

Chaker Fares

List of Publications by Year in Descending Order

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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.

54 papers	619 citations	12 h-index	21 g-index
65 ext. papers	825 ext. citations	2.7 avg, IF	4.29 L-index

#	Paper	IF	Citations
54	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
53	Al Composition Dependence of Band Offsets for SiO ₂ on $\text{Al}_x\text{Ga}_{1-x}\text{O}_3$. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 113007	2	1
52	Vertical AlGaO_3 Schottky rectifiers with 750 V reverse breakdown voltage at 600 K. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 305103	3	4
51	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
50	Qualitative Analysis of Remineralization Capabilities of Bioactive Glass (NovaMin) and Fluoride on Hydroxyapatite (HA) Discs: An In Vitro Study. <i>Materials</i> , 2021 , 14,	3.5	3
49	Novel Coatings to Minimize Corrosion of Titanium in Oral Biofilm. <i>Materials</i> , 2021 , 14,	3.5	4
48	OH-Si complex in hydrogenated n-type $\text{AlGaO}_3\text{:Si}$. <i>Applied Physics Letters</i> , 2021 , 119, 062109	3.4	6
47	Nanostructured Surfaces to Promote Osteoblast Proliferation and Minimize Bacterial Adhesion on Titanium. <i>Materials</i> , 2021 , 14,	3.5	3
46	Temperature dependent performance of ITO Schottky contacts on AlGaO_3 . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 053405	2.9	6
45	Nitrogen ion-implanted resistive regions for edge termination of vertical GaO_3 rectifiers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 063405	2.9	3
44	Effect of probe geometry during measurement of >100 A GaO_3 vertical rectifiers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 013406	2.9	11
43	Titanium Corrosion in Peri-Implantitis. <i>Materials</i> , 2020 , 13,	3.5	1
42	Hydroxyapatite Formation on Coated Titanium Implants Submerged in Simulated Body Fluid. <i>Materials</i> , 2020 , 13,	3.5	3
41	Band offset determination for amorphous Al_2O_3 deposited on bulk AlN and atomic-layer epitaxial AlN on sapphire. <i>Applied Physics Letters</i> , 2020 , 117, 182103	3.4	1
40	Annealing Effects on the Band Alignment of ALD SiO ₂ on $(\text{In}_x\text{Ga}_{1-x})_2\text{O}_3$ for $x = 0.25$ – 0.74 . <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 045001	2	
39	Annealing and N Plasma Treatment to Minimize Corrosion of SiC-Coated Glass-Ceramics. <i>Materials</i> , 2020 , 13,	3.5	2
38	Novel Coatings to Minimize Bacterial Adhesion and Promote Osteoblast Activity for Titanium Implants. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	7

37	Novel Coating to Minimize Corrosion of Glass-Ceramics for Dental Applications. <i>Materials</i> , 2020 , 13,	3.5	7
36	Asymmetrical Contact Geometry to Reduce Forward-Bias Degradation in $\text{InGa}_{2\text{O}_3}$ Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 035007	2	5
35	Changes in band alignment during annealing at 600 °C of ALD Al_2O_3 on $(\text{In}_x\text{Ga}_{1-x})_2\text{O}_3$ for $x = 0.25$ – 0.74 . <i>Journal of Applied Physics</i> , 2020 , 127, 105701	2.5	3
34	Anti-Bacterial Properties and Biocompatibility of Novel SiC Coating for Dental Ceramic. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	11
33	Demonstration of a SiC Protective Coating for Titanium Implants. <i>Materials</i> , 2020 , 13,	3.5	10
32	Rapid Electrochemical Detection for SARS-CoV-2 and Cardiac Troponin I Using Low-Cost, Disposable and Modular Biosensor System 2020 ,		4
31	Forward bias degradation and thermal simulations of vertical geometry $\text{InGa}_{2\text{O}_3}$ Schottky rectifiers. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019 , 37, 061205	1.3	11
30	Band Offsets of Insulating & Semiconducting Oxides on $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$. <i>ECS Transactions</i> , 2019 , 92, 79-88	1	5
29	Effect of thermal annealing for $\text{W}/\text{InGa}_{2\text{O}_3}$ Schottky diodes up to 600 °C. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019 , 37, 061201	1.3	10
28	Radiation damage effects in Ga_2O_3 materials and devices. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10-24	1	90
27	Device processing and junction formation needs for ultra-high power Ga_2O_3 electronics. <i>MRS Communications</i> , 2019 , 9, 77-87	2.7	11
26	Switching Behavior and Forward Bias Degradation of 700V, 0.2A, $\text{InGa}_{2\text{O}_3}$ Vertical Geometry Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3028-Q3033	2	12
25	Vertical geometry 33.2 A, 4.8 MW cm^2 Ga_2O_3 field-plated Schottky rectifier arrays. <i>Applied Physics Letters</i> , 2019 , 114, 232106	3.4	26
24	Demonstration of SiO/SiC based protective coating for dental ceramic prostheses. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6591-6599	3.8	7
23	Damage Recovery and Dopant Diffusion in Si and Sn Ion Implanted $\text{InGa}_{2\text{O}_3}$. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3133-Q3139	2	20
22	Reverse Breakdown in Large Area, Field-Plated, Vertical $\text{InGa}_{2\text{O}_3}$ Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3159-Q3164	2	16
21	Deep traps and persistent photocapacitance in $(\text{Al}_{0.14}\text{Ga}_{0.86})_2\text{O}_3/\text{Ga}_2\text{O}_3$ heterojunctions. <i>Journal of Applied Physics</i> , 2019 , 125, 095702	2.5	1
20	Valence and Conduction Band Offsets for InN and III-Nitride Ternary Alloys on (001) Bulk $\text{InGa}_{2\text{O}_3}$. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3154-Q3158	2	9

19	60Co Gamma Ray Damage in Homoepitaxial EgGa_2O_3 Schottky Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3041-Q3045	2	10
18	Valence band offsets for ALD SiO_2 and Al_2O_3 on $(\text{In}_x\text{Ga}_{1-x})_2\text{O}_3$ for $x = 0.25$ – 0.74 . <i>APL Materials</i> , 2019 , 7, 071115	5.7	9
17	The role of annealing ambient on diffusion of implanted Si in EgGa_2O_3 . <i>AIP Advances</i> , 2019 , 9, 085111	1.5	18
16	Band Alignment of Atomic Layer Deposited SiO_2 and Al_2O_3 on $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ for $x = 0.2$ – 0.65 . <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, P351-P356	2	8
15	Valence- and Conduction-Band Offsets for Atomic-Layer-Deposited Al_2O_3 on (010) $(\text{Al}_{0.14}\text{Ga}_{0.86})_2\text{O}_3$. <i>Journal of Electronic Materials</i> , 2019 , 48, 1568-1573	1.9	19
14	Effect of Annealing on the Band Alignment of ALD SiO_2 on $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ for $x = 0.2$ - 0.65 . <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, P751-P756	2	4
13	Annealing of Proton and Alpha Particle Damage in Au-W/ EgGa_2O_3 Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, P799-P804	2	1
12	Temperature-Dependent Electrical Characteristics of EgGa_2O_3 Diodes with W Schottky Contacts up to 500°C . <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3007-Q3012	2	28
11	Valence and conduction band offsets for sputtered AZO and ITO on (010) $(\text{Al}_{0.14}\text{Ga}_{0.86})_2\text{O}_3$. <i>Semiconductor Science and Technology</i> , 2019 , 34, 025006	1.8	6
10	Effect of Deposition Method on Valence Band Offsets of SiO_2 and Al_2O_3 on $(\text{Al}_{0.14}\text{Ga}_{0.86})_2\text{O}_3$. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3001-Q3006	2	9
9	Effects of fluorine incorporation into EgGa_2O_3 . <i>Journal of Applied Physics</i> , 2018 , 123, 165706	2.5	16
8	Eighteen mega-electron-volt alpha-particle damage in homoepitaxial EgGa_2O_3 Schottky rectifiers. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 031205	1.3	13
7	Band alignment of atomic layer deposited SiO_2 on (010) $(\text{Al}_{0.14}\text{Ga}_{0.86})_2\text{O}_3$. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 061207	1.3	15
6	Band Offsets for Atomic Layer Deposited HfSiO_4 on $(\text{Al}_{0.14}\text{Ga}_{0.86})_2\text{O}_3$. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, P519-P523	2	8
5	Valence band offsets for CuI on (-201) bulk Ga_2O_3 and epitaxial (010) $(\text{Al}_{0.14}\text{Ga}_{0.86})_2\text{O}_3$. <i>Applied Physics Letters</i> , 2018 , 113, 182101	3.4	12
4	Effect of proton irradiation energy on $\text{SiN}_x/\text{AlGaIn}/\text{GaIn}$ metal-insulator semiconductor high electron mobility transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 052202	1.3	11
3	Defects responsible for charge carrier removal and correlation with deep level introduction in irradiated EgGa_2O_3 . <i>Applied Physics Letters</i> , 2018 , 113, 092102	3.4	46
2	Unipolar Electron Transport Polymers: A Thiazole Based All-Electron Acceptor Approach. <i>Chemistry of Materials</i> , 2016 , 28, 6045-6049	9.6	64

1	Effects of Downstream Plasma Exposure on Ga2O3 Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> ,	2	1
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