374	3.8	11
113	Excitonic emission of scheelite tungstates AWO <sub>4</sub> (A=Pb, Ca, Ba, Sr). <i>Journal of Luminescence</i> , <b>2000</b> , 87-89, 1136-1139	3.8	177
112	The growth, structure and optics of CsI/PbI <sub>2</sub> co-evaporated thin films. <i>Thin Solid Films</i> , <b>2000</b> , 373, 195-198.	2.2	9
111	Optical properties of Si <sup>+</sup> -ion implanted sol-gel derived SiO <sub>2</sub> films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 69-70, 564-569	3.1	7
110	Development of new mixed Lu <sub>x</sub> (RE <sub>3+</sub> ) <sub>1-x</sub> AP:Ce scintillators (RE <sub>3+</sub> =Y <sub>3+</sub> or Gd <sub>3+</sub> ): comparison with other Ce-doped or intrinsic scintillating crystals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2000</b> , 443, 331-341	1.2	34
109	The study of time-resolved absorption and luminescence in PbWO <sub>4</sub> crystals. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2000</b> , 166-167, 329-333	1.2	20
108	Tunneling process in thermally stimulated luminescence of mixed Lu <sub>x</sub> Y <sub>1-x</sub> AlO <sub>3</sub> :Ce crystals. <i>Physical Review B</i> , <b>2000</b> , 61, 8081-8086	3.3	62
107	Temperature behaviour of optical properties of Si <sup>+</sup> -implanted SiO <sub>2</sub> . <i>European Physical Journal D</i> , <b>2000</b> , 8, 395-398	1.3	9
106	Influence of Annealing on the Optical Properties of PbWO <sub>4</sub> Single Crystals Grown by the Bridgman Method. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, 5134-5138	1.4	24
105	Efficient radioluminescence of the Ce <sup>3+</sup> -doped Na <sup>+</sup> phosphate glasses. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2159-2161	3.4	102
104	Auger recombination as a probe of the Mott transition in semiconductor nanocrystals. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 2850-2852	3.4	9
103	Influence of doping on the emission and scintillation characteristics of PbWO <sub>4</sub> single crystals. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 4243-4248	2.5	43
102	Photoinduced (WO <sub>4</sub> ) <sub>3</sub> La <sup>3+</sup> center in PbWO <sub>4</sub> : Electron spin resonance and thermally stimulated luminescence study. <i>Physical Review B</i> , <b>2000</b> , 62, 10109-10115	3.3	36
101	Optical and structural properties of ternary nanoaggregates in CsI-PbI <sub>2</sub> co-evaporated thin films. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 1939-1946	1.8	23
100	Wide Band Gap Scintillation Materials: Progress in the Technology and Material Understanding		3
99	Traps and Timing Characteristics of LuAG:Ce <sup>3+</sup> Scintillator		1
98	Shallow traps in PbWO <sub>4</sub> studied by wavelength-resolved thermally stimulated luminescence. <i>Physical Review B</i> , <b>1999</b> , 60, 4653-4658	3.3	50
97	Electrical characterization of PbWO <sub>4</sub> single crystals. <i>Radiation Effects and Defects in Solids</i> , <b>1999</b> , 150, 35-39	0.9	1



96	Thermally stimulated polarization and depolarization phenomena in PbWO <sub>4</sub> single crystals. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 1090-1095	2.5	6
95	Development and characterisation of czochralski grown Lu x RE <sub>3+</sub> 1-x AlO <sub>3</sub> : Ce crystals (Re <sub>3+</sub> = Y <sub>3+</sub> and Gd <sub>3+</sub> ). <i>Radiation Effects and Defects in Solids</i> , <b>1999</b> , 150, 59-63	0.9	4
94	The influence of defect states on scintillation characteristics of PbWO <sub>4</sub> . <i>Radiation Effects and Defects in Solids</i> , <b>1999</b> , 150, 15-19	0.9	14
93	Optical properties of Pb <sup>2+</sup> -based aggregated phases in CsBr Thin film and single crystal matrices. <i>Radiation Effects and Defects in Solids</i> , <b>1999</b> , 150, 341-345	0.9	23
92	Luminescence of CsPbBr <sub>3</sub> -like quantum dots in CsBr single crystals. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>1999</b> , 4, 323-331	3	51
91	Radiation damage processes in wide-gap scintillating crystals. New scintillation materials. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>1999</b> , 78, 471-478		11
90	Scintillation characteristics of nonstoichiometric phases formed in MF <sub>2</sub> ∩dF <sub>3</sub> ∩eF <sub>3</sub> systems Part III. Dense Gd <sub>1-x</sub> MxCeyF <sub>3-x</sub> tysonite-related crystals (M=Ca, Sr). <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1999</b> , 421, 199-210	1.2	1
89	Significant improvement of PbWO <sub>4</sub> scintillating crystals by doping with trivalent ions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1999</b> , 434, 412-423	1.2	69
88	Photoluminescence of Cs <sub>4</sub> PbBr <sub>6</sub> crystals and thin films. <i>Chemical Physics Letters</i> , <b>1999</b> , 306, 280-284	2.5	130
87	Polarized luminescence of CsPbBr <sub>3</sub> nanocrystals (quantum dots) in CsBr:Pb single crystal. <i>Chemical Physics Letters</i> , <b>1999</b> , 314, 31-36	2.5	33
86	Growth of PbX <sub>2</sub> and CsPbX <sub>3</sub> (X = Cl, Br) mesoscopic phases in alkali halide host lattices. <i>Radiation Effects and Defects in Solids</i> , <b>1999</b> , 150, 359-363	0.9	2
85	Luminescence of Pb <sup>2+</sup> -based aggregates in CsI matrix. <i>Radiation Effects and Defects in Solids</i> , <b>1999</b> , 149, 119-123	0.9	5
84	Trapping and emission centres in PbWO <sub>4</sub> and CaWO <sub>4</sub> crystals. <i>Radiation Effects and Defects in Solids</i> , <b>1999</b> , 150, 53-57	0.9	
83	Modelling of the slow emission decay of Pb <sup>2+</sup> , Tl <sup>+</sup> centers. <i>Radiation Effects and Defects in Solids</i> , <b>1999</b> , 149, 149-152	0.9	
82	Energy transfer processes in PbWO <sub>4</sub> luminescence. <i>Chemical Physics Letters</i> , <b>1998</b> , 291, 300-304	2.5	31
81	Investigation of lead tungstate (PbWO <sub>4</sub> ) crystal properties. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>1998</b> , 61, 66-70		17
80	Lead tungstate (PbWO <sub>4</sub> ) scintillators for LHC EM-calorimeter. <i>Radiation Physics and Chemistry</i> , <b>1998</b> , 52, 635-638	2.5	6
79	Photo- and thermally stimulated luminescence and defects in UV-irradiated CsI:Tl and CsI:Pb crystals. <i>Radiation Measurements</i> , <b>1998</b> , 29, 333-335	1.5	13

78	Improvement of several properties of lead tungstate crystals with different doping ions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1998</b> , 402, 75-84	1.2	56
77	Improvement in radiation hardness of PbWO <sub>4</sub> scintillating crystals by La-doping. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1998</b> , 404, 149-156	1.2	54
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75	Cerium-doped RE <sub>3</sub> +AlO <sub>3</sub> perovskite scintillators: Spectroscopy and radiation induced defects. <i>Journal of Alloys and Compounds</i> , <b>1998</b> , 275-277, 200-204	5.7	16
74	Coexistence of the impurity and perturbed exciton levels in the relaxed excited state of CsCl:Pb crystal. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, 5449-5461	1.8	11
73	Anomalous decay of the slow component of Pb <sup>2+</sup> emission. <i>Physical Review B</i> , <b>1998</b> , 58, 6938-6943	3.3	28
72	Polaronic centres in single crystals. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, 7293-7302	1.8	57
71	Radiation induced formation of color centers in PbWO <sub>4</sub> single crystals. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 5758-5762	2.5	130
70	Decay kinetics and thermoluminescence of PbWO <sub>4</sub> : La <sup>3+</sup> . <i>Applied Physics Letters</i> , <b>1997</b> , 71, 3755-3757	3.4	84
69	A study of electron excitations in and single crystals. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 249-256	1.8	75
68	Luminescence and Decay Kinetics of Relaxed Bound Excitons and Impurity States in CsX:Ti <sup>+</sup> (X=Cl, Br, I). <i>Materials Science Forum</i> , <b>1997</b> , 239-241, 213-218	0.4	6
67	Optical and EPR Study of Point Defects in PbWO <sub>4</sub> Single Crystals. <i>Materials Science Forum</i> , <b>1997</b> , 239-241, 271-274	0.4	21
66	Ce <sup>3+</sup> luminescent centers of different symmetries in KMgF <sub>3</sub> single crystals. <i>Physical Review B</i> , <b>1997</b> , 56, 15109-15114	3.3	36
65	Thermally stimulated luminescence of PbWO <sub>4</sub> crystals. <i>Journal of Luminescence</i> , <b>1997</b> , 72-74, 689-690	3.8	11
64	Lead tungstate single crystal scintillators. <i>European Physical Journal D</i> , <b>1997</b> , 47, 717-724		2
63	Improvement in transmittance and decay time of PbWO <sub>4</sub> scintillating crystals by La-doping. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1997</b> , 399, 261-268	1.2	94
62	Spectroscopy and transfer processes in LuGd <sub>1-x</sub> AlO <sub>3</sub> : Ce scintillators. <i>Journal of Luminescence</i> , <b>1997</b> , 72-74, 737-739	3.8	19
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59	The blue luminescence of PbWO <sub>4</sub> single crystals. <i>Journal of Luminescence</i> , <b>1997</b> , 72-74, 781-783	3.8	51
58	Influence of La <sup>3+</sup> -Doping on Radiation Hardness and Thermoluminescence Characteristics of PbWO <sub>4</sub> . <i>Physica Status Solidi A</i> , <b>1997</b> , 160, R5-R6		75
57	Radiation Damage and Thermoluminescence of Gd-Doped PbWO <sub>4</sub> . <i>Physica Status Solidi A</i> , <b>1997</b> , 164, R9-R10		32
56	Luminescence of a thallium-perturbed on-centre self-trapped exciton in CsCl:Tl crystal. <i>Chemical Physics Letters</i> , <b>1997</b> , 268, 280-284	2.5	5
55	Relaxed excited state structure and luminescence of thallium-doped caesium chloride and bromide. <i>Journal of Physics Condensed Matter</i> , <b>1996</b> , 8, 4301-4314	1.8	20
54	Ce doped hafniate scintillating glasses: thermally stimulated luminescence and photoluminescence. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1996</b> , 116, 116-120	1.2	11
53	Lead bromide and ternary alkali lead bromide single crystals: growth and emission properties. <i>Chemical Physics Letters</i> , <b>1996</b> , 258, 518-522	2.5	70
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51	Direct measurements of relaxation time scales in Josephson junctions. <i>Solid State Communications</i> , <b>1996</b> , 97, 439-444	1.6	6
50	Cerium doped heavy metal fluoride glasses, a possible alternative for electromagnetic calorimetry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1996</b> , 380, 524-536	1.2	53
49	Growth of lead tungstate single crystal scintillators. <i>Journal of Crystal Growth</i> , <b>1996</b> , 165, 163-165	1.6	59
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43	Energy Transfer, Fluorescence and Scintillation Processes in Cerium-Doped RE <sub>3</sub> +AlO <sub>3</sub> Fast Scintillators. <i>Acta Physica Polonica A</i> , <b>1996</b> , 90, 45-54	0.6	11

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40	Optical properties of Pb <sup>2+</sup> -based aggregated phase in NaCl and CsCl alkali halide hosts. <i>Radiation Effects and Defects in Solids</i> , <b>1995</b> , 135, 289-293	0.9	7
39	Clustering in NaCl:Pb. <i>Radiation Effects and Defects in Solids</i> , <b>1995</b> , 137, 57-62	0.9	2
38	Decay kinetics of Ce <sup>3+</sup> ions under gamma and KrF excimer laser excitation in CeF <sub>3</sub> single crystals. <i>Journal of Physics Condensed Matter</i> , <b>1995</b> , 7, 6355-6364	1.8	12
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32	GaAs based varicap as tunable capacitance at millikelvin temperatures. <i>Cryogenics</i> , <b>1994</b> , 34, 773-775	1.8	1
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30	A new model for the visible emission of the CsI: Tl crystal. <i>Chemical Physics Letters</i> , <b>1994</b> , 227, 533-538	2.5	58
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21	Luminescence of KI: Pb Crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>1993</b> , 178, 173-184	1.3	5
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14	Decay kinetics of the slow component of Pb <sup>2+</sup> emission in KX (X = Cl, Br, I) crystals. <i>Journal of Luminescence</i> , <b>1992</b> , 54, 189-196	3.8	43
13	Blue and Violet Emission of PbCl <sub>2</sub> . <i>Physica Status Solidi (B): Basic Research</i> , <b>1991</b> , 165, 611-621	1.3	22
12	Kinetics of A-Luminescence in KCl:Tl Multiphonon Processes. <i>Physica Status Solidi (B): Basic Research</i> , <b>1991</b> , 166, 503-510	1.3	33
11	Photoluminescence of RbPb <sub>2</sub> Cl <sub>5</sub> . <i>Physica Status Solidi (B): Basic Research</i> , <b>1991</b> , 166, 511-518	1.3	21
10	Photoluminescence of KPb <sub>2</sub> Cl <sub>5</sub> . <i>Physica Status Solidi (B): Basic Research</i> , <b>1991</b> , 168, K37-K42	1.3	26
9	Green emission band in Ce <sup>3+</sup> -doped yttrium aluminium perovskite. <i>Physica Status Solidi A</i> , <b>1991</b> , 127, K65-K68		24
8	Luminescence Kinetics of PbF <sub>2</sub> Single Crystals. <i>Physica Status Solidi A</i> , <b>1990</b> , 117, K89-K92		16
7	Preparation and emission properties of NaBi(WO <sub>4</sub> ) <sub>2</sub> and NaBi(WO <sub>4</sub> ) <sub>2</sub> :Ce single crystals. <i>Physica Status Solidi A</i> , <b>1990</b> , 118, K133-K137		15

6	Energy transfer in PbCl <sub>2</sub> : Sn <sup>2+</sup> single crystals at low temperatures. <i>Solid State Communications</i> , <b>1989</b> , 69, 45-47	1.6	6
5	Decay Kinetics of UV Luminescence from Undoped PbCl <sub>2</sub> Crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>1988</b> , 145, 741-747	1.3	32
4	Undoped and Tl-Doped Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> Thin Films as Potential X-ray Scintillators. <i>Physica Status Solidi - Rapid Research Letters</i> , 2100422	2.5	2
3	Wide Band Gap Scintillation Materials: Progress in the Technology and Material Understanding		2
2	Advanced Halide Scintillators: From the Bulk to Nano. <i>Advanced Photonics Research</i> , 2200011	1.9	1
1	Highly Resolved X-Ray Imaging Enabled by In(I) Doped Perovskite-Like Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> Single Crystal Scintillator. <i>Advanced Optical Materials</i> , 2200304	8.1	15