

Petr Prusa

List of Publications by Year in descending order

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31
papers

764
citations

471509
17
h-index

526287
27
g-index

33
all docs

33
docs citations

33
times ranked

487
citing authors

#	ARTICLE	IF	CITATIONS
1	Cz grown 2-in. size Ce:Gd ₃ (Al,Ga) ₅ O ₁₂ single crystal; relationship between Al, Ga site occupancy and scintillation properties. Optical Materials, 2014, 36, 1942-1945.	3.6	151
2	Luminescence and scintillation of Ce ³⁺ -doped high silica glass. Optical Materials, 2012, 34, 1762-1766.	3.6	55
3	Highly Resolved X-ray Imaging Enabled by In(I) Doped Perovskite-like Cs ₃ Cu ₂ Ir ₅ Single Crystal Scintillator. Advanced Optical Materials, 2022, 10, .	7.3	54
4	Composition Tailoring in Ce-Doped Multicomponent Garnet Epitaxial Film Scintillators. Crystal Growth and Design, 2015, 15, 3715-3723.	3.0	41
5	Luminescence and scintillation properties of Mg-codoped LuAG:Pr single crystals annealed in air. Journal of Luminescence, 2017, 181, 277-285.	3.1	37
6	The $\hat{\Gamma}$ -particle excited scintillation response of the liquid phase epitaxy grown LuAG:Ce thin films. Applied Physics Letters, 2008, 92, .	3.3	34
7	The $\hat{\Gamma}$ -particle excited scintillation response of YAG:Ce thin films grown by liquid phase epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1494-1500.	1.8	29
8	Luminescence and scintillation characteristics of YAG:Ce single crystalline films and single crystals. Radiation Measurements, 2010, 45, 389-391.	1.4	29
9	Scintillation properties of the Ce-doped multicomponent garnet epitaxial films. Optical Materials, 2013, 35, 2444-2448.	3.6	29
10	Energy Transfer and Scintillation Properties of Ce^{3+} -Doped $\text{LuY}(\text{Ga},\text{Al})_5\text{O}_{12}$ Single Crystals. IEEE Transactions on Nuclear Science, 2014, 61, 282-289.	2.0	29
11	Growth and luminescent properties of Lu ₂ SiO ₅ :Ce and (Lu _{1-x} Gd _x) ₂ SiO ₅ :Ce single crystalline films. Journal of Crystal Growth, 2011, 337, 72-80.	1.5	26
12	Optical properties of Ce ³⁺ -doped KLu ₂ SiO ₅ phosphor. Journal of Luminescence, 2014, 147, 196-201.	3.1	26
13	Light yield of (Lu, Y, Gd) ₃ Al ₂ Ga ₃ O ₁₂ :Ce garnets. Radiation Measurements, 2013, 56, 62-65.	1.4	24
14	Scintillation properties of Gd ₃ Al ₂ Ga ₃ O ₁₂ :Ce ³⁺ single crystal scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 751, 1-5.	1.6	24
15	Influence of yttrium Content on the Ce ¹ and Ce ² Luminescence Characteristics in $\text{Lu}_{1-x}\text{Y}_x\text{Ga}_3\text{Al}_2\text{O}_{12}$. Journal of Luminescence, 2012, 59, 2079-2084.	2.0	22
16	Garnet Scintillators of Superior Timing Characteristics: Material, Engineering by Liquid Phase Epitaxy. Advanced Optical Materials, 2017, 5, 1600875.	7.3	19
17	Scintillation Response Enhancement in Nanocrystalline Lead Halide Perovskite Thin Films on Scintillating Wafers. Nanomaterials, 2022, 12, 14.	4.1	19
18	First $\hat{\Gamma}$ -atom lifetime and $\hat{\Gamma}$ -scattering length measurements. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 288-294.	4.1	18

#	ARTICLE	IF	CITATIONS
19	Tailoring and Optimization of LuAG:Ce Epitaxial Film Scintillation Properties by Mg Co-Doping. Crystal Growth and Design, 2018, 18, 4998-5007.	3.0	17
20	Scintillation properties of Sc-, Pr-, and Ce-doped LuAG epitaxial garnet films. Journal of Crystal Growth, 2011, 318, 545-548.	1.5	12
21	Effect of Si ⁴⁺ co-doping on luminescence and scintillation properties of Lu ₃ Al ₅ O ₁₂ :Ce,Ca epitaxial garnet films. Optical Materials, 2019, 91, 321-325.	3.6	12
22	First observation of long-lived $\bar{\nu}_e + \bar{\nu}_e$ atoms. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 12-18.	4.1	11
23	Scintillation properties of LuAG:Ce single crystalline films grown by LPE method. Optical Materials, 2010, 32, 1360-1363.	3.6	7
24	Ce ³⁺ -doped crystalline garnet films – scintillation characterization using β -particle excitation. Radiation Measurements, 2010, 45, 369-371.	1.4	6
25	Czochralski Growth and Scintillation Properties of $\text{Lu}_{1-x}\text{Ce}_x\text{Al}_5\text{O}_{12}$ Single Crystals. Journal of Crystal Growth, 2012, 348, 1-10.	0.784314	6
26	2-inch size crystal growth of Ce:Gd ₃ Al ₂ Ga ₃ O ₁₂ with various Ce concentration and their scintillation properties. , 2012, , .		5
27	The use of Pantherpix pixel detector in radiotherapy QA. Physica Medica, 2021, 82, 332-340.	0.7	5
28	Growth of 2-inch size Ce-doped Lu ₂ Gd ₁ Al ₂ Ga ₃ O ₁₂ single crystal by the Czochralski method and their scintillation properties. Journal of Crystal Growth, 2015, 410, 14-17.	1.5	4
29	Energy resolution studies of Ce- and Pr-doped aluminum and multicomponent garnets: The escape and photo-peaks. Journal of Luminescence, 2016, 169, 701-705.	3.1	4
30	Substantial reduction of trapping by Mg co-doping in LuAG:Ce, Mg epitaxial garnet films. Journal of Luminescence, 2021, 238, 118230.	3.1	4
31	Chapter 5 LPE-Grown Thin-Film Scintillators. , 2017, , 155-226.		4