

John McClory

List of Publications by Year in descending order

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all docs

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docs citations

40
times ranked

462
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling a Lossy Dielectric Polymer-based Thermoacoustic High Power Microwave Directed Energy Exposure Detection System. Health Physics, 2022, 122, 673-684.	0.3	3
2	Particle-in-cell simulations of ion dynamics in a pinched-beam diode. Physics of Plasmas, 2022, 29, .	0.7	1
3	Development of a neutron spectrometer utilizing rubberized Eu:LiCAF wafers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161685.	0.7	0
4	Comparison of SiPM and PMT Performance Using a $\text{Cs}_2\text{LiYCl}_6:\text{Ce}^{3+}$ (CLYC) Scintillator With Two Optical Windows. IEEE Transactions on Nuclear Science, 2019, 66, 1959-1965.	1.2	8
5	Gamma-ray radiation effects in graphene-based transistors with h-BN nanometer film substrates. Applied Physics Letters, 2019, 115, .	1.5	9
6	The Debye Temperature of a Single Crystal Thorium-Uranium Dioxide Alloy. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800436.	1.2	0
7	Evaluation of Eu:LiCAF for neutron detection utilizing SiPMs and portable electronics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 908, 110-116.	0.7	3
8	Identification of the zinc-oxygen divacancy in ZnO crystals. Journal of Applied Physics, 2016, 119, .	1.1	18
9	Oxygen vacancies in LiAlO ₂ crystals. Physical Review B, 2015, 92, .	1.1	11
10	Analysis of oxygen shell splitting in hydrothermally grown single crystal ThO ₂ (200). Physica Status Solidi - Rapid Research Letters, 2015, 9, 668-672.	1.2	4
11	Two-dimensional temperature analysis of nuclear fireballs using digitized film. Journal of Applied Remote Sensing, 2015, 9, 095096.	0.6	0
12	Novel Bonner Sphere Spectrometer Response Functions Using MCNP6. IEEE Transactions on Nuclear Science, 2015, 62, 1689-1694.	1.2	9
13	Rare earth dopant (Nd, Gd, Dy, and Er) hybridization in lithium tetraborate. Frontiers in Physics, 2014, 2, .	1.0	15
14	3D sparse point reconstructions of atmospheric nuclear detonations. , 2014, , .		1
15	Physical modeling of nuclear detonations in DIRSIG. , 2014, , .		0
16	Effects of Proton and X-ray Irradiation on Graphene Field-Effect Transistors with Thin Gate Dielectrics. IEEE Transactions on Nuclear Science, 2014, 61, 3010-3017.	1.2	10
17	Hydrothermal phase stability study of Li ₂ B ₄ O ₇ . Journal of Solid State Chemistry, 2014, 216, 79-84.	1.4	0
18	The unoccupied electronic structure characterization of hydrothermally grown ThO ₂ single crystals. Physica Status Solidi - Rapid Research Letters, 2014, 8, 283-286.	1.2	20

#	ARTICLE	IF	CITATIONS
19	Copper doping of ZnO crystals by transmutation of ^{64}Zn to ^{65}Cu : An electron paramagnetic resonance and gamma spectroscopy study. Journal of Applied Physics, 2014, 115, 243706.	1.1	4
20	Characterization of Radiation Damage in Carbon Nanotube Field-Effect Transistors. IEEE Transactions on Nuclear Science, 2013, 60, 4087-4093.	1.2	13
21	EXAFS and EPR analysis of the local structure of Mn-doped $\text{Li}_2\text{B}_4\text{O}_7$. Physica Status Solidi (B): Basic Research, 2013, 250, 1376-1383.	0.7	14
22	The Debye Temperature for Hydrothermally Grown ThO_2 Single Crystals. Materials Research Society Symposia Proceedings, 2013, 1576, 1.	0.1	6
23	Reversible Mn segregation at the polar surface of lithium tetraborate. Applied Physics Letters, 2013, 102, 161602.	1.5	8
24	Rare earth 4f hybridization with the GaN valence band. Semiconductor Science and Technology, 2012, 27, 115017.	1.0	22
25	Electromagnetic Interference and Ionizing Radiation Effects on CMOS Devices. IEEE Transactions on Plasma Science, 2012, 40, 1495-1501.	0.6	14
26	The local metallicity of gadolinium doped compound semiconductors. Journal of Physics Condensed Matter, 2012, 24, 445801.	0.7	5
27	Design optimization of a layered boron based solid state neutron spectrometer. , 2011, , .		3
28	Radiation effects on YAG:Ce scintillating fiber. , 2011, , .		0
29	Electron and hole traps in Ag-doped lithium tetraborate ($\text{Li}_2\text{B}_4\text{O}_7$) crystals. Journal of Applied Physics, 2011, 110, .	1.1	35
30	Analysis of neutron induced defects in silver doped lithium tetraborate. , 2011, , .		0
31	Performance evaluation of neutron detectors incorporating intrinsic Gd using a GEANT4 modeling approach. Materials Research Society Symposia Proceedings, 2011, 1341, 1.	0.1	3
32	Photoemission and Cathodoluminescence of Doped Lithium Tetraborate Crystals Being Developed for Neutron Detection. Materials Research Society Symposia Proceedings, 2011, 1341, 1.	0.1	0
33	The Electronic Structure and Secondary Pyroelectric Properties of Lithium Tetraborate. Materials, 2010, 3, 4550-4579.	1.3	24
34	The K-shell Auger electron spectrum of gadolinium obtained using neutron capture in a solid state device. Journal Physics D: Applied Physics, 2010, 43, 075502.	1.3	13
35	Identification of electron and hole traps in lithium tetraborate ($\text{Li}_2\text{B}_4\text{O}_7$) crystals: Oxygen vacancies and lithium vacancies. Journal of Applied Physics, 2010, 107, .	1.1	51
36	A Single Chip Computational Sensor System for Neutron Detection Applications. IEEE Sensors Journal, 2010, 10, 1226-1233.	2.4	8

#	ARTICLE	IF	CITATIONS
37	The Effects of Temperature and Electron Radiation on the Electrical Properties of AlGaN/GaN HFETs. IEEE Transactions on Nuclear Science, 2009, 56, 3223-3228.	1.2	15
38	Trap Assisted Tunneling Induced Currents in Neutron Irradiated AlGaN/GaN HFETs. IEEE Transactions on Nuclear Science, 2009, 56, 2905-2909.	1.2	18
39	An Analysis of the Effects of Low-Energy Electron Irradiation of AlGaN/GaN HFETs. IEEE Transactions on Nuclear Science, 2007, 54, 1946-1952.	1.2	18
40	Temperature Dependent Electrical Characteristics of Neutron Irradiated AlGaN/GaN HFETs. IEEE Transactions on Nuclear Science, 2007, 54, 1969-1974.	1.2	18