Jonathon Cottom

List of Publications by Year
in descending order

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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	Elucidation of the Solid Electrolyte Interphase Formation Mechanism in Microâ€Mesoporous Hardâ€Carbon Anodes. Advanced Materials Interfaces, 2022, 9, 2101267.	3.7	18
2	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
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	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
5	The nature of column boundaries in micro-structured silicon oxide nanolayers. APL Materials, 2021, 9, 121107.	5.1	2
6	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
7	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
8	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
9	Structural, elastic, vibrational and electronic properties of amorphous Sm2O3 from Ab Initio calculations. Computational Materials Science, 2019, 169, 109119.	3.0	10
10	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
11	An oxygen vacancy mediated Ag reduction and nucleation mechanism in SiO2 RRAM devices. Microelectronics Reliability, 2019, 98, 144-152.	1.7	16
12	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
13	The origin of negative charging in amorphous Al₂O₃ films: the role of native defects. Nanotechnology, 2019, 30, 205201.	2.6	68
14	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
15	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
16	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
17	Theoretical Study of Ag Interactions in Amorphous Silica RRAM Devices. , 2018, , .		1
18	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

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19	Recombination centers in 4H-SiC investigated by electrically detected magnetic resonance and ab initio modeling. Journal of Applied Physics, 2016, 119, .	2.5	15
20	Identifying Performance Limiting Defects in Silicon Carbide pn-Junctions: A Theoretical Study. Materials Science Forum, 0, 858, 257-260.	0.3	2
21	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