

Christopher N Savory

List of Publications by Year in descending order

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33
papers

2,182
citations

304743

22
h-index

414414

32
g-index

33
all docs

33
docs citations

33
times ranked

3282
citing authors

#	ARTICLE	IF	CITATIONS
1	Can Pb-Free Halide Double Perovskites Support High-Efficiency Solar Cells?. ACS Energy Letters, 2016, 1, 949-955.	17.4	404
2	Beyond methylammonium lead iodide: prospects for the emergent field of ns ² -containing solar absorbers. Chemical Communications, 2017, 53, 20-44.	4.1	357
3	Vibronic Structure in Room Temperature Photoluminescence of the Halide Perovskite Cs ₃ Bi ₂ Br ₉ . Inorganic Chemistry, 2017, 56, 42-45.	4.0	129
4	(CH ₃ NH ₃) ₂ Pb(SCN) ₂ I ₂ : A More Stable Structural Motif for Hybrid Halide Photovoltaics?. Journal of Physical Chemistry Letters, 2015, 6, 4594-4598.	4.6	117
5	Exploiting Excited-State Aromaticity To Design Highly Stable Singlet Fission Materials. Journal of the American Chemical Society, 2019, 141, 13867-13876.	13.7	104
6	The complex defect chemistry of antimony selenide. Journal of Materials Chemistry A, 2019, 7, 10739-10744.	10.3	99
7	Isotype Heterojunction Solar Cells Using n-Type Sb ₂ Se ₃ Thin Films. Chemistry of Materials, 2020, 32, 2621-2630.	6.7	83
8	The vapour phase detection of explosive markers and derivatives using two fluorescent metal-organic frameworks. Journal of Materials Chemistry A, 2015, 3, 6351-6359.	10.3	69
9	Colloidal Synthesis and Optical Properties of Perovskite-Inspired Cesium Zirconium Halide Nanocrystals. , 2020, 2, 1644-1652.		69
10	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
11	Current Enhancement via a TiO ₂ Window Layer for CSS Sb ₂ Se ₃ Solar Cells: Performance Limits and High <i>V_{oc}</i> . IEEE Journal of Photovoltaics, 2019, 9, 544-551.	2.5	65
12	Identifying Raman modes of Sb ₂ Se ₃ and their symmetries using angle-resolved polarised Raman spectra. Journal of Materials Chemistry A, 2020, 8, 8337-8344.	10.3	62
13	Sensing and Discrimination of Explosives at Variable Concentrations with a Large-Pore MOF as Part of a Luminescent Array. ACS Applied Materials & Interfaces, 2019, 11, 11618-11626.	8.0	54
14	GeSe: Optical Spectroscopy and Theoretical Study of a van der Waals Solar Absorber. Chemistry of Materials, 2020, 32, 3245-3253.	6.7	48
15	Electronic and defect properties of (CH ₃ NH ₃) ₂ Pb(SCN) ₂ I ₂ analogues for photovoltaic applications. Journal of Materials Chemistry A, 2017, 5, 7845-7853.	10.3	43
16	An assessment of silver copper sulfides for photovoltaic applications: theoretical and experimental insights. Journal of Materials Chemistry A, 2016, 4, 12648-12657.	10.3	42
17	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
18	Anionic order and band gap engineering in vacancy ordered triple perovskites. Chemical Communications, 2019, 55, 3164-3167.	4.1	36

#	ARTICLE	IF	CITATIONS
19	Atypically small temperature-dependence of the direct band gap in the metastable semiconductor copper nitride Cu_3N . Physical Review B, 2017, 95, .	3.2	35
20	Exploring the $\text{PbS-Bi}_2\text{S}_3$ Series for Next Generation Energy Conversion Materials. Chemistry of Materials, 2017, 29, 5156-5167.	6.7	32
21	Chemical Trends in the Lattice Thermal Conductivity of $\text{Li}(\text{Ni, Mn, Co})\text{O}_2$ (NMC) Battery Cathodes. Chemistry of Materials, 2020, 32, 7542-7550.	6.7	28
22	Spatial Electron-hole Separation in a One Dimensional Hybrid Organic-Inorganic Lead Iodide. Scientific Reports, 2016, 6, 20626.	3.3	25
23	An experimental and theoretical study into NaSbS_2 as an emerging solar absorber. Journal of Materials Chemistry C, 2019, 7, 2059-2067.	5.5	25
24	Hidden spontaneous polarisation in the chalcogenide photovoltaic absorber $\text{Sn}_2\text{SbS}_2\text{I}_3$. Materials Horizons, 2021, 8, 2709-2716.	12.2	24
25	Descriptors for Electron and Hole Charge Carriers in Metal Oxides. Journal of Physical Chemistry Letters, 2020, 11, 438-444.	4.6	22
26	$\text{Sb } 5s^2$ lone pairs and band alignment of Sb_2Se_3 : a photoemission and density functional theory study. Journal of Materials Chemistry C, 2020, 8, 12615-12622.	5.5	19
27	Highly Anisotropic Thermal Transport in LiCoO_2 . Journal of Physical Chemistry Letters, 2019, 10, 5552-5556.	4.6	17
28	Controlling the Thermoelectric Properties of Organometallic Coordination Polymers via Ligand Design. Advanced Functional Materials, 2020, 30, 2003106.	14.9	15
29	Band gap temperature-dependence and exciton-like state in copper antimony sulphide, CuSbS_2 . APL Materials, 2018, 6, .	5.1	14
30	Experimental and First-Principles Spectroscopy of $\text{Cu}_2\text{SrSnS}_4$ and $\text{Cu}_2\text{BaSnS}_4$ Photoabsorbers. ACS Applied Materials & Interfaces, 2020, 12, 50446-50454.	8.0	13
31	Polymorph exploration of bismuth stannate using first-principles phonon mode mapping. Chemical Science, 2020, 11, 7904-7909.	7.4	11
32	Understanding the Photocatalytic Activity of $\text{La}_5\text{Ti}_2\text{AgS}_5\text{O}_7$ and $\text{La}_5\text{Ti}_2\text{CuS}_5\text{O}_7$ for Green Hydrogen Production: Computational Insights. ACS Applied Energy Materials, 2022, 5, 1992-2001.	5.1	11
33	Structure and Optical Properties of Layered Perovskite $(\text{MA})_2\text{PbI}_2\text{xBrx}(\text{SCN})_2$ ($0 \leq x < 1.6$). Inorganic Chemistry, 2020, 59, 17379-17384.	4.0	6