Benjamin A D Williamson

List of Publications by Year
in descending order

23 papers	863 citations	567281 15 h-index	642732 23 g-index
26 all docs	26 docs citations	26 times ranked	1236 citing authors

#	Article	IF	Citations
1	Elucidation of factors affecting the stability of compounds formed by isovalent substitution in layered oxychalcogenides, leading to identification of Ba₃Sc₂O₅Cu₂Se₂, Ba₃Y₂O₅Cu₂S₂, Ba₃Sc₂O₅Ag₂Se₂ and Ba₃In₂O₅Ag₂Se₂. Journal of Materials	5.5	1
2	Mesophase Transitions in [(C₂H₅)₄N][FeBrCl₃] and [(CH₃)₄N][FeBrCl₃] Ferroic Plastic Crystals. Chemistry of Materials, 2022, 34, 2585-2598.	6.7	5
3	Ligand Fieldâ€Induced Exotic Dopant for Infrared Transparent Electrode: W in Rutile SnO₂. Advanced Functional Materials, 2022, 32, .	14.9	8
4	Experimental and Theoretical Study of the Electronic Structures of Lanthanide Indium Perovskites LnInO₃. Journal of Physical Chemistry C, 2021, 125, 6387-6400.	3.1	11
5	BaBi₂O₆: A Promising n-Type Thermoelectric Oxide with the PbSb₂O₆Crystal Structure. Chemistry of Materials, 2021, 33, 7441-7456.	6.7	11
6	Resonant doping for high mobility transparent conductors: the case of Mo-doped In₂O₃. Materials Horizons, 2020, 7, 236-243.	12.2	64
7	Computationally Driven Discovery of Layered Quinary Oxychalcogenides: Potential p-Type Transparent Conductors?. Matter, 2020, 3, 759-781.	10.0	15
8	Photocatalytic, structural and optical properties of mixed anion solid solutions Ba3Sc2â^'xInxO5Cu2S2 and Ba3In2O5Cu2S2â^'ySey. Journal of Materials Chemistry A, 2020, 8, 19887-19897.	10.3	8
9	Computational prediction of the thermoelectric performance of LaZnOPn (Pn = P, As). Journal of Materials Chemistry A, 2020, 8, 7914-7924.	10.3	15
10	Resonant Ta Doping for Enhanced Mobility in Transparent Conducting SnO₂. Chemistry of Materials, 2020, 32, 1964-1973.	6.7	50
11	Enhanced Photocatalytic and Antibacterial Ability of Cu-Doped Anatase TiO₂ Thin Films: Theory and Experiment. ACS Applied Materials & Interfaces, 2020, 12, 15348-15361.	8.0	102
12	Origin of High-Efficiency Photoelectrochemical Water Splitting on Hematite/Functional Nanohybrid Metal Oxide Overlayer Photoanode after a Low Temperature Inert Gas Annealing Treatment. ACS Omega, 2019, 4, 1449-1459.	3.5	20
13	Dispelling the Myth of Passivated Codoping in TiO₂. Chemistry of Materials, 2019, 31, 2577-2589.	6.7	17
14	Chemical Vapor Deposition of Photocatalytically Active Pure Brookite TiO₂ Thin Films. Chemistry of Materials, 2018, 30, 1353-1361.	6.7	79
15	Deeper Understanding of Interstitial Boron-Doped Anatase Thin Films as A Multifunctional Layer Through Theory and Experiment. Journal of Physical Chemistry C, 2018, 122, 714-726.	3.1	16
16	Enhanced electrical properties of antimony doped tin oxide thin films deposited via aerosol assisted chemical vapour deposition. Journal of Materials Chemistry C, 2018, 6, 7257-7266.	5.5	97
17	A novel laboratory-based hard X-ray photoelectron spectroscopy system. Review of Scientific Instruments, 2018, 89, 073105.	1.3	65
18	Phosphorus doped SnO₂ thin films for transparent conducting oxide applications: synthesis, optoelectronic properties and computational models. Chemical Science, 2018, 9, 7968-7980.	7.4	33

#	Article	IF	Citations
19	Selfâ€Compensation in Transparent Conducting Fâ€Doped SnO₂. Advanced Functional Materials, 2018, 28, 1701900.	14.9	85
20	Computational and Experimental Study of Ta₂O₅ Thin Films. Journal of Physical Chemistry C, 2017, 121, 202-210.	3.1	27
21	Transparent conducting n-type ZnO:Sc â€“ synthesis, optoelectronic properties and theoretical insight. Journal of Materials Chemistry C, 2017, 5, 7585-7597.	5.5	46
22	Engineering Valence Band Dispersion for High Mobility p-Type Semiconductors. Chemistry of Materials, 2017, 29, 2402-2413.	6.7	66
23	A single-source precursor approach to solution processed indium arsenide thin films. Journal of Materials Chemistry C, 2016, 4, 6761-6768.	5.5	19