Alex Aziz

List of Publications by Year
in descending order

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23 papers	547 citations	759233 12 h-index	713466 21 g-index
23 all docs	23 docs citations	23 times ranked	1064 citing authors

#	Article	IF	Citations
1	Putting the Squeeze on Lead Iodide Perovskites: Pressure-Induced Effects To Tune Their Structural and Optoelectronic Behavior. Chemistry of Materials, 2019, 31, 4063-4071.	6.7	87
2	Porphyrin-based metal-organic frameworks for solar fuel synthesis photocatalysis: band gap tuning via iron substitutions. Journal of Materials Chemistry A, 2017, 5, 11894-11904.	10.3	84
3	Modelling a Linker Mixâ€andâ€Match Approach for Controlling the Optical Excitation Gaps and Band Alignment of Zeolitic Imidazolate Frameworks. Angewandte Chemie - International Edition, 2016, 55, 16012-16016.	13.8	61
4	Electronic structure of porphyrin-based metalâ€“organic frameworks and their suitability for solar fuel production photocatalysis. Journal of Materials Chemistry A, 2015, 3, 23458-23465.	10.3	59
5	Understanding the Enhanced Stability of Bromide Substitution in Lead Iodide Perovskites. Chemistry of Materials, 2020, 32, 400-409.	6.7	53
6	Interplay of Metal-Atom Ordering, Fermi Level Tuning, and Thermoelectric Properties in Cobalt Shandites Co₃M₂S₂ (M = Sn, In). Chemistry of Materials, 2015, 27, 3946-3956.	6.7	47
7	Ensemble-Based Modeling of the NMR Spectra of Solid Solutions: Cation Disorder in Y₂(Sn,Ti)₂O₇. Journal of the American Chemical Society, 2019, 141, 17838-17846.	13.7	29
8	Band Structures of Periodic Porphyrin Nanostructures. Journal of Physical Chemistry C, 2018, 122, 23790-23798.	3.1	21
9	Understanding the origin of disorder in kesterite-type chalcogenides A₂ZnBQ₄ (A = Cu, Ag; B = Sn, Ge; Q = S, Se): the influence of inter-layer interactions. Physical Chemistry Chemical Physics, 2019, 21, 19311-19317.	2.8	16
10	Long-term stabilization of reflective foams in sea water. RSC Advances, 2014, 4, 53028-53036.	3.6	14
11	Unraveling the Impact of Graphene Addition to Thermoelectric SrTiO₃ and La-Doped SrTiO₃ Materials: A Density Functional Theory Study. ACS Applied Materials & Interfaces, 2021, 13, 41303-41314.	8.0	14
12	Electron and phonon transport in shandite-structured<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Ni</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">Sn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 94, .	3.2	12
13	Modelling a Linker Mixâ€andâ€Match Approach for Controlling the Optical Excitation Gaps and Band Alignment of Zeolitic Imidazolate Frameworks. Angewandte Chemie, 2016, 128, 16246-16250.	2.0	12
14	Electron and phonon interactions and transport in the ultrahigh-temperature ceramic ZrC. Physical Review B, 2019, 99, .	3.2	12
15	Porous nanographene formation on Î³-alumina nanoparticles via transition-metal-free methane activation. Chemical Science, 2022, 13, 3140-3146.	7.4	8
16	Engineering the electronic and optical properties of 2D porphyrin-paddlewheel metal-organic frameworks. JPhys Energy, 2021, 3, 034005.	5.3	7
17	Structural, Electronic, and Optical Properties of the Vacancy-Ordered Bismuthâ€“Antimony Perovskites (CH3NH3)3(Bi1â€“xSbx)2I9. Journal of Physical Chemistry C, 2021, 125, 8938-8946.	3.1	5
18	Towards Tuning the Modality of Hierarchical Macro-Nanoporous Metals by Controlling the Dealloying Kinetics of Close-to-Eutectic Alloys. Physical Chemistry Chemical Physics, 2021, 23, 25388-25400.	2.8	2

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19	Understanding the solid state luminescence and piezochromic properties in polymorphs of an anthracene derivative. Physical Chemistry Chemical Physics, 2022, 24, 2832-2842.	2.8	2
20	Frontispiece: Modelling a Linker Mixâ€andâ€Match Approach for Controlling the Optical Excitation Gaps and Band Alignment of Zeolitic Imidazolate Frameworks. Angewandte Chemie - International Edition, 2016, 55, .	13.8	1
21	Modelling magnesium surfaces and their dissolution in an aqueous environment using an implicit solvent model.. Journal of Chemical Physics, 2022, 156, 174702.	3.0	1
22	Frontispiz: Modelling a Linker Mix-and-Match Approach for Controlling the Optical Excitation Gaps and Band Alignment of Zeolitic Imidazolate Frameworks. Angewandte Chemie, 2016, 128, .	2.0	0
23	Optical and Electronic Property Changes in Lead-free Perovskites by Metal Cation Transmutation. , 0, , .		0