

E S Bielejec

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,920
citations

567281

15
h-index

276875

41
g-index

41
all docs

41
docs citations

41
times ranked

2270
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrated diamond nanophotonics platform for quantum-optical networks. <i>Science</i> , 2016, 354, 847-850.	12.6	570
2	Large-scale integration of artificial atoms in hybrid photonic circuits. <i>Nature</i> , 2020, 583, 226-231.	27.8	248
3	Photon-mediated interactions between quantum emitters in a diamond nanocavity. <i>Science</i> , 2018, 362, 662-665.	12.6	189
4	Strain engineering of the silicon-vacancy center in diamond. <i>Physical Review B</i> , 2018, 97, .	3.2	171
5	Scalable focused ion beam creation of nearly lifetime-limited single quantum emitters in diamond nanostructures. <i>Nature Communications</i> , 2017, 8, 15376.	12.8	141
6	Fiber-Coupled Diamond Quantum Nanophotonic Interface. <i>Physical Review Applied</i> , 2017, 8, .	3.8	115
7	Initial Assessment of the Effects of Radiation on the Electrical Characteristics of TaO_x Memristive Memories. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 2987-2994.	2.0	69
8	Field-Tuned Superconductor-Insulator Transition with and without Current Bias. <i>Physical Review Letters</i> , 2002, 88, 206802.	7.8	46
9	Ion implantation for deterministic single atom devices. <i>Review of Scientific Instruments</i> , 2017, 88, 123301.	1.3	41
10	Defect-driven gain bistability in neutron damaged, silicon bipolar transistors. <i>Applied Physics Letters</i> , 2007, 90, 172105.	3.3	38
11	A Comparison of the Radiation Response of TaO_x and TiO_2 Memristors. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 4512-4519.	2.0	37
12	Bright nanowire single photon source based on SiV centers in diamond. <i>Optics Express</i> , 2018, 26, 80.	3.4	37
13	Damage Equivalence of Heavy Ions in Silicon Bipolar Junction Transistors. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 3681-3686.	2.0	23
14	Optical activation and detection of charge transport between individual colour centres in diamond. <i>Nature Electronics</i> , 2021, 4, 717-724.	26.0	23
15	Electron Glass in Ultrathin Granular Al Films at Low Temperatures. <i>Physical Review Letters</i> , 2001, 87, 256601.	7.8	22
16	Metrics for Comparison Between Displacement Damage due to Ion Beam and Neutron Irradiation in Silicon BJTs. <i>IEEE Transactions on Nuclear Science</i> , 2007, 54, 2282-2287.	2.0	14
17	Irradiation Effects on Perpendicular Anisotropy Spin-Orbit Torque Magnetic Tunnel Junctions. <i>IEEE Transactions on Nuclear Science</i> , 2021, 68, 665-670.	2.0	13
18	Nanoscale solid-state nuclear quadrupole resonance spectroscopy using depth-optimized nitrogen-vacancy ensembles in diamond. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	11

#	ARTICLE	IF	CITATIONS
19	Hidden Silicon-Vacancy Centers in Diamond. <i>Physical Review Letters</i> , 2021, 126, 213601.	7.8	10
20	Continuous distribution of defect states and band gap narrowing in neutron irradiated GaAs. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	9
21	Heavy-Ion-Induced Displacement Damage Effects in Magnetic Tunnel Junctions With Perpendicular Anisotropy. <i>IEEE Transactions on Nuclear Science</i> , 2021, 68, 581-587.	2.0	9
22	Controlling light emission by engineering atomic geometries in silicon photonics. <i>Optics Letters</i> , 2020, 45, 1631.	3.3	9
23	Imaging dark charge emitters in diamond via carrier-to-photon conversion. <i>Science Advances</i> , 2022, 8, eabl9402.	10.3	9
24	Training a Neural Network on Analog TaO _x ReRAM Devices Irradiated With Heavy Ions: Effects on Classification Accuracy Demonstrated With CrossSim. <i>IEEE Transactions on Nuclear Science</i> , 2019, 66, 54-60.	2.0	8
25	Investigating Heavy-Ion Effects on 14-nm Process FinFETs: Displacement Damage Versus Total Ionizing Dose. <i>IEEE Transactions on Nuclear Science</i> , 2021, 68, 724-732.	2.0	8
26	Impact of Surface Recombination on Single-Event Charge Collection in an SOI Technology. <i>IEEE Transactions on Nuclear Science</i> , 2021, 68, 305-311.	2.0	7
27	Comparison Between Experimental and Simulation Results for Ion Beam and Neutron Irradiations in Silicon Bipolar Junction Transistors. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 3055-3059.	2.0	6
28	Tunneling and nonlinear transport in a low-dimensional vertically coupled GaAs/AlGaAs system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 34, 433-436.	2.7	5
29	Mapping of Radiation-Induced Resistance Changes and Multiple Conduction Channels in $m\text{TaO}_x$ Memristors. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 2965-2971.	2.0	5
30	Nonlinear resonant tunneling in low-dimensional systems in a magnetic field: Energy dispersion. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 34, 425-428.	2.7	4
31	Lithium source for focused ion beam implantation and analysis. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2021, 39, .	1.2	4
32	Tunneling spectroscopy in vertically coupled quantum wires. <i>Solid State Communications</i> , 2008, 147, 79-82.	1.9	3
33	Stochastic Gain Degradation in 11keV Heterojunction Bipolar Transistors Due to Single Particle Displacement Damage. <i>IEEE Transactions on Nuclear Science</i> , 2018, 65, 206-210.	2.0	3
34	Sub-Micron Resolution of Localized Ion Beam Induced Charge Reduction in Silicon Detectors Damaged by Heavy Ions. <i>IEEE Transactions on Nuclear Science</i> , 2015, 62, 2919-2925.	2.0	2
35	Comparison of Radiation Effects in Custom and Commercially Fabricated Resistive Memory Devices. <i>IEEE Transactions on Nuclear Science</i> , 2019, 66, 2398-2407.	2.0	2
36	Failure Thresholds in CBRAM Due to Total Ionizing Dose and Displacement Damage Effects. <i>IEEE Transactions on Nuclear Science</i> , 2019, 66, 69-76.	2.0	2

#	ARTICLE	IF	CITATIONS
37	Using silicon-vacancy centers in diamond to probe the full strain tensor. Journal of Applied Physics, 2021, 130, 024301.	2.5	2
38	Coherent Interactions between Silicon-Vacancy Centers in Diamond. Physical Review Letters, 2022, 128, .	7.8	2
39	0.7 structure in long quantum wires. Superlattices and Microstructures, 2003, 34, 493-496.	3.1	1
40	Experimental Study of Defect Formations in GaAs Devices Using Gain, Photoluminescence and Deep Level Transient Spectroscopy. IEEE Transactions on Nuclear Science, 2013, 60, 219-223.	2.0	1
41	Photocurrent From Single Collision 14-MeV Neutrons in GaN and GaAs. IEEE Transactions on Nuclear Science, 2020, 67, 221-227.	2.0	1