

Y Kalmann Frodason

List of Publications by Citations

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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.

18
papers

283
citations

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h-index

16
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18
ext. papers

354
ext. citations

3.2
avg. IF

3.9
L-index

#	Paper	IF	Citations
18	Zn vacancy as a polaronic hole trap in ZnO. <i>Physical Review B</i> , 2017 , 95,	3.3	55
17	Self-trapped hole and impurity-related broad luminescence in $\text{E}\text{Ga}2\text{O}3$. <i>Journal of Applied Physics</i> , 2020 , 127, 075701	2.5	46
16	Electrical charge state identification and control for the silicon vacancy in 4H-SiC. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	38
15	Zn vacancy-donor impurity complexes in ZnO. <i>Physical Review B</i> , 2018 , 97,	3.3	28
14	Ti- and Fe-related charge transition levels in $\text{III}\text{Ga}2\text{O}3$. <i>Applied Physics Letters</i> , 2020 , 116, 072101	3.4	20
13	Multistability of isolated and hydrogenated GaO divacancies in $\text{Ga}2\text{O}3$. <i>Physical Review Materials</i> , 2021 , 5,	3.2	15
12	Anisotropic and plane-selective migration of the carbon vacancy in SiC: Theory and experiment. <i>Physical Review B</i> , 2019 , 100,	3.3	12
11	Primary intrinsic defects and their charge transition levels in $\text{Ga}2\text{O}3$. <i>Physical Review Materials</i> , 2020 , 4,	3.2	12
10	Negative-U and polaronic behavior of the Zn-O divacancy in ZnO. <i>Physical Review B</i> , 2019 , 99,	3.3	11
9	Formation and control of the $\text{E}_{\text{Ga}}^{\text{2}}\text{O}_{\text{Ga}}^{\text{3}}$ center in implanted $\text{E}\text{Ga}_{\text{Ga}}^{\text{2}}\text{O}_{\text{Ga}}^{\text{3}}$ by reverse-bias and zero-bias annealing. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 464001	3	11
8	Anisotropic and trap-limited diffusion of hydrogen/deuterium in monoclinic gallium oxide single crystals. <i>Applied Physics Letters</i> , 2020 , 117, 232106	3.4	10
7	Combining steady-state photo-capacitance spectra with first-principles calculations: the case of Fe and Ti in $\text{E}\text{Ga}2\text{O}3$. <i>New Journal of Physics</i> , 2020 , 22, 063033	2.9	7
6	Broad luminescence from donor-complexed LiZn and NaZn acceptors in ZnO. <i>Physical Review B</i> , 2019 , 100,	3.3	5
5	Experimental exploration of the amphoteric defect model by cryogenic ion irradiation of a range of wide band gap oxide materials. <i>Journal of Physics Condensed Matter</i> , 2020 ,	1.8	4
4	Imaging defect complexes in scanning transmission electron microscopy: Impact of depth, structural relaxation, and temperature investigated by simulations. <i>Ultramicroscopy</i> , 2020 , 209, 112884	3.1	3
3	Influence of heat treatments in H ₂ and Ar on the E1 center in $\text{E}\text{Ga}2\text{O}3$. <i>Journal of Applied Physics</i> , 2022 , 131, 115702	2.5	3
2	Diffusion of indium in single crystal zinc oxide: a comparison between group III donors. <i>Semiconductor Science and Technology</i> , 2019 , 34, 025011	1.8	2

1 The interaction between lithium acceptors and gallium donors in zinc oxide. *Journal of Applied Physics*, **2018**, 124, 245702 2.5 1