Erin Patrick

List of Publications by Year
in descending order

20 papers	659 citations	933264 10 h-index	1058333 14 g-index
21 all docs	21 docs citations	21 times ranked	1045 citing authors

#	Article	IF	Citations
1	Reviewâ€"Ionizing Radiation Damage Effects on GaN Devices. ECS Journal of Solid State Science and Technology, 2016, 5, Q35-Q60.	0.9	243
2	Corrosion of tungsten microelectrodes used in neural recording applications. Journal of Neuroscience Methods, 2011, 198, 158-171.	1.3	142
3	Electrode impedance analysis of chronic tungsten microwire neural implants: understanding abiotic vs. biotic contributions. Frontiers in Neuroengineering, 2014, 7, 13.	4.8	67
4	Modeling Proton Irradiation in AlGaN/GaN HEMTs: Understanding the Increase of Critical Voltage. IEEE Transactions on Nuclear Science, 2013, 60, 4103-4108.	1.2	34
5	Thermal Simulations of High Current Î²-Ga₂O₃ Schottky Rectifiers. ECS Journal of Solid State Science and Technology, 2019, 8, Q3195-Q3201.	0.9	31
6	Effects of fluorine incorporation into Î²-Ga2O3. Journal of Applied Physics, 2018, 123, .	1.1	27
7	Effect of proton irradiation on AlGaN/GaN high electron mobility transistor off-state drain breakdown voltage. Applied Physics Letters, 2014, 104, .	1.5	21
8	Thermal Stability of Implanted or Plasma Exposed Deuterium in Single Crystal Ga₂O₃. ECS Journal of Solid State Science and Technology, 2017, 6, Q3026-Q3029.	0.9	19
9	Deuterium incorporation and diffusivity in plasma-exposed bulk Ga2O3. Applied Physics Letters, 2016, 109, .	1.5	16
10	Extraction of Migration Energies and Role of Implant Damage on Thermal Stability of Deuterium in Ga₂O₃. ECS Journal of Solid State Science and Technology, 2017, 6, P794-P797.	0.9	16
11	Total Dose Radiation Damage: A Simulation Framework. IEEE Transactions on Nuclear Science, 2015, 62, 1650-1657.	1.2	11
12	Flexible polymer substrate and tungsten microelectrode array for an implantable neural recording system. , 2008, 2008, 3158-61.		7
13	Enhancement of AlGaN/GaN high electron mobility transistors off-state drain breakdown voltage via backside proton irradiation. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, 021203.	0.6	7
14	Effects of Varied Stimulation Parameters on Adipose-Derived Stem Cell Response to Low-Level Electrical Fields. Annals of Biomedical Engineering, 2021, 49, 3401-3411.	1.3	6
15	Modeling Process and Device Behavior of Josephson Junctions in Superconductor Electronics With TCAD. IEEE Transactions on Electron Devices, 2021, 68, 5448-5454.	1.6	5
16	An implantable integrated low-power amplifier-microelectrode array for Brain-Machine Interfaces. , 2010, 2010, 1816-9.		4
17	Design of an implantable intracortical microelectrode system for brain-machine interfaces. , 2009, , .		1
18	Moving From Wired to Wireless Brain Stimulation to Treat Movement Disorders: Are We Breaking Ground?. Movement Disorders, 2021, 36, 610-610.	2.2	0

#	Article	IF	Citations
19	A multi-channel peripheral nerve stimulator with integrate-and-fire encoding. Journal of Medical Engineering and Technology, 2021, 45, 187-196.	0.8	0
20	Design and Fabrication of a Flexible Substrate Microelectrode Array for Brain Machine Interfaces. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0