

Benjamin A D Williamson

List of Publications by Year in descending order

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23
papers

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citations

567281

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642732

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docs citations

26
times ranked

1236
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Photocatalytic and Antibacterial Ability of Cu-Doped Anatase TiO ₂ Thin Films: Theory and Experiment. ACS Applied Materials & Interfaces, 2020, 12, 15348-15361.	8.0	102
2	Enhanced electrical properties of antimony doped tin oxide thin films deposited <i>via</i> aerosol assisted chemical vapour deposition. Journal of Materials Chemistry C, 2018, 6, 7257-7266.	5.5	97
3	Self-Compensation in Transparent Conducting Doped SnO ₂ . Advanced Functional Materials, 2018, 28, 1701900.	14.9	85
4	Chemical Vapor Deposition of Photocatalytically Active Pure Brookite TiO ₂ Thin Films. Chemistry of Materials, 2018, 30, 1353-1361.	6.7	79
5	Engineering Valence Band Dispersion for High Mobility p-Type Semiconductors. Chemistry of Materials, 2017, 29, 2402-2413.	6.7	66
6	A novel laboratory-based hard X-ray photoelectron spectroscopy system. Review of Scientific Instruments, 2018, 89, 073105.	1.3	65
7	Resonant doping for high mobility transparent conductors: the case of Mo-doped In ₂ O ₃ . Materials Horizons, 2020, 7, 236-243.	12.2	64
8	Resonant Ta Doping for Enhanced Mobility in Transparent Conducting SnO ₂ . Chemistry of Materials, 2020, 32, 1964-1973.	6.7	50
9	Transparent conducting n-type ZnO:Sc ²⁺ synthesis, optoelectronic properties and theoretical insight. Journal of Materials Chemistry C, 2017, 5, 7585-7597.	5.5	46
10	Phosphorus doped SnO ₂ thin films for transparent conducting oxide applications: synthesis, optoelectronic properties and computational models. Chemical Science, 2018, 9, 7968-7980.	7.4	33
11	Computational and Experimental Study of Ta ₂ O ₅ Thin Films. Journal of Physical Chemistry C, 2017, 121, 202-210.	3.1	27
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	A single-source precursor approach to solution processed indium arsenide thin films. Journal of Materials Chemistry C, 2016, 4, 6761-6768.	5.5	19
14	Dispelling the Myth of Passivated Codoping in TiO ₂ . Chemistry of Materials, 2019, 31, 2577-2589.	6.7	17
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	Computationally Driven Discovery of Layered Quinary Oxychalcogenides: Potential p-Type Transparent Conductors?. Matter, 2020, 3, 759-781.	10.0	15
17	Computational prediction of the thermoelectric performance of LaZnOP _n (P _n = P, As). Journal of Materials Chemistry A, 2020, 8, 7914-7924.	10.3	15
18	Experimental and Theoretical Study of the Electronic Structures of Lanthanide Indium Perovskites LnInO ₃ . Journal of Physical Chemistry C, 2021, 125, 6387-6400.	3.1	11

#	ARTICLE	IF	CITATIONS
19	BaBi ₂ O ₆ : A Promising n-Type Thermoelectric Oxide with the PbSb ₂ O ₆ Crystal Structure. Chemistry of Materials, 2021, 33, 7441-7456.	6.7	11
20	Photocatalytic, structural and optical properties of mixed anion solid solutions Ba ₃ Sc ₂ xInxO ₅ Cu ₂ S ₂ and Ba ₃ In ₂ O ₅ Cu ₂ S ₂ ySe _y . Journal of Materials Chemistry A, 2020, 8, 19887-19897.	10.3	8
21	Ligand Field-Induced Exotic Dopant for Infrared Transparent Electrode: W in Rutile SnO ₂ . Advanced Functional Materials, 2022, 32, .	14.9	8
22	Mesophase Transitions in [(C ₂ H ₅) ₄ N][FeBrCl ₃] and [(CH ₃) ₄ N][FeBrCl ₃] Ferroic Plastic Crystals. Chemistry of Materials, 2022, 34, 2585-2598: the stability of compounds formed by isovalent substitution in layered oxychalcogenides, leading to identification of	6.7	5
23	Ba ₃ Sc ₂ O ₅ Cu ₂ Se ₂ , Ba ₃ Y ₂ O ₅ Cu ₂ S ₂ , Ba ₃ Sc ₂ O ₅ Ag ₂ Se ₂ and Ba ₃ In ₂ O ₅ Ag ₂ Se ₂ . Journal of Materials Ch	5.5	1