

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84 papers	6,337 citations	19 h-index	79 g-index
96 ext. papers	7,419 ext. citations	4.9 avg, IF	5.86 L-index

#	Paper	IF	Citations
84	Solar cells. Electron-hole diffusion lengths > 175 nm in solution-grown CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> single crystals. <i>Science</i> , <b>2015</b> , 347, 967-70	33.3	3708
83	Sensitive X-ray detectors made of methylammonium lead tribromide perovskite single crystals. <i>Nature Photonics</i> , <b>2016</b> , 10, 333-339	33.9	894
82	Monolithic integration of hybrid perovskite single crystals with heterogenous substrate for highly sensitive X-ray imaging. <i>Nature Photonics</i> , <b>2017</b> , 11, 315-321	33.9	393
81	Dopant compensation in alloyed CH <sub>3</sub> NH <sub>3</sub> PbBrCl perovskite single crystals for gamma-ray spectroscopy. <i>Nature Materials</i> , <b>2017</b> , 16, 826-833	27	343
80	Optical signatures of deep level defects in Ga <sub>2</sub> O <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2018</b> , 112, 242102	3.4	82
79	Neutron depth profiling technique for studying aging in Li-ion batteries. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 4735-4743	6.7	61
78	In situ quantification and visualization of lithium transport with neutrons. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 9498-502	16.4	59
77	Organohalide Lead Perovskites: More Stable than Glass under Gamma-Ray Radiation. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805547	24	51
76	Detection of charged particles with a methylammonium lead tribromide perovskite single crystal. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2017</b> , 848, 106-108	1.2	49
75	Enhanced binding of metabotropic glutamate receptor type 5 (mGluR5) PET tracers in the brain of parkinsonian primates. <i>NeuroImage</i> , <b>2008</b> , 42, 248-51	7.9	49
74	Review of using gallium nitride for ionizing radiation detection. <i>Applied Physics Reviews</i> , <b>2015</b> , 2, 031102	17.3	45
73	Preliminary study of airborne particulate matter in a Beijing sampling station by instrumental neutron activation analysis. <i>Atmospheric Environment</i> , <b>2002</b> , 36, 1951-1956	5.3	41
72	Cerebellar neurons possess a vesicular compartment structurally and functionally similar to Glut4-storage vesicles from peripheral insulin-sensitive tissues. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 5193-201	6.6	40
71	Performance of Perovskite CsPbBr <sub>3</sub> Single Crystal Detector for Gamma-Ray Detection. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 443-449	1.7	26
70	Evaluation of freestanding GaN as an alpha and neutron detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2013</b> , 719, 13-16	1.2	24
69	Profiling lithium distribution in Sn anode for lithium-ion batteries with neutrons. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2014</b> , 301, 277-284	1.5	20
68	Low defects density CsPbBr <sub>3</sub> single crystals grown by an additive assisted method for gamma-ray detection. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 11360-11368	7.1	20

67	Determination of X-ray detection limit and applications in perovskite X-ray detectors. <i>Nature Communications</i> , <b>2021</b> , 12, 5258	17.4	20
66	Demonstration of Large-Size Vertical Ga <sub>2</sub> O <sub>3</sub> Schottky Barrier Diodes. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 41-44	7.2	19
65	Neutron depth profiling of Li-ion cell electrodes with a gas-controlled environment. <i>Journal of Power Sources</i> , <b>2014</b> , 248, 489-497	8.9	18
64	Characterization of a new external neutron beam facility at the Ohio State University. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2012</b> , 291, 321-327	1.5	18
63	Neutron irradiation effects on gallium nitride-based Schottky diodes. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 162106	3.4	18
62	Bulk GaN alpha-particle detector with large depletion region and improved energy resolution. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2017</b> , 849, 11-15	1.2	16
61	The effect of boron doping and gamma irradiation on the structure and properties of microwave chemical vapor deposited boron-doped diamond films. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 1498-1512	2.5	15
60	Comparison of Zr, Bi, Ti, and Ga as Metal Contacts in Inorganic Perovskite CsPbBr <sub>3</sub> Gamma-Ray Detector. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 2255-2262	1.7	15
59	Neutron irradiation effects on metal-gallium nitride contacts. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 123705	0.5	14
58	Demonstrating the Feasibility of Al as Anode Current Collector in Li-Ion Batteries via In Situ Neutron Depth Profiling. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 556-563	9.6	13
57	Radiation effects on the electrode and electrolyte of a lithium-ion battery. <i>Journal of Power Sources</i> , <b>2016</b> , 318, 242-250	8.9	13
56	Metrological role of neutron activation analysis. IA. Inherent characteristics of relative INAA as a primary ratio method of measurement. <i>Accreditation and Quality Assurance</i> , <b>2001</b> , 6, 488-492	0.7	12
55	Quasi-2D perovskite crystalline layers for printable direct conversion X-ray imaging.. <i>Advanced Materials</i> , <b>2022</b> , e2106498	24	12
54	Effects of neutron and gamma radiation on lithium-ion batteries. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 345, 27-32	1.2	11
53	Noise evaluation of a digital neutron imaging device. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2012</b> , 674, 46-50	1.2	10
52	Study of PM <sub>2.5</sub> in Beijing suburban site by neutron activation analysis and source apportionment. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2004</b> , 261, 87-94	1.5	10
51	An analysis of radiation effects on NdFeB permanent magnets. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 342, 200-205	1.2	9
50	Evaluation of polyvinyl toluene scintillators for fast neutron imaging. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2018</b> , 318, 543-551	1.5	9

49	Characterization of a boron carbide-based polymer neutron sensor. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2015</b> , 803, 82-88	1.2	9
48	Ab initio study of radiation effects on the Li4Ti5O12 electrode used in lithium-ion batteries. <i>AIP Advances</i> , <b>2015</b> , 5, 047110	1.5	8
47	Study of GaN Radiation Sensor After In-core Neutron Irradiation. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 2040-2044	1.7	8
46	Radiochemical neutron-activation analysis of uncertified ultra-trace rare earth elements in two biological certified reference materials. <i>Analytical and Bioanalytical Chemistry</i> , <b>2002</b> , 372, 397-400	4.4	8
45	Methods for improving the power conversion efficiency of nuclear-voltaic batteries. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2019</b> , 927, 133-139	1.2	8
44	Transient current analysis of a GaN radiation detector by TCAD. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 761, 7-12	1.2	7
43	Observation of phase transitions in hydrogenated Yttrium films via normalized infrared emissivity. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 490, 42-46	5.7	7
42	Performance of 5-Bn PIN diamond diodes as thermal neutron detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2020</b> , 961, 163601	1.2	6
41	In Situ Quantification and Visualization of Lithium Transport with Neutrons. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 9652-9656	3.6	6
40	Cold-neutron depth profiling as a research tool for the study of surface oxides on metalsSpecial Issue on Neutron Scattering in Canada.. <i>Canadian Journal of Physics</i> , <b>2010</b> , 88, 751-758	1.1	6
39	Neutron irradiation and forming gas anneal impact on EGa2O3 deep level defects. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 465102	3	6
38	A Low-cost Neutron Radiography Device. <i>Physics Procedia</i> , <b>2013</b> , 43, 54-65		5
37	The effect of thermal reactor neutron irradiation on semi-insulating GaN. <i>Radiation Effects and Defects in Solids</i> , <b>2013</b> , 168, 924-932	0.9	5
36	Gamma-ray rejection, or detection, with gadolinium as a converter. <i>Radiation Protection Dosimetry</i> , <b>2012</b> , 151, 586-90	0.9	5
35	Combinatorial study of thin film metal hydride by prompt gamma activation analysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2010</b> , 283, 63-68	1.5	5
34	Metrological role of neutron activation analysis. II. Parametric INAA An ideal back-up for INAA as a primary ratio method of measurement. <i>Accreditation and Quality Assurance</i> , <b>2002</b> , 7, 50-54	0.7	5
33	Quantifying spatial resolution in a fast neutron radiography system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2022</b> , 1027, 166331	1.2	5
32	Gamma radiation effects on Li-ion battery electrolyte in neutron depth profiling for lithium quantification. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2015</b> , 305, 675-680	1.5	4

31	Thermal and radiation response of 4H-SiC Schottky diodes with direct-write electrical contacts. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 252108	3.4	4
30	Field Mapping System Design for the Superconducting Cyclotron CYCIAE-230. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-4	1.8	4
29	Characterization of magnetic degradation mechanism in a high-neutron-flux environment. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 334, 43-47	1.2	4
28	A review of low-level ionizing radiation and risk models of leukemia. <i>Journal of Radiation Oncology</i> , <b>2013</b> , 2, 263-270	0.7	4
27	A radioactive tracer dilution method to determine the mass of molten salt. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2017</b> , 314, 387-393	1.5	4
26	Metrological role of neutron activation analysis. III. Role of INAA in sampling behavior characterization. <i>Accreditation and Quality Assurance</i> , <b>2002</b> , 7, 101-105	0.7	4
25	Heteroepitaxial diamond growth on 4H-SiC using microwave plasma chemical vapor deposition. <i>Heliyon</i> , <b>2017</b> , 3, e00404	3.6	3
24	Isotopic concentration of uranium from alpha spectrum of electrodeposited source on 4H-SiC detector at 500 °C. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2019</b> , 320, 441-449	1.5	3
23	Monte Carlo study of radiation-induced demagnetization using the two-dimensional Ising model. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 360, 111-117	1.2	3
22	Direct printing of metal contacts on 4H-SiC for radiation detection. <i>AIP Advances</i> , <b>2019</b> , 9, 095041	1.5	3
21	Neutron conversion efficiency and gamma interference with gadolinium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2014</b> , 300, 953-961	1.5	3
20	The Potential of Using Li-Ion Batteries for Radiation Detection. <i>IEEE Transactions on Nuclear Science</i> , <b>2013</b> , 60, 662-667	1.7	3
19	Determination of the thickness of an electrodeposited thorium film with SiC alpha detectors. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2017</b> , 311, 1127-1133	1.5	3
18	Scintillators and detectors for MeV X-ray and neutron imaging <b>2020</b> ,		3
17	4H-SiC alpha spectrometry for nuclear forensics with electrodeposited sources. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2018</b> , 318, 667-672	1.5	3
16	Design, Construction, Installation, Mapping, and Shimming for a 416-ton Compact Cyclotron Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 1-1	1.8	2
15	Silicon carbide detectors for high flux neutron monitoring at near-core locations. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2020</b> , 953, 163110	1.2	2
14	Direct metal contacts printing on 4H-SiC for alpha detectors and inhomogeneous Schottky barriers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2021</b> , 989, 164961	1.2	2

13	Ex-situ and in-situ observations of the effects of gamma radiation on lithium ion battery performance. <i>Journal of Power Sources</i> , <b>2017</b> , 357, 19-25	8.9	1
12	<b>2014</b> ,		1
11	Study of GaN radiation sensor after in-core neutron irradiation <b>2013</b> ,		1
10	Determination of molten salt mass using <sup>22</sup> Na tracer mixed with <sup>154</sup> Eu and <sup>137</sup> Cs. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2018</b> , 318, 457-463	1.5	1
9	Depth-resolved cathodoluminescence and surface photovoltage spectroscopies of gallium vacancies in Ga <sub>2</sub> O <sub>3</sub> with neutron irradiation and forming gas anneals. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2021</b> , 39, 052205	1.3	1
8	Large area vertical Ga <sub>2</sub> O <sub>3</sub> Schottky diodes for X-ray detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2021</b> , 1013, 165664	1.2	1
7	Study on radiation induced performance degradation of BLDC motor in robot servo systems. <i>International Journal of Mechatronics and Automation</i> , <b>2015</b> , 5, 154	0.2	0
6	Inorganic Perovskite CsPbBr <sub>3</sub> Gamma-Ray Detector <b>2022</b> , 33-54		0
5	Magnetic Field Measurement, Shimming and Processing for 230 MeV Superconducting Cyclotron Main Magnet. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2020</b> , 30, 1-5	1.8	
4	Fabrication and characterization of an irradiation facility for large-sample geometry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2013</b> , 296, 83-88	1.5	
3	Testing of harmonic drive degrading under radiation environment. <i>International Journal of Mechatronics and Automation</i> , <b>2015</b> , 5, 69	0.2	
2	Acquiring and Modeling of Si Solar-Cell Transient Response to Pulsed X-Ray. <i>IEEE Transactions on Nuclear Science</i> , <b>2021</b> , 68, 1152-1160	1.7	
1	Isotope production by the high current proton beam of CYCIAE-100. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2020</b> , 463, 119-122	1.2	