

Chaker Fares

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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	Radiation damage effects in Ga ₂ O ₃ materials and devices. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10-24	7.1	90
53	Unipolar Electron Transport Polymers: A Thiazole Based All-Electron Acceptor Approach. <i>Chemistry of Materials</i> , 2016 , 28, 6045-6049	9.6	64
52	Defects responsible for charge carrier removal and correlation with deep level introduction in irradiated β -Ga ₂ O ₃ . <i>Applied Physics Letters</i> , 2018 , 113, 092102	3.4	46
51	Temperature-Dependent Electrical Characteristics of β -Ga ₂ O 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
50	Vertical geometry 33.2 A, 4.8 MW cm ² Ga ₂ O ₃ field-plated Schottky rectifier arrays. <i>Applied Physics Letters</i> , 2019 , 114, 232106	3.4	26
49	Damage Recovery and Dopant Diffusion in Si and Sn Ion Implanted β -Ga ₂ O ₃ . <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3133-Q3139	2	20
48	Valence- and Conduction-Band Offsets for Atomic-Layer-Deposited Al ₂ O ₃ on (010) (Al _{0.14} Ga _{0.86}) ₂ O ₃ . <i>Journal of Electronic Materials</i> , 2019 , 48, 1568-1573	1.9	19
47	The role of annealing ambient on diffusion of implanted Si in β -Ga ₂ O ₃ . <i>AIP Advances</i> , 2019 , 9, 085111	1.5	18
46	Reverse Breakdown in Large Area, Field-Plated, Vertical β -Ga ₂ O ₃ Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3159-Q3164	2	16
45	Effects of fluorine incorporation into β -Ga ₂ O ₃ . <i>Journal of Applied Physics</i> , 2018 , 123, 165706	2.5	16
44	Band alignment of atomic layer deposited SiO ₂ on (010) (Al _{0.14} Ga _{0.86}) ₂ O ₃ . <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 061207	1.3	15
43	Eighteen mega-electron-volt alpha-particle damage in homoepitaxial β -Ga ₂ O ₃ Schottky rectifiers. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 031205	1.3	13
42	Switching Behavior and Forward Bias Degradation of 700V, 0.2A, β -Ga ₂ O ₃ Vertical Geometry Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3028-Q3033	2	12
41	Valence band offsets for CuI on (-201) bulk Ga ₂ O ₃ and epitaxial (010) (Al _{0.14} Ga _{0.86}) ₂ O ₃ . <i>Applied Physics Letters</i> , 2018 , 113, 182101	3.4	12
40	Forward bias degradation and thermal simulations of vertical geometry β -Ga ₂ O ₃ Schottky rectifiers. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019 , 37, 061205	1.3	11
39	Device processing and junction formation needs for ultra-high power Ga ₂ O ₃ electronics. <i>MRS Communications</i> , 2019 , 9, 77-87	2.7	11
38	Anti-Bacterial Properties and Biocompatibility of Novel SiC Coating for Dental Ceramic. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	11

37	Effect of proton irradiation energy on SiNx/AlGaIn/GaN 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
36	Effect of probe geometry during measurement of >100 Å Ga ₂ O ₃ vertical rectifiers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 013406	2.9	11
35	Effect of thermal annealing for W/AlGa ₂ 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
34	60Co Gamma Ray Damage in Homoepitaxial AlGa ₂ O ₃ Schottky Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3041-Q3045	2	10
33	Demonstration of a SiC Protective Coating for Titanium Implants. <i>Materials</i> , 2020 , 13,	3.5	10
32	Valence and Conduction Band Offsets for InN and III-Nitride Ternary Alloys on (001) Bulk AlGa ₂ O ₃ . <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3154-Q3158	2	9
31	Valence band offsets for ALD SiO ₂ and Al ₂ O ₃ on (In _x Ga _{1-x}) ₂ O ₃ for x = 0.25-0.74. <i>APL Materials</i> , 2019 , 7, 071115	5.7	9
30	Effect of Deposition Method on Valence Band Offsets of SiO ₂ and Al ₂ O ₃ on (Al _{0.14} Ga _{0.86}) ₂ O ₃ . <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3001-Q3006	2	9
29	Band Alignment of Atomic Layer Deposited SiO ₂ and Al ₂ O ₃ on (Al _x Ga _{1-x}) ₂ O ₃ for x = 0.2-0.65. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, P351-P356	2	8
28	Band Offsets for Atomic Layer Deposited HfSiO ₄ on (Al _{0.14} Ga _{0.86}) ₂ O ₃ . <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, P519-P523	2	8
27	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
26	Novel Coatings to Minimize Bacterial Adhesion and Promote Osteoblast Activity for Titanium Implants. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	7
25	Novel Coating to Minimize Corrosion of Glass-Ceramics for Dental Applications. <i>Materials</i> , 2020 , 13,	3.5	7
24	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
23	Valence and conduction band offsets for sputtered AZO and ITO on (010) (Al _{0.14} Ga _{0.86}) ₂ O ₃ . <i>Semiconductor Science and Technology</i> , 2019 , 34, 025006	1.8	6
22	OH-Si complex in hydrogenated n-type AlGa ₂ O ₃ :Si. <i>Applied Physics Letters</i> , 2021 , 119, 062109	3.4	6
21	Temperature dependent performance of ITO Schottky contacts on AlGa ₂ O ₃ . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 053405	2.9	6
20	Band Offsets of Insulating & Semiconducting Oxides on (Al _x Ga _{1-x}) ₂ O ₃ . <i>ECS Transactions</i> , 2019 , 92, 79-88	1	5

19	Asymmetrical Contact Geometry to Reduce Forward-Bias Degradation in InGa_{203} Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 035007	2	5
18	Rapid Electrochemical Detection for SARS-CoV-2 and Cardiac Troponin I Using Low-Cost, Disposable and Modular Biosensor System 2020 ,		4
17	Vertical InGa_{203} Schottky rectifiers with 750 V reverse breakdown voltage at 600 K. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 305103	3	4
16	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
15	Novel Coatings to Minimize Corrosion of Titanium in Oral Biofilm. <i>Materials</i> , 2021 , 14,	3.5	4
14	Hydroxyapatite Formation on Coated Titanium Implants Submerged in Simulated Body Fluid. <i>Materials</i> , 2020 , 13,	3.5	3
13	Changes in band alignment during annealing at 600 $^{\circ}\text{C}$ 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
12	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
11	Nanostructured Surfaces to Promote Osteoblast Proliferation and Minimize Bacterial Adhesion on Titanium. <i>Materials</i> , 2021 , 14,	3.5	3
10	Nitrogen ion-implanted resistive regions for edge termination of vertical Ga_{203} rectifiers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 063405	2.9	3
9	Annealing and N Plasma Treatment to Minimize Corrosion of SiC-Coated Glass-Ceramics. <i>Materials</i> , 2020 , 13,	3.5	2
8	Deep traps and persistent photocapacitance in $(\text{Al}_{0.14}\text{Ga}_{0.86})_2\text{O}_3/\text{Ga}_{203}$ heterojunctions. <i>Journal of Applied Physics</i> , 2019 , 125, 095702	2.5	1
7	Titanium Corrosion in Peri-Implantitis. <i>Materials</i> , 2020 , 13,	3.5	1
6	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
5	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
4	Al Composition Dependence of Band Offsets for SiO_2 on $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 113007	2	1
3	Effects of Downstream Plasma Exposure on InGa_{203} Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> ,	2	1
2	Annealing of Proton and Alpha Particle Damage in Au-W/ InGa_{203} Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, P799-P804	2	1

- 1 Annealing Effects on the Band Alignment of ALD SiO₂ on (In_xGa_{1-x})₂O₃ for x = 0.25–0.74. *ECS Journal of Solid State Science and Technology*, **2020**, 9, 045001 2