Patrick Carey

List of Publications by Citations

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33 1,565 15 34 g-index

34 1,992 3.2 4.92 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
33	A review of Ga2O3 materials, processing, and devices. <i>Applied Physics Reviews</i> , 2018 , 5, 011301	17.3	1114
32	Band alignment of Al2O3 with (201) EGa2O3. <i>Vacuum</i> , 2017 , 142, 52-57	3.7	47
31	Band offsets in ITO/Ga2O3 heterostructures. <i>Applied Surface Science</i> , 2017 , 422, 179-183	6.7	35
30	Ohmic contacts on n-type EGa2O3 using AZO/Ti/Au. <i>AIP Advances</i> , 2017 , 7, 095313	1.5	32
29	Valence and conduction band offsets in AZO/Ga2O3 heterostructures. <i>Vacuum</i> , 2017 , 141, 103-108	3.7	29
28	Hydrogen plasma treatment of EGa2O3: Changes in electrical properties and deep trap spectra. <i>Applied Physics Letters</i> , 2019 , 115, 032101	3.4	29
27	Improvement of Ohmic contacts on Ga2O3 through use of ITO-interlayers. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2017 , 35, 061201	1.3	27
26	Operation Up to 500 °C of Al0.85Ga0.15N/Al0.7Ga0.3N High Electron Mobility Transistors. <i>IEEE Journal of the Electron Devices Society</i> , 2019 , 7, 444-452	2.3	27
25	Band alignment of atomic layer deposited SiO2and HfSiO4with \$(bar{2}01)\$ EGa2O3. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 071101	1.4	27
24	Vertical geometry 33.2 A, 4.8 MW cm2 Ga2O3 field-plated Schottky rectifier arrays. <i>Applied Physics Letters</i> , 2019 , 114, 232106	3.4	26
23	Defects at the surface of EGa2O3 produced by Ar plasma exposure. <i>APL Materials</i> , 2019 , 7, 061102	5.7	25
22	Conduction and valence band offsets of LaAl2O3 with (201) EGa2O3. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2017 , 35, 041201	1.3	24
21	Rapid detection of cardiac troponin I using antibody-immobilized gate-pulsed AlGaN/GaN high electron mobility transistor structures. <i>Applied Physics Letters</i> , 2017 , 111, 202104	3.4	19
20	Zika virus detection using antibody-immobilized disposable cover glass and AlGaN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , 2018 , 113, 032101	3.4	18
19	Comparison of Dual-Stack Dielectric Field Plates on EGa2O3 Schottky Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3221-Q3225	2	16
18	Extreme Temperature Operation of Ultra-Wide Bandgap AlGaN High Electron Mobility Transistors. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2019 , 32, 473-477	2.6	13
17	Novel Coatings to Minimize Bacterial Adhesion and Promote Osteoblast Activity for Titanium Implants. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	7

LIST OF PUBLICATIONS

16	Antibacterial Properties of Charged TiN Surfaces for Dental Implant Application. <i>ChemistrySelect</i> , 2019 , 4, 9185-9189	1.8	6	
15	Fast SARS-CoV-2 virus detection using disposable cartridge strips and a semiconductor-based biosensor platform. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2021 , 39, 033202	1.3	6	
14	Fast Cerebrospinal Fluid Detection Using Inexpensive Modular Packaging with Disposable Testing Strips. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B708-B712	3.9	5	
13	Effects of Hydrogen Plasma Treatment Condition on Electrical Properties of EGa2O3. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, P661-P666	2	4	
12	Review Opportunities for Rapid, Sensitive Detection of Troponin and Cerebral Spinal Fluid Using Semiconductor Sensors. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 037507	3.9	4	
11	Rapid Electrochemical Detection for SARS-CoV-2 and Cardiac Troponin I Using Low-Cost, Disposable and Modular Biosensor System 2020 ,		4	
10	Vertical EGa2O3 Schottky rectifiers with 750 V reverse breakdown voltage at 600 K. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 305103	3	4	
9	Hydroxyapatite Formation on Coated Titanium Implants Submerged in Simulated Body Fluid. <i>Materials</i> , 2020 , 13,	3.5	3	
8	A Two-Electrode, Double-Pulsed Sensor Readout Circuit for Cardiac Troponin I Measurement. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020 , 14, 1362-1370	5.1	3	
7	Alpha Particle Irradiation of High Aluminum Content AlGan Polarization Doped Field Effect Transistors. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 035008	2	2	
6	Proton Irradiation of High Aluminum Content AlGaN Polarization Doped Field Effect Transistors. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 025003	2	2	
5	Nanosensor networks for health-care applications 2020 , 405-417		2	
4	Band alignments of dielectrics on (1201) EGa2O3 2019 , 287-311		2	
3	Digital biosensor for human cerebrospinal fluid detection with single-use sensing strips. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2022 , 40, 023202	1.3	1	
2	Neutron Irradiation of AlGaN Polarization Doped Field Effect Transistors. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 065007	2	1	
1	High temperature operation to 500 LC of AlGaN graded polarization-doped field-effect transistors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 033202	1.3	1	