Martin Nikl

List of Publications by Citations

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	Scintillation detectors for x-rays. *Measurement Science and Technology*, **2006**, 17, R37-R54	2	577
940	Composition Engineering in Cerium-Doped (Lu,Gd)3(Ga,Al)5O12 Single-Crystal Scintillators. *Crystal Growth and Design*, **2011**, 11, 4484-4490	3.5	388
939	Recent R&D Trends in Inorganic Single-Crystal Scintillator Materials for Radiation Detection. *Advanced Optical Materials*, **2015**, 3, 463-481	8.1	371
938	Wide Band Gap Scintillation Materials: Progress in the Technology and Material Understanding. *Physica Status Solidi A*, **2000**, 178, 595-620		343
937	Band-gap engineering for removing shallow traps in rare-earth Lu3Al5O12 garnet scintillators using Ga3+ doping. *Physical Review B*, **2011**, 84,	3.3	241
936	2inch diameter single crystal growth and scintillation properties of Ce:Gd3Al2Ga3O12. *Journal of Crystal Growth*, **2012**, 352, 88-90	1.6	227
935	Development of LuAG-based scintillator crystals □A review. *Progress in Crystal Growth and Characterization of Materials*, **2013**, 59, 47-72	3.5	200
934	Traps and Timing Characteristics of LuAG:Ce3+ Scintillator. *Physica Status Solidi A*, **2000**, 181, R10-R12		180
933	The antisite LuAl defect-related trap in Lu3Al5O12:Ce single crystal. *Physica Status Solidi (B): Basic Research*, **2005**, 242, R119-R121	1.3	178
932	Needs, Trends, and Advances in Inorganic Scintillators. *IEEE Transactions on Nuclear Science*, **2018**, 65, 1977-1997	1.7	178
931	Excitonic emission of scheelite tungstates AWO4 (A=Pb, Ca, Ba, Sr). *Journal of Luminescence*, **2000**, 87-89, 1136-1139	3.8	177
930	Scintillator-oriented combinatorial search in Ce-doped (Y,Gd)3(Ga,Al)5O12multicomponent garnet compounds. *Journal Physics D: Applied Physics*, **2011**, 44, 505104	3	165
929	Challenge and study for developing of novel single crystalline optical materials using micro-pulling-down method. *Optical Materials*, **2007**, 30, 6-10	3.3	161
928	Photo- and radioluminescence of Pr-doped Lu3Al5O12 single crystal. *Physica Status Solidi A*, **2005**, 202, R4-R6		160
927	Shallow traps and radiative recombination processes in Lu3Al5O12:Ce single crystal scintillator. *Physical Review B*, **2007**, 76,	3.3	157
926	Complex oxide scintillators: Material defects and scintillation performance. *Physica Status Solidi (B): Basic Research*, **2008**, 245, 1701-1722	1.3	155
925	Defect Engineering in Ce-Doped Aluminum Garnet Single Crystal Scintillators. *Crystal Growth and Design*, **2014**, 14, 4827-4833	3.5	154

924	Luminescence and scintillation properties of YAG:Ce single crystal and optical ceramics. *Journal of Luminescence*, **2007**, 126, 77-80	3.8	149
923	Scintillation response of Ce-doped or intrinsic scintillating crystals in the range up to 1MeV. *Radiation Measurements*, **2004**, 38, 353-357	1.5	143
922	Antisite defect-free Lu3(GaxAl1⊠)5O12:Pr scintillator. *Applied Physics Letters*, **2006**, 88, 141916	3.4	133
921	Radiation induced formation of color centers in PbWO4 single crystals. *Journal of Applied Physics*, **1997**, 82, 5758-5762	2.5	130
920	Photoluminescence of Cs4PbBr6 crystals and thin films. *Chemical Physics Letters*, **1999**, 306, 280-284	2.5	130
919	Exciton and antisite defect-related luminescence in Lu3Al5O12 and Y3Al5O12 garnets. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 2180-2189	1.3	129
918	Slow components in the photoluminescence and scintillation decays of PbWO4 single crystals. *Physica Status Solidi (B): Basic Research*, **1996**, 195, 311-323	1.3	128
917	Crystal growth of Ce: PrF3 by micro-pulling-down method. *Journal of Crystal Growth*, **2004**, 270, 427-432	1.6	121
916	Thermally stimulated tunneling in rare-earth-doped oxyorthosilicates. *Physical Review B*, **2008**, 78,	3.3	120
915	Pr3+-doped complex oxide single crystal scintillators. *Journal Physics D: Applied Physics*, **2009**, 42, 055113	3	118
914	Effect of Mg2+ co-doping on the scintillation performance of LuAG:Ce ceramics. *Physica Status Solidi - Rapid Research Letters*, **2014**, 8, 105-109	2.5	114
913	Cz grown 2-in. size Ce:Gd3(Al,Ga)5O12 single crystal; relationship between Al, Ga site occupancy and scintillation properties. *Optical Materials*, **2014**, 36, 1942-1945	3.3	113
912	Growth and scintillation properties of Pr-doped Lu3Al5O12 crystals. *Journal of Crystal Growth*, **2006**, 287, 335-338	1.6	109
911	Luminescence of undoped LuAG and YAG crystals. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2005**, 2, 97-100		109
910	Scintillation characteristics of Pr-doped Lu3Al5O12 single crystals. *Journal of Crystal Growth*, **2006**, 292, 239-242	1.6	107
909	Efficient radioluminescence of the Ce3+-doped Na□d phosphate glasses. *Applied Physics Letters*, **2000**, 77, 2159-2161	3.4	102
908	Temperature Dependence of Scintillation Properties of Bright Oxide Scintillators for Well-Logging. *Japanese Journal of Applied Physics*, **2013**, 52, 076401	1.4	100
907	Ce3+-doped fibers for remote radiation dosimetry. *Applied Physics Letters*, **2004**, 85, 6356-6358	3.4	99

906	Energy transfer phenomena in the luminescence of wide band-gap scintillators. *Physica Status Solidi A*, **2005**, 202, 201-206		99
905	Alkali earth co-doping effects on luminescence and scintillation properties of Ce doped Gd3Al2Ga3O12 scintillator. *Optical Materials*, **2015**, 41, 63-66	3.3	98
904	Improvement in transmittance and decay time of PbWO4 scintillating crystals by La-doping. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1997**, 399, 261-268	1.2	94
903	Ternary alkali lead chlorides: Crystal growth, crystal structure, absorption and emission properties. *Progress in Crystal Growth and Characterization of Materials*, **1995**, 30, 1-22	3.5	90
902	Single crystalline film scintillators based on Ce- and Pr-doped aluminium garnets. *Radiation Measurements*, **2007**, 42, 521-527	1.5	85
901	Optical properties of the Pb2+-based aggregated phase in a CsCl host crystal: Quantum-confinement effects. *Physical Review B*, **1995**, 51, 5192-5199	3.3	85
900	Decay kinetics and thermoluminescence of PbWO4: La3+. *Applied Physics Letters*, **1997**, 71, 3755-3757	3.4	84
899	X-ray Inducible Luminescence and Singlet Oxygen Sensitization by an Octahedral Molybdenum Cluster Compound: A New Class of Nanoscintillators. *Inorganic Chemistry*, **2016**, 55, 803-9	5.1	83
898	Ce3+ or Tb3+-doped phosphate and silicate scintillating glasses. *Journal of Luminescence*, **2000**, 87-89, 673-675	3.8	82
897	Crystal Growth and Scintillation Properties of Ce Doped ${rm Gd}_{3}({rm Ga},{rm Al})_{5}{rm O}_{12}$ Single Crystals. *IEEE Transactions on Nuclear Science*, **2012**, 59, 2112-2115	1.7	79
896	Fast 5d -4f luminescence of Pr3+ in Lu2SiO5 single crystal host. *Chemical Physics Letters*, **2005**, 410, 218-221	2.5	76
895	A study of electron excitations in and single crystals. *Journal of Physics Condensed Matter*, **1997**, 9, 249-256	1.8	75
894	Influence of La3+-Doping on Radiation Hardness and Thermoluminescence Characteristics of PbWO4. *Physica Status Solidi A*, **1997**, 160, R5-R6		75
893	Development of novel scintillator crystals. *Journal of Crystal Growth*, **2006**, 292, 416-421	1.6	73
892	Origin of the 420 nm absorption band in PbWO4single crystals. *Physica Status Solidi (B): Basic Research*, **1996**, 196, K7-K10	1.3	72
891	Effect of Mg 2+ ions co-doping on timing performance and radiation tolerance of Cerium doped Gd 3 Al 2 Ga 3 O 12 crystals. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2016**, 816, 176-183	1.2	71
890	Lead bromide and ternary alkali lead bromide single crystals growth and emission properties. *Chemical Physics Letters*, **1996**, 258, 518-522	2.5	70
889	Significant improvement of PbWO4 scintillating crystals by doping with trivalent ions. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1999**, 434, 412-423	1.2	69

888	Luminescence characteristics of Pb2+ centres in undoped and Ce3+-doped Lu3Al5O12 single-crystalline films and Pb2+-Ce3+ energy transfer processes. *Journal of Luminescence*, **2007**, 127, 384-390	3.8	68
887	Luminescence and defects creation in Ce3+-doped Lu3Al5O12 crystals. *Physica Status Solidi (B): Basic Research*, **2004**, 241, 1134-1140	1.3	67
886	High-efficiency SiO2:Ce3+ glass scintillators. *Applied Physics Letters*, **2002**, 81, 4374-4376	3.4	65
885	Towards Bright and Fast Lu3Al5O12:Ce,Mg Optical Ceramics Scintillators. *Advanced Optical Materials*, **2016**, 4, 731-739	8.1	64
884	Enhanced efficiency of PbWO4:Mo,Nb scintillator. *Journal of Applied Physics*, **2002**, 91, 5041-5044	2.5	62
883	Tunneling process in thermally stimulated luminescence of mixed LuxY1−xAlO3:Ce crystals. *Physical Review B*, **2000**, 61, 8081-8086	3.3	62
882	Development of BSO (Bi4Si3O12) crystal for radiation detector. *Optical Materials*, **2002**, 19, 201-212	3.3	61
881	Single Crystal Growth, Optical Properties and Neutron Response of ${rm Ce}^{3+}$ Doped ${rm LiCaAlF}_{6}$. *IEEE Transactions on Nuclear Science*, **2009**, 56, 3796-3799	1.7	60
880	Temperature dependence of luminescence characteristics of Lu2(1−x)Y2xSiO5:Ce3+ scintillator grown by the Czochralski method. *Journal of Applied Physics*, **2010**, 108, 033519	2.5	60
879	Extensive studies on CeF3 crystals, a good candidate for electromagnetic calorimetry at future accelerators. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1996**, 383, 367-390	1.2	60
878	Luminescence and scintillation of Ce3+-doped oxide glass with high Gd2O3 concentration. *Physica Status Solidi (A) Applications and Materials Science*, **2011**, 208, 2830-2832	1.6	59
877	Growth of lead tungstate single crystal scintillators. *Journal of Crystal Growth*, **1996**, 165, 163-165	1.6	59
876	Scintillation characteristics of Lu3Al5O12:Ce optical ceramics. *Journal of Applied Physics*, **2007**, 101, 033515	2.5	58
875	A new model for the visible emission of the CsI: Tl crystal. *Chemical Physics Letters*, **1994**, 227, 533-538	2.5	58
874	Polaronic centres in single crystals. *Journal of Physics Condensed Matter*, **1998**, 10, 7293-7302	1.8	57
873	Improvement of several properties of lead tungstate crystals with different doping ions. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1998**, 402, 75-84	1.2	56
872	Scintillator Materials—Achievements, Opportunities, and Puzzles. *IEEE Transactions on Nuclear Science*, **2008**, 55, 1035-1041	1.7	56
871	Growth and optical properties of Lu3(Ga,Al)5O12 single crystals for scintillator application. *Journal of Crystal Growth*, **2009**, 311, 908-911	1.6	54

870	Improvement in radiation hardness of PbWO4 scintillating crystals by La-doping. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1998**, 404, 149-156	1.2	54
869	Photoinduced Pb+ center in PbWO4: Electron spin resonance and thermally stimulated luminescence study. *Physical Review B*, **2001**, 64,	3.3	54
868	Cerium doped heavy metal fluoride glasses, a possible alternative for electromagnetic calorimetry. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1996**, 380, 524-536	1.2	53
867	Growth and scintillation characteristics of CeF3, PrF3 and NdF3 single crystals. *Journal of Crystal Growth*, **2004**, 264, 208-215	1.6	52
866	Charge transfer luminescence in Yb3+-containing compounds. *Optical Materials*, **2004**, 26, 545-549	3.3	52
865	The blue luminescence of PbWO4 single crystals. *Journal of Luminescence*, **1997**, 72-74, 781-783	3.8	51
864	Luminescence of CsPbBr3-like quantum dots in CsBr single crystals. *Physica E: Low-Dimensional Systems and Nanostructures*, **1999**, 4, 323-331	3	51
863	Development and Performance Test of Picosecond Pulse X-ray Excited Streak Camera System for Scintillator Characterization. *Applied Physics Express*, **2010**, 3, 056202	2.4	50
862	Peculiarities of luminescence and scintillation properties of YAP:Ce and LuAP:Ce single crystals and single crystalline films. *Radiation Measurements*, **2007**, 42, 528-532	1.5	50
861	Decay kinetics of the green emission in tungstates and molybdates. *Radiation Measurements*, **2004**, 38, 533-537	1.5	50
860	Shallow traps in PbWO4 studied by wavelength-resolved thermally stimulated luminescence. *Physical Review B*, **1999**, 60, 4653-4658	3.3	50
859	Photoluminescence & decay kinetics of Cs4PbCl6 single crystals. *Solid State Communications*, **1992**, 84, 1089-1092	1.6	50
858	Electron traps related to oxygen vacancies in PbWO4. *Physical Review B*, **2003**, 67,	3.3	47
857	Band-Gap and Band-Edge Engineering of Multicomponent Garnet Scintillators from First Principles. *Physical Review Applied*, **2015**, 4,	4.3	46
856	Preparation and luminescence properties of ZnO:Ga - polystyrene composite scintillator. *Optics Express*, **2016**, 24, 15289-98	3.3	46
855	Hole and electron traps in the YAlO3 single crystal scintillator. *Physical Review B*, **2009**, 80,	3.3	45
854	Scintillation and spectroscopic properties of Ce3+-doped YAlO3 and Lux(RE)1−xAlO3(RE=Y3+ and Gd3+) scintillators. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2003**, 498, 312-327	1.2	45
853	Scintillation Properties of Transparent Ceramic Pr:LuAG for Different Pr Concentration. *IEEE Transactions on Nuclear Science*, **2012**, 59, 2146-2151	1.7	44

852	Crystal Growth of Na-Co-Doped Ce:LiCaAlF6 Single Crystals and Their Optical, Scintillation, and Physical Properties. *Crystal Growth and Design*, **2011**, 11, 4775-4779	3.5	44
851	Quantum size effect in the excitonic luminescence of CsPbX3-like quantum dots in CsX (X = Cl, Br) single crystal host. *Journal of Luminescence*, **1997**, 72-74, 377-379	3.8	44
850	Paramagnetic impurity defects in LuAG:Ce thick film scintillators. *Radiation Measurements*, **2007**, 42, 835-838	1.5	44
849	Luminescence and scintillation of Ce3+-doped high silica glass. *Optical Materials*, **2012**, 34, 1762-1766	3.3	43
848	Effect of reducing sintering atmosphere on Ce-doped sol□gel silica glasses. *Journal of Non-Crystalline Solids*, **2009**, 355, 1140-1144	3.9	43
847	Photoluminescence of Bi3+in Y3Ga5O12single-crystal host. *Journal of Physics Condensed Matter*, **2005**, 17, 3367-3375	1.8	43
846	Influence of doping on the emission and scintillation characteristics of PbWO4 single crystals. *Journal of Applied Physics*, **2000**, 87, 4243-4248	2.5	43
845	Decay kinetics of the slow component of Pb2+ emission in KX (X = Cl, Br, I) crystals. *Journal of Luminescence*, **1992**, 54, 189-196	3.8	43
844	Aluminum and Gallium Substitution in Yttrium and Lutetium Aluminum□allium Garnets: Investigation by Single-Crystal NMR and TSL Methods. *Journal of Physical Chemistry C*, **2016**, 120, 24400-24408	3.8	43
843	Gd3+ to Ce3+ energy transfer in multi-component GdLuAG and GdYAG garnet scintillators. *Physica Status Solidi - Rapid Research Letters*, **2013**, 7, 571-574	2.5	42
842	Europium and Sodium Codoped LiCaAlF$_{6}$ Scintillator for Neutron Detection. *Applied Physics Express*, **2011**, 4, 106401	2.4	42
841	La-doped PbWO4 scintillating crystals grown in large ingots. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1998**, 414, 325-331	1.2	42
840	Ce-doped YAG and LuAG Epitaxial Films for Scintillation Detectors. *IEEE Transactions on Nuclear Science*, **2008**, 55, 1201-1205	1.7	42
839	Luminescence of ions in single crystalline films. *Radiation Measurements*, **2007**, 42, 882-886	1.5	42
838	An effect of Zr4+ co-doping of YAP:Ce scintillator. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2002**, 486, 250-253	1.2	42
837	Crystal growth and luminescence properties of Li2B4O7 single crystals doped with Ce, In, Ni, Cu and Ti ions. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2002**, 486, 264-267	1.2	42
836	Growth and characterization of YAG and LuAG epitaxial films for scintillation applications. *Journal of Crystal Growth*, **2010**, 312, 1538-1545	1.6	41
835	Positron emission mammography using Pr:LuAG scintillator □Fusion of optical material study and systems engineering. *Optical Materials*, **2010**, 32, 1294-1297	3.3	41

834	Energy transfer to the Ce3+ centers in Lu3Al5O12:Ce scintillator. *Physica Status Solidi A*, **2004**, 201, R41-R44		41
833	Complete characterization of doubly doped PbWO4:Mo,Y scintillators. *Journal of Applied Physics*, **2002**, 91, 2791-2797	2.5	41
832	Scintillation Properties of ${rm Ce}^{3+}$- and ${rm Pr}^{3+}$-Doped LuAG, YAG and Mixed ${rm Lu}_{rm x}{rm Y}_{1-{rm x}}{rm AG}$ Garnet Crystals. *IEEE Transactions on Nuclear Science*, **2012**, 59, 2120-2125	1.7	40
831	Luminescence of doped lithium tetraborate single crystals and glass. *Radiation Measurements*, **2004**, 38, 571-574	1.5	40
830	Exciton-related luminescence in LuAG:Ce single crystals and single crystalline films. *Physica Status Solidi (A) Applications and Materials Science*, **2005**, 202, 1113-1119	1.6	40
829	Fluorescence and scintillation properties of LuAlO3:Ce crystal. *Chemical Physics Letters*, **1995**, 241, 311-316	2.5	40
828	Scintillation and optical properties of YAG:Ce films grown by liquid phase epitaxy. *Radiation Measurements*, **2007**, 42, 533-536	1.5	39
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826	Electron capture in PbWO4: Mo and PbWO4:Mo,La single crystals: ESR and TSL study. *Physical Review B*, **2005**, 71,	3.3	39
825	Large Size Czochralski Growth and Scintillation Properties of $text{Mg}^{2+}$ Co-doped $text{Ce}:text{Gd}_{3}text{Ga}_{3}text{Al}_{2}text{O}_{12}$. *IEEE Transactions on Nuclear Science*, **2016**, 63, 443-447	1.7	39
824	Deep trapping states in cerium doped (Lu,Y,Gd)3(Ga,Al)5O12 single crystal scintillators. *Radiation Measurements*, **2013**, 56, 98-101	1.5	37
823	Structural and optical properties of Vernier phase lutetium oxyfluorides doped with lanthanide ions: interesting candidates as scintillators and X-ray phosphors. *Journal of Materials Chemistry*, **2012**, 22, 10639		37
822	Photoluminescence and decay kinetics of CsPbCl3 single crystals. *Chemical Physics Letters*, **1994**, 220, 14-18	2.5	37
821	The Harmful Effects of Sintering Aids in Pr:LuAG Optical Ceramic Scintillator. *Journal of the American Ceramic Society*, **2012**, 95, 2130-2132	3.8	36
820	Luminescence and scintillation mechanism in Ce3+ and Pr3+ doped (Lu,Y,Gd)3(Ga,Al)5O12 single crystal scintillators. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2013**, 10, 172-175		36
819	Comparison of absorption, luminescence and scintillation characteristics in Lu1.95Y0.05SiO5:Ce,Ca and Y2SiO5:Ce scintillators. *Optical Materials*, **2013**, 35, 1679-1684	3.3	36
818	Energy migration processes in undoped and Ce-doped multicomponent garnet single crystal scintillators. *Journal of Luminescence*, **2015**, 166, 117-122	3.8	36
817	Ce3+ luminescent centers of different symmetries in KMgF3 single crystals. *Physical Review B*, **1997**, 56, 15109-15114	3.3	36

816	Fabrication of homoepitaxial ZnO films by low-temperature liquid-phase epitaxy. *Journal of Crystal Growth*, **2006**, 287, 367-371	1.6	36
815	Photoinduced (WO4)3□a3+ center in PbWO4: Electron spin resonance and thermally stimulated luminescence study. *Physical Review B*, **2000**, 62, 10109-10115	3.3	36
814	A study of fluorescence emission of Ce3+ ions in YAlO3 crystals by the influence of doping concentration and codoping with Nd3+ and Cr3+. *Materials Chemistry and Physics*, **1992**, 32, 342-348	4.4	36
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812	Composition Tailoring in Ce-Doped Multicomponent Garnet Epitaxial Film Scintillators. *Crystal Growth and Design*, **2015**, 15, 3715-3723	3.5	35
811	Spectroscopy of CsPbBr3 quantum dots in CsBr : Pb crystals. *Journal of Luminescence*, **2001**, 93, 27-41	3.8	35
810	Scintillation Decay of LiCaAlF6:Ce3+ Single Crystals. *Physica Status Solidi A*, **2001**, 187, R1-R3		35
809	Temperature-dependent nonradiative energy transfer from Gd3+ to Ce3+ ions in co-doped LuAG:Ce,Gd garnet scintillators. *Journal of Luminescence*, **2015**, 167, 106-113	3.8	34
808	Octahedral molybdenum clusters as radiosensitizers for X-ray induced photodynamic therapy. *Journal of Materials Chemistry B*, **2018**, 6, 4301-4307	7.3	34
807	Scintillation and luminescent properties of undoped and Ce3+ doped Y2SiO5 and Lu2SiO5 single crystalline films grown by LPE method. *Optical Materials*, **2012**, 34, 1969-1974	3.3	34
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804	Time development of scintillating response in Ce- or Pr-doped crystals. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 996-999		34
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802	A role of Gd3+ in scintillating processes in Tb-doped Na□d phosphate glasses. *Journal of Luminescence*, **2001**, 94-95, 321-324	3.8	34
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800	Development of new mixed Lux(RE3+)1□AP:Ce scintillators (RE3+=Y3+ or Gd3+): comparison with other Ce-doped or intrinsic scintillating crystals. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2000**, 443, 331-341	1.2	34
799	Thermochromic Fluorescence from B18H20(NC5H5)2: An Inorganic□Organic Composite Luminescent Compound with an Unusual Molecular Geometry. *Advanced Optical Materials*, **2017**, 5, 1600694	8.1	33

798	Tetranuclear Copper(I) Iodide Complexes: A New Class of X-ray Phosphors. *Inorganic Chemistry*, **2017**, 56, 4610-4615	5.1	33
797	CsI:Tl+,Yb2+: ultra-high light yield scintillator with reduced afterglow. *CrystEngComm*, **2014**, 16, 3312-3317	3.3	33
796	Optical methods for the evaluation of the thermal ionization barrier of lanthanide excited states in luminescent materials. *Physical Review B*, **2012**, 85,	3.3	33
795	Preparation, luminescence and structural properties of RE-doped RbLaS2 compounds. *Acta Materialia*, **2011**, 59, 6219-6227	8.4	33
794	Luminescence of F+-type centers in undoped Lu3Al5O12 single crystals. *Physica Status Solidi (B): Basic Research*, **2011**, 248, 239-242	1.3	33
793	Substitutional and surface Mn2+ centers in cubic ZnS:Mn nanocrystals. A correlated EPR and photoluminescence study. *Physical Review B*, **2011**, 83,	3.3	33
792	Polarized luminescence of CsPbBr3 nanocrystals (quantum dots) in CsBr:Pb single crystal. *Chemical Physics Letters*, **1999**, 314, 31-36	2.5	33
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789	Thermally induced ionization of 5d1 state of Ce3+ ion in Gd3Ga3Al2O12 host. *Chemical Physics Letters*, **2013**, 574, 56-60	2.5	32
788	Luminescence of dimer lead centers in aluminium perovskites and garnets. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 1318-1326	1.3	32
787	Air Atmosphere Annealing Effects on LSO:Ce Crystal. *IEEE Transactions on Nuclear Science*, **2010**, 57, 1272-1277	1.7	32
786	Photo- and radiation-induced preparation of nanocrystalline copper and cuprous oxide catalysts. *Journal of Radioanalytical and Nuclear Chemistry*, **2010**, 286, 611-618	1.5	32
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