Jonathon Cottom

List of Publications by Year
in descending order

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Version: 2024-02-01

21 papers	338 citations	759233 12 h-index	888059 17 g-index
21 all docs	21 docs citations	21 times ranked	529 citing authors

#	Article	IF	Citations
1	The origin of negative charging in amorphous Al₂O₃ films: the role of native defects. Nanotechnology, 2019, 30, 205201.	2.6	68
2	Elucidating the Effect of Planar Graphitic Layers and Cylindrical Pores on the Storage and Diffusion of Li, Na, and K in Carbon Materials. Advanced Functional Materials, 2020, 30, 1908209.	14.9	49
3	Defects in Hard Carbon: Where Are They Located and How Does the Location Affect Alkaline Metal Storage?. Small, 2021, 17, e2007652.	10.0	28
4	Electrically detected magnetic resonance of carbon dangling bonds at the Si-face 4H-SiC/SiO2 interface. Journal of Applied Physics, 2018, 123, .	2.5	22
5	Computational study of the mixed B-site perovskite SmB_xCo_{1â^'x}O_{3â^'d} (B = Mn, Fe, Ni, Cu) for next generation solid oxide fuel cell cathodes. Physical Chemistry Chemical Physics, 2019, 21, 9407-9418.	2.8	20
6	Investigating the effect of edge and basal plane surface functionalisation of carbonaceous anodes for alkali metal (Li/Na/K) ion batteries. Carbon, 2021, 177, 226-243.	10.3	19
7	Elucidation of the Solid Electrolyte Interphase Formation Mechanism in Microâ€Mesoporous Hardâ€Carbon Anodes. Advanced Materials Interfaces, 2022, 9, 2101267.	3.7	18
8	Recombination defects at the 4H-SiC/SiO2 interface investigated with electrically detected magnetic resonance and ab initio calculations. Journal of Applied Physics, 2018, 124, .	2.5	17
9	An oxygen vacancy mediated Ag reduction and nucleation mechanism in SiO2 RRAM devices. Microelectronics Reliability, 2019, 98, 144-152.	1.7	16
10	Recombination centers in 4H-SiC investigated by electrically detected magnetic resonance and ab initio modeling. Journal of Applied Physics, 2016, 119, .	2.5	15
11	Filling a Niche in â€œLigand Spaceâ€•with Bulky, Electronâ€Poor Phosphorus(III) Alkoxides. Chemistry - A European Journal, 2019, 25, 2262-2271.	3.3	15
12	Effect of electric field on defect generation and migration in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">HfO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2020, 102, .	3.2	14
13	Structural, elastic, vibrational and electronic properties of amorphous Sm2O3 from Ab Initio calculations. Computational Materials Science, 2019, 169, 109119.	3.0	10
14	Combined density functional theory and molecular dynamics study of Sm_{0.75}A_{0.25}Co_{1â^'x}Mn_xO_{2.88} (A = Ca, Sr;) Tj ETQq0 0 0 rgBT /Overlo Chemical Physics, 2020, 22, 692-699.	2.8	10
15	Modeling of Diffusion and Incorporation of Interstitial Oxygen Ions at the TiN/SiO₂ Interface. ACS Applied Materials & Interfaces, 2019, 11, 36232-36243.	8.0	9
16	Identifying Performance Limiting Defects in Silicon Carbide pn-Junctions: A Theoretical Study. Materials Science Forum, 0, 858, 257-260.	0.3	2
17	First Principles Study of the Influence of the Local Steric Environment on the Incorporation and Migration of NO in a-SiO₂. Materials Science Forum, 2019, 963, 194-198.	0.3	2
18	The nature of column boundaries in micro-structured silicon oxide nanolayers. APL Materials, 2021, 9, 121107.	5.1	2

#	Article	IF	Citations
19	Theoretical Study of Ag Interactions in Amorphous Silica RRAM Devices. , 2018, , .		1
20	Evidence for an Abrupt Transition between SiO₂ and SiC from EELS and <i>Ab Initio</i> Modelling. Materials Science Forum, 0, 963, 199-203.	0.3	1
21	Elucidation of the Solid Electrolyte Interphase Formation Mechanism in Microâ€Mesoporous Hardâ€Carbon Anodes (Adv. Mater. Interfaces 8/2022). Advanced Materials Interfaces, 2022, 9, .	3.7	0