

# Petr Prusa

## List of Publications by Year in descending order

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31  
papers

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citations

471509

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526287

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33  
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docs citations

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times ranked

487  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scintillation Response Enhancement in Nanocrystalline Lead Halide Perovskite Thin Films on Scintillating Wafers. <i>Nanomaterials</i> , 2022, 12, 14.	4.1	19
2	Highly Resolved X-ray Imaging Enabled by In(I) Doped Perovskite-Like Cs <sub>3</sub> Cu <sub>2</sub> Cl <sub>5</sub> Single Crystal Scintillator. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	54
3	The use of Pantherpix pixel detector in radiotherapy QA. <i>Physica Medica</i> , 2021, 82, 332-340.	0.7	5
4	Substantial reduction of trapping by Mg co-doping in LuAG:Ce, Mg epitaxial garnet films. <i>Journal of Luminescence</i> , 2021, 238, 118230.	3.1	4
5	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> , 2019, 91, 321-325.	3.6	12
6	Tailoring and Optimization of LuAG:Ce Epitaxial Film Scintillation Properties by Mg Co-Doping. <i>Crystal Growth and Design</i> , 2018, 18, 4998-5007.	3.0	17
7	Garnet Scintillators of Superior Timing Characteristics: Material, Engineering by Liquid Phase Epitaxy. <i>Advanced Optical Materials</i> , 2017, 5, 1600875.	7.3	19
8	Luminescence and scintillation properties of Mg-codoped LuAG:Pr single crystals annealed in air. <i>Journal of Luminescence</i> , 2017, 181, 277-285.	3.1	37
9	Chapter 5 LPE-Grown Thin-Film Scintillators. , 2017, , 155-226.		4
10	Energy resolution studies of Ce- and Pr-doped aluminum and multicomponent garnets: The escape and photo-peaks. <i>Journal of Luminescence</i> , 2016, 169, 701-705.	3.1	4
11	First observation of long-lived $\bar{\nu}_e + \bar{\nu}_e$ atoms. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 751, 12-18.	4.1	11
12	Composition Tailoring in Ce-Doped Multicomponent Garnet Epitaxial Film Scintillators. <i>Crystal Growth and Design</i> , 2015, 15, 3715-3723.	3.0	41
13	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> , 2015, 410, 14-17.	1.5	4
14	First $\bar{\nu}_e$ atom lifetime and $\bar{\nu}_e$ scattering length measurements. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 735, 288-294.	4.1	18
15	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> , 2014, 751, 1-5.	1.6	24
16	Czochralski Growth and Scintillation Properties of $\text{Ce:}(\text{Lu}, \text{Y}, \text{Gd})_3\text{Al}_2\text{Ga}_3\text{O}_{12}$ Single Crystals. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 282-289.	2.0	29
17	Energy Transfer and Scintillation Properties of $\text{Ce:}(\text{Lu}, \text{Y}, \text{Gd})_3\text{Al}_2\text{Ga}_3\text{O}_{12}$ Single Crystals. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 282-289.	2.0	29
18	Optical properties of Ce <sup>3+</sup> -doped KLu <sub>2</sub> phosphor. <i>Journal of Luminescence</i> , 2014, 147, 196-201.	3.1	26

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19	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> , 2014, 36, 1942-1945.	3.6	151
20	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> , 2013, 56, 62-65.	1.4	24
21	Scintillation properties of the Ce-doped multicomponent garnet epitaxial films. <i>Optical Materials</i> , 2013, 35, 2444-2448.	3.6	29
22	Influence of yttrium Content on the Ce <sup>1</sup> and Ce <sup>2</sup> Luminescence Characteristics in $\text{Lu}_{1-x}\text{Y}_x\text{Gd}_2\text{O}_{12}:\text{Ce}$ . <i>Radiation Measurements</i> , 2012, 59, 2079-2084.	2.0	22
23	Luminescence and scintillation of Ce <sup>3+</sup> -doped high silica glass. <i>Optical Materials</i> , 2012, 34, 1762-1766.	3.6	55
24	2-inch size crystal growth of Ce:Gd <sub>3</sub> (Al,Ga) <sub>5</sub> O <sub>12</sub> with various Ce concentration and their scintillation properties. , 2012, , .		5
25	Growth and luminescent properties of Lu <sub>2</sub> SiO <sub>5</sub> :Ce and (Lu <sub>1-x</sub> Gd <sub>x</sub> ) <sub>2</sub> SiO <sub>5</sub> :Ce single crystalline films. <i>Journal of Crystal Growth</i> , 2011, 337, 72-80.	1.5	26
26	Scintillation properties of Sc-, Pr-, and Ce-doped LuAG epitaxial garnet films. <i>Journal of Crystal Growth</i> , 2011, 318, 545-548.	1.5	12
27	Ce <sup>3+</sup> -doped crystalline garnet films – scintillation characterization using $\hat{\pm}$ -particle excitation. <i>Radiation Measurements</i> , 2010, 45, 369-371.	1.4	6
28	Luminescence and scintillation characteristics of YAG:Ce single crystalline films and single crystals. <i>Radiation Measurements</i> , 2010, 45, 389-391.	1.4	29
29	Scintillation properties of LuAG:Ce single crystalline films grown by LPE method. <i>Optical Materials</i> , 2010, 32, 1360-1363.	3.6	7
30	The $\hat{\pm}$ -particle excited scintillation response of YAG:Ce thin films grown by liquid phase epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1494-1500.	1.8	29
31	The $\hat{\pm}$ -particle excited scintillation response of the liquid phase epitaxy grown LuAG:Ce thin films. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	34