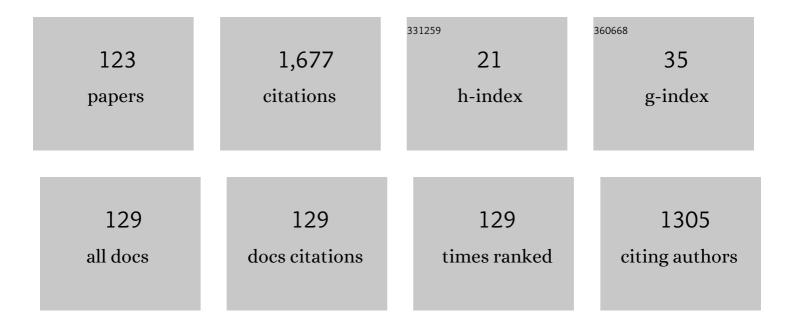
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3722933/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Climate Change Effects on Thermal Power Generation and Projected Losses in Generation and Income in the U.S. for the Period 2020–2050. , 2021, , .		2
2	Total Ionizing Dose Effects on Multistate HfOâ,"-Based RRAM Synaptic Array. IEEE Transactions on Nuclear Science, 2021, 68, 756-761.	1.2	6
3	Evidence of Interface Trap Build-Up in Irradiated 14-nm Bulk FinFET Technologies. IEEE Transactions on Nuclear Science, 2021, 68, 671-676.	1.2	4
4	Solar Energy Calculations. , 2021, , 181-200.		0
5	Solar Thermal Electric Power Plants. , 2021, , 157-179.		Ο
6	A Study of the Minimum Thermal Power of a Nuclear Reactor. Journal of Nuclear Engineering, 2021, 2, 412-421.	0.7	0
7	Climate Change Effects on Solar, Wind and Hydro Power Generation. , 2019, , .		2
8	Effects of sterilization techniques on chemodenitrification and N <sub>2</sub> O production in tropical peat soil microcosms. Biogeosciences, 2019, 16, 4601-4612.	1.3	19
9	Failure Thresholds in CBRAM Due to Total Ionizing Dose and Displacement Damage Effects. IEEE Transactions on Nuclear Science, 2019, 66, 69-76.	1.2	2
10	Reliable techniques for integrated circuit identification and true random number generation using 1.5-transistor flash memory. The Integration VLSI Journal, 2019, 65, 263-272.	1.3	3
11	<italic>In Situ</italic> Synaptic Programming of CBRAM in an Ionizing Radiation Environment. IEEE Transactions on Nuclear Science, 2018, 65, 192-199.	1.2	5
12	Integrated circuit identification and true random numbers using 1.5-transistor flash memory. , 2017, , .		4
13	Total-Ionizing-Dose Effects on Resistance Stability of Programmable Metallization Cell Based Memory and Selectors. IEEE Transactions on Nuclear Science, 2017, 64, 269-276.	1.2	11
14	A Comparative Study on TID Influenced Lateral Diffusion of Group 11 Metals into GexS <sub>1-x </sub> and Ge <sub>x</sub> Se <sub>1-x</sub> Systems: A Flexible Radiation Sensor Development Perspective. IEEE Transactions on Nuclear Science, 2017, , 1-1.	1.2	0
15	Design, Construction, and Modeling of a <sup>252</sup> Cf Neutron Irradiator. Science and Technology of Nuclear Installations, 2016, 2016, 1-12.	0.3	9
16	Ag-chalcogenide glass flexible radiation sensor: Impact of atomic ratio of Se on the TID influenced lateral diffusion of Ag. , 2016, , .		1
17	Flexible Ag-ChG Radiation Sensors: Limit of Detection and Dynamic Range Optimization Through Physical Design Tuning. IEEE Transactions on Nuclear Science, 2016, 63, 2137-2144.	1.2	7
18	Discrimination of Neutron-Gamma Ray Pulses With Pileup Using Normalized Cross Correlation and Principal Component Analysis. IEEE Transactions on Nuclear Science, 2016, 63, 2764-2771.	1.2	11

#	Article	IF	CITATIONS
19	Nonlinear dynamic modeling and simulation of a passively cooled small modular reactor. Progress in Nuclear Energy, 2016, 91, 116-131.	1.3	30
20	Radiation Hardening by Process of CBRAM Resistance Switching Cells. IEEE Transactions on Nuclear Science, 2016, 63, 2145-2151.	1.2	15
21	An Embedded Microprocessor Radiation Hardened by Microarchitecture and Circuits. IEEE Transactions on Computers, 2016, 65, 382-395.	2.4	17
22	High event rate, pulse shape discrimination algorithm for CLYC. , 2015, , .		6
23	Optimization of Flexible Ag-Chalcogenide Class Sensors for Radiation Detection. , 2015, , .		5
24	Contemplating a residential battery system for the Southwestern U.S., , 2015, , .		0
25	A Study of Gamma-Ray Exposure of Cu–SiO\$_2\$ Programmable Metallization Cells. IEEE Transactions on Nuclear Science, 2015, 62, 2404-2411.	1.2	24
26	A novel methodology for power cable monitoring using frequency domain analysis. , 2015, , .		2
27	New passive methodology for online power cable diagnosis by frequency analysis. , 2015, , .		0
28	TID Impact on Process Modified CBRAM Cells. , 2015, , .		6
29	Evaluation of 1.5-T Cell Flash Memory Total Ionizing Dose Response. IEEE Transactions on Nuclear Science, 2015, 62, 2431-2439.	1.2	5
30	A dynamic model of a passively cooled small modular reactor for controller design purposes. Nuclear Engineering and Design, 2015, 289, 218-230.	0.8	27
31	Flexible Sensors Based on Radiation-Induced Diffusion of Ag in Chalcogenide Glass. IEEE Transactions on Nuclear Science, 2014, 61, 3432-3437.	1.2	11
32	Ionizing Radiation Effects on Nonvolatile Memory Properties of Programmable Metallization Cells. IEEE Transactions on Nuclear Science, 2014, 61, 2985-2990.	1.2	29
33	Total ionizing dose effect of Î <sup>3</sup> -ray radiation on the switching characteristics and filament stability of HfOx resistive random access memory. Applied Physics Letters, 2014, 104, .	1.5	57
34	Total-ionizing-dose effects on the impedance of silverdoped chalcogenide programmable metallization cells. , 2014, , .		1
35	Development of software for calculating electromagnetic fields near power lines. , 2014, , .		7
36	Implementing a pressurized water reactor nuclear power plant model into grid simulations. , 2014, , .		6

3

#	Article	IF	CITATIONS
37	Gamma radiation induced effects in floppy and rigid Ge-containing chalcogenide thin films. Journal of Applied Physics, 2014, 115, 043502.	1.1	16
38	Total Ionizing Dose Retention Capability of Conductive Bridging Random Access Memory. IEEE Electron Device Letters, 2014, 35, 205-207.	2.2	33
39	FREEDM Precollege Programs: Inspiring Generation Y to Pursue Careers in the Electric Power Industry. IEEE Transactions on Power Systems, 2014, 29, 1888-1895.	4.6	5
40	Total Ionizing Dose Tolerance of \${m Ag} - {m Ge}_{40}{m S}_{60}\$ based Programmable Metallization Cells. IEEE Transactions on Nuclear Science, 2014, 61, 1726-1731.	1.2	18
41	Li-Ion Batteries Used as Ubiquitous Neutron Sensors for Nuclear Forensics. IEEE Transactions on Nuclear Science, 2013, 60, 644-651.	1.2	2
42	Sensors Based on Radiation-Induced Diffusion of Silver in Germanium Selenide Glasses. IEEE Transactions on Nuclear Science, 2013, 60, 4257-4264.	1.2	19
43	Total-Ionizing-Dose Effects on the Resistance Switching Characteristics of Chalcogenide Programmable Metallization Cells. IEEE Transactions on Nuclear Science, 2013, 60, 4563-4569.	1.2	34
44	Development of a linearized model of a pressurized water reactor generating station for power system dynamic simulations. , 2013, , .		7
45	Radiation Effects of High Voltage MESFETs at the 45nm Node. , 2013, , .		0
46	The Stability and Reliability of Mixed Oxide-Based Thin Film Transistors under Gamma Irradiation. ECS Transactions, 2013, 50, 191-196.	0.3	0
47	FREEDM ERC precollege programs: Motivating careers in the electric power industry. , 2013, , .		0
48	Radiation Tolerant MESFET-CMOS Low Dropout Linear Regulator for Integrated Power Management at the 45nm Node. , 2013, , .		1
49	Feasibility of using LiMnO <inf>2</inf> batteries for nuclear forensics. , 2013, , .		0
50	Total ionizing dose tolerance of the resistance switching of Ag-Ge4oSeo based Programmable Metallization Cells. , 2013, , .		5
51	Nuclear Power Plant Instrumentation Fault Detection Using Fuzzy Logic. Science and Technology of Nuclear Installations, 2012, 2012, 1-11.	0.3	13
52	An analysis of atmospheric carbon dioxide content and impacts of global generation supply changes. , 2012, , .		0
53	Effects of Cobalt-60 Gamma-Rays on Ge-Se Chalcogenide Glasses and Ag/Ge-Se Test Structures. IEEE Transactions on Nuclear Science, 2012, 59, 3093-3100.	1.2	19
54	A 90-nm Radiation Hardened Clock Spine. IEEE Transactions on Nuclear Science, 2012, 59, 1020-1026.	1.2	13

#	Article	IF	CITATIONS
55	Modeling Inter-Device Leakage in 90 nm Bulk CMOS Devices. IEEE Transactions on Nuclear Science, 2011, 58, 793-799.	1.2	83
56	A 90-nm radiation hardened clock spine. , 2011, , .		5
57	Fully Automated, Testable Design of Fine-Grained Triple Mode Redundant Logic. IEEE Transactions on Nuclear Science, 2011, 58, 3046-3052.	1.2	11
58	Validation of and delay variation in total ionizing dose hardened standard cell libraries. , 2011, , .		13
59	Reliability and economic based analysis to determine an opportune rehabilitation and modernization schedule for hydroelectric facilities. , 2011, , .		0
60	Temporal sequential logic hardening by design with a low power delay element. , 2011, , .		11
61	A Dual Mode Redundant Approach for Microprocessor Soft Error Hardness. IEEE Transactions on Nuclear Science, 2011, 58, 3018-3025.	1.2	14
62	Effects of Gamma Irradiation and Electrical Stress on a-Si:H Thin-Film Transistors for Flexible Electronics and Displays. Journal of Display Technology, 2011, 7, 325-329.	1.3	16
63	Single event upset mitigation techniques for FPGAs utilized in nuclear power plant digital instrumentation and control. Nuclear Engineering and Design, 2011, 241, 3317-3324.	0.8	7
64	Modeling of Ionizing Radiation-Induced Degradation in Multiple Gate Field Effect Transistors. IEEE Transactions on Nuclear Science, 2011, 58, 499-505.	1.2	88
65	The sensitivity enhancement for the radiation sensor based on Film Bulk Acoustic-Wave Resonator. , 2011, , .		1
66	Multi-university precollege outreach from a renewable energy focused engineering research center. , 2011, , .		3
67	Solar Energy Calculations. , 2011, , 189-204.		2
68	Solar Thermal Electric Power Plants. , 2011, , 225-246.		0
69	Void diagnostics in liquid-filled pressure sensing lines. Progress in Nuclear Energy, 2010, 52, 503-511.	1.3	4
70	Single event transient mitigation in cache memory using transient error checking circuits. , 2010, , .		5
71	Film Bulk Acoustic-Wave Resonator based radiation sensor. , 2010, , .		2
72	Failure Analysis and Radiation-Enabled Circuit Simulation of a Dual Charge Pump Circuit. IEEE Transactions on Nuclear Science, 2010, , .	1.2	4

#	Article	IF	CITATIONS
73	Solar thermal electricity generation and desalination in the Southwestern United States. , 2010, , .		6
74	Design and Experimental Validation of Radiation Hardened by Design SRAM Cells. IEEE Transactions on Nuclear Science, 2010, 57, 258-265.	1.2	4
75	Performance of Commercial Off-the-Shelf Microelectromechanical Systems Sensors in a Pulsed Reactor Environment. , 2010, , .		3
76	A 90 nm Bulk CMOS Radiation Hardened by Design Cache Memory. IEEE Transactions on Nuclear Science, 2010, 57, 2089-2097.	1.2	7
77	Strategies, Challenges and Prospects for Active Learning in the Computer-Based Classroom. IEEE Transactions on Education, 2009, 52, 31-38.	2.0	37
78	Blockage diagnostics for nuclear power plant pressure transmitter sensing lines. Nuclear Engineering and Design, 2009, 239, 365-372.	0.8	13
79	Applying the equivalent pi circuit to the modeling of hydraulic pressurized lines. Mathematics and Computers in Simulation, 2009, 79, 2064-2075.	2.4	22
80	Magnetic Fields Produced by Underground Residential Distribution System. IEEE Transactions on Power Delivery, 2009, 24, 1616-1622.	2.9	7
81	High speed redundant self-correcting circuits for radiation hardened by design logic. , 2009, , .		8
82	Modeling the Dose Rate Response and the Effects of Hydrogen in Bipolar Technologies. IEEE Transactions on Nuclear Science, 2009, 56, 3196-3202.	1.2	29
83	A 90 nm bulk CMOS radiation hardened by design cache memory. , 2009, , .		1
84	The Effects of Aging and Hydrogen on the Radiation Response of Gated Lateral PNP Bipolar Transistors. IEEE Transactions on Nuclear Science, 2009, 56, 3361-3366.	1.2	12
85	Modeling of ionizing radiation-induced degradation in multiple gate field effect transistors. , 2009, , .		3
86	Impact of solar thermal power plants on water resources and electricity costs in the Southwest. , 2009, , .		11
87	Radiation Hardened By Design Digital I/O for High SEE and TID Immunity. IEEE Transactions on Nuclear Science, 2009, 56, 3408-3414.	1.2	7
88	Post-Irradiation Annealing Mechanisms of Defects Generated in Hydrogenated Bipolar Oxides. IEEE Transactions on Nuclear Science, 2008, 55, 3032-3038.	1.2	19
89	The Effects of Hydrogen on the Enhanced Low Dose Rate Sensitivity (ELDRS) of Bipolar Linear Circuits. IEEE Transactions on Nuclear Science, 2008, 55, 3169-3173.	1.2	72
90	The Impact of Total Ionizing Dose on Unhardened SRAM Cell Margins. IEEE Transactions on Nuclear Science, 2008, 55, 3280-3287.	1.2	29

#	Article	IF	CITATIONS
91	Memory design for high temperature radiation environments. , 2008, , .		5
92	Survey of underground cable generated magnetic fields in a residential subdivision. , 2008, , .		2
93	Prediction of Corning InfiniCor 300 Optical Fiber Attenuation at Low Gamma Dose Rates. IEEE Transactions on Nuclear Science, 2008, 55, 3515-3522.	1.2	6
94	Effects of high-temperature anneals and Co60 gamma-ray irradiation on strained silicon on insulator. Journal of Applied Physics, 2007, 102, 074507.	1.1	2
95	CMOS Compatible SOI MESFETs for Wide Temperature Range Electronics. , 2007, , .		3
96	Intrusion detection through SCADA systems using fuzzy logic-based state estimation methods. International Journal of Critical Infrastructures, 2007, 3, 58.	0.1	9
97	Mechanisms of Enhanced Radiation-Induced Degradation Due to Excess Molecular Hydrogen in Bipolar Oxides. IEEE Transactions on Nuclear Science, 2007, 54, 1913-1919.	1.2	75
98	An analysis of Utility Incentives for Residential Photovoltaic Installations in Phoenix, Arizona. , 2007, ,		8
99	Optimizing Radiation Hard by Design SRAM Cells. IEEE Transactions on Nuclear Science, 2007, 54, 2028-2036.	1.2	38
100	Modeling Magnetic Fields Generated by Single-Phase Distribution Cables. , 2007, , .		0
101	Enhanced TID Susceptibility in Sub-100 nm Bulk CMOS I/O Transistors and Circuits. IEEE Transactions on Nuclear Science, 2007, 54, 2210-2217.	1.2	73
102	Reverse-Body Biasing for Radiation-Hard by Design Logic Gates. , 2007, , .		4
103	A 130-nm RHBD SRAM With High Speed SET and Area Efficient TID Mitigation. IEEE Transactions on Nuclear Science, 2007, 54, 2092-2099.	1.2	13
104	Radiation Hardened by Design RF Circuits Implemented in 0.13 \$mu\$m CMOS Technology. IEEE Transactions on Nuclear Science, 2006, 53, 3449-3454.	1.2	21
105	Extension of Power Line Fault Location Techniques to Pressurized Line Diagnostics. , 2006, , .		1
106	Use of Satellite Technologies for Power System Measurements, Command, and Control. Proceedings of the IEEE, 2005, 93, 947-955.	16.4	40
107	Response of lead metaniobate acoustic emission sensors to gamma irradiation. IEEE Transactions on Nuclear Science, 2005, 52, 2583-2590.	1.2	22
108	Embedding Remote Experimentation in Power Engineering Education. IEEE Transactions on Power Systems, 2004, 19, 139-143.	4.6	67

#	Article	IF	CITATIONS
109	Novel Technique to Improve Power Engineering Education Through Computer-Assisted Interactive Learning. IEEE Transactions on Power Systems, 2004, 19, 81-87.	4.6	4
110	Lateral-Type Field Emission-Based Magnetic Sensor Fabricated by Electron-Beam Lithography. Journal of the Electrochemical Society, 2004, 151, H81.	1.3	2
111	Response of piezoresistive MEMS accelerometers and pressure transducers to high gamma dose. IEEE Transactions on Nuclear Science, 2003, 50, 1852-1859.	1.2	20
112	Power engineering education and the Internet: motivation and instructional tools. IEEE Transactions on Power Systems, 2002, 17, 7-12.	4.6	13
113	Ethnic and age trends for body composition in women residing in the U.S. Southwest: I. regional fat. Medicine and Science in Sports and Exercise, 1997, 29, 82-89.	0.2	12
114	Ethnic and age trends for body composition in women residing in the U.S. Southwest: II. total fat. Medicine and Science in Sports and Exercise, 1997, 29, 90-98.	0.2	10
115	Fuzzy associative memories for instrument fault detection. Annals of Nuclear Energy, 1996, 23, 739-756.	0.9	20
116	Measurement of Radioactivity in Arizona Groundwater Using Improved Analytical Techniques for Samples with High Dissolved Solids. Health Physics, 1995, 68, 185-194.	0.3	13
117	Lung Dose Estimates from 222Rn in Arizona Groundwater Based on Liquid Scintillation Measurements. Health Physics, 1995, 68, 699-703.	0.3	22
118	Valid Ranges for Using the Cross-Power Spectral Density Phase Angle for Moderator Temperature Coefficient Sign Determination. Nuclear Science and Engineering, 1995, 119, 203-211.	0.5	4
119	Redundant Sensor Validation by Using Fuzzy Logic. Nuclear Science and Engineering, 1994, 118, 54-64.	0.5	28
120	Underground Air Returns As Active Transportation Pathways for Radon Gas Entry Into Homes. Health Physics, 1992, 63, 665-673.	0.3	9
121	Mitigation of Elevated Indoor Radon Gas Resulting from Underground Air Return Usage. Health Physics, 1992, 63, 674-680.	0.3	10
122	Process hypercube comparison for signal validation. IEEE Transactions on Nuclear Science, 1991, 38, 803-811.	1.2	4
123	An Integrated Signal Validation System for Nuclear Power Plants. Nuclear Technology, 1990, 92, 411-427.	0.7	30