

Petr Schauer

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

485
citations

933447

10
h-index

677142

22
g-index

25
all docs

25
docs citations

25
times ranked

314
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of photon transport efficiency in simple scintillation electron detector configurations for scanning electron microscope. <i>Microscopy Research and Technique</i> , 2022, , .	2.2	2
2	Overview of S(T)EM electron detectors with garnet scintillators: Some potentials and limits. <i>Microscopy Research and Technique</i> , 2021, 84, 753-770.	2.2	6
3	Influence of Mg/Ce Concentration Ratio on Cathodoluminescence in LuAG and LuGAGG Single-Crystalline Films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1801016.	1.8	8
4	Prospective scintillation electron detectors for S(T)EM based on garnet film scintillators. <i>Microscopy Research and Technique</i> , 2019, 82, 272-282.	2.2	4
5	Effect of Mg co-doping on cathodoluminescence properties of LuGAGG:Ce single crystalline garnet films. <i>Optical Materials</i> , 2017, 72, 359-366.	3.6	15
6	Scintillation response of Ce ³⁺ doped GdGa-LuAG multicomponent garnet films under e-beam excitation. <i>Journal of Luminescence</i> , 2016, 169, 674-677.	3.1	18
7	Apparatus for temperature-dependent cathodoluminescence characterization of materials. <i>Measurement Science and Technology</i> , 2014, 25, 075601.	2.6	9
8	Performance of SEM scintillation detector evaluated by modulation transfer function and detective quantum efficiency function. <i>Scanning</i> , 2014, 36, 384-393.	1.5	7
9	Study of spatial resolution of YAG:Ce cathodoluminescent imaging screens. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 308, 68-73.	1.4	8
10	Optimization of decay kinetics of YAG:Ce single crystal scintillators for S(T)EM electron detectors. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 2572-2577.	1.4	11
11	LabVIEW-based control and data acquisition system for cathodoluminescence experiments. <i>Review of Scientific Instruments</i> , 2011, 82, 113109.	1.3	13
12	Conjugated Silicon–Based Polymer Resists for Nanotechnologies: EB and UV Mediated Degradation Processes in Polysilanes. <i>Materials Transactions</i> , 2010, 51, 197-201.	1.2	10
13	Extended Algorithm for Simulation of Light Transport in Single Crystal Scintillation Detectors for S(T)EM. <i>Scanning</i> , 2007, 29, 249-253.	1.5	8
14	Cathodoluminescence as a method for the study of degradation of polysilanes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 252, 303-307.	1.4	5
15	Optimization of Poly-(Methylphenylsilylene) Specimens for Cathodoluminescence Measurement. <i>Microscopy and Microanalysis</i> , 2003, 9, 156-157.	0.4	1
16	Improvement of light collection efficiency of lens-coupled YAG screen TV system for a high-voltage electron microscope. <i>Microscopy Research and Technique</i> , 2000, 49, 596-604.	2.2	9
17	Metastable states in poly(methylphenylsilylene) induced by UV radiation and electron beam. <i>Journal of Non-Crystalline Solids</i> , 1998, 227-230, 669-672.	3.1	7
18	Light transport in single-crystal scintillation detectors in SEM. <i>Scanning</i> , 1992, 14, 325-333.	1.5	12

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19	A single crystal of YALO ₃ : Ce ³⁺ as a fast scintillator in SEM. Scanning, 1983, 5, 91-96.	1.5	64
20	Cathodoluminescent efficiency of Y3Al5O12 and YAlO3 single crystals in dependence on Ce ³⁺ and other dopants concentration. Crystal Research and Technology, 1983, 18, 907-913.	1.3	26
21	Spectral Properties of Oxide Crystals Free of Iron Ions. Crystal Research and Technology, 1982, 17, 885-889.	1.3	0
22	Czochralski growth of YAG:Ce in a reducing protective atmosphere. Journal of Crystal Growth, 1981, 52, 542-545.	1.5	84
23	The luminescence efficiency of YAG: Ce phosphors. European Physical Journal D, 1980, 30, 185-192.	0.4	15
24	A single crystal of YAG-new fast scintillator in SEM. Journal of Physics E: Scientific Instruments, 1978, 11, 707-708.	0.7	142