

James Gibbon

List of Publications by Year in descending order

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753
citing authors

#	ARTICLE	IF	CITATIONS
1	Core Levels, Band Alignments, and Valence-Band States in CuSbS ₂ for Solar Cell Applications. ACS Applied Materials & Interfaces, 2017, 9, 41916-41926.	8.0	67
2	Transition from electron accumulation to depletion at $\hat{\Gamma}^2$ -Ga ₂ O ₃ surfaces: The role of hydrogen and the charge neutrality level. APL Materials, 2019, 7, .	5.1	62
3	The role of nitrogen doping in ALD Ta ₂ O ₅ and its influence on multilevel cell switching in RRAM. Applied Physics Letters, 2017, 110, .	3.3	54
4	Low-temperature Wafer-scale Deposition of Continuous 2D SnS ₂ Films. Small, 2018, 14, e1800547.	10.0	48
5	Band Alignments, Band Gap, Core Levels, and Valence Band States in Cu ₃ BiS ₃ for Photovoltaics. ACS Applied Materials & Interfaces, 2019, 11, 27033-27047.	8.0	37
6	Enhanced switching stability in Ta ₂ O ₅ resistive RAM by fluorine doping. Applied Physics Letters, 2017, 111, .	3.3	21
7	Band alignments at Ga ₂ O ₃ heterojunction interfaces with Si and Ge. AIP Advances, 2018, 8, .	1.3	16
8	Defect limitations in Cu ₂ ZnSn(S, Se) ₄ solar cells utilizing an In ₂ S ₃ buffer layer. Journal of Applied Physics, 2020, 127, .	2.5	15
9	Chemical Control of the Dimensionality of the Octahedral Network of Solar Absorbers from the Cu ^I Ag ^I Bi ^{III} Phase Space by Synthesis of 3D CuAgBi ₅ . Inorganic Chemistry, 2021, 60, 18154-18167.	4.0	15
10	Band gap temperature-dependence and exciton-like state in copper antimony sulphide, CuSbS ₂ . APL Materials, 2018, 6, .	5.1	14
11	Schottky Diodes on ZnO Thin Films Grown by Plasma-Enhanced Atomic Layer Deposition. IEEE Transactions on Electron Devices, 2017, 64, 1225-1230.	3.0	8
12	Experimental band alignment of Ta ₂ O ₅ /GaN for MIS-HEMT applications. Microelectronic Engineering, 2017, 178, 178-181.	2.4	8
13	Properties of Transition Metal Dichalcogenides. , 2019, , 69-106.		3
14	(Invited) Band Line-up of High-k Oxides on GaN. ECS Transactions, 2020, 97, 67-81.	0.5	2