Jonathan Alaria

List of Publications by Year
in descending order

49 papers	2,047 citations	279798 23 h-index	233421 45 g-index
50 all docs	50 docs citations	50 times ranked	3511 citing authors

#	Article	IF	Citations
1	Charge-transfer ferromagnetism in oxide nanoparticles. Journal Physics D: Applied Physics, 2008, 41, 134012.	2.8	248
2	Tilt engineering of spontaneous polarization and magnetization above 300 K in a bulk layered perovskite. Science, 2015, 347, 420-424.	12.6	181
3	Designing switchable polarization and magnetization at room temperature in an oxide. Nature, 2015, 525, 363-366.	27.8	122
4	Absence of ferromagnetism in Al-doped Zn0.9Co0.10O diluted magnetic semiconductors. Applied Physics Letters, 2006, 88, 112503.	3.3	107
5	AgBiI₄ as a Lead-Free Solar Absorber with Potential Application in Photovoltaics. Chemistry of Materials, 2017, 29, 1538-1549.	6.7	102
6	No ferromagnetism in Mn doped ZnO semiconductors. Chemical Physics Letters, 2005, 415, 337-341.	2.6	92
7	Improved electrical mobility in highly epitaxial La:BaSnO3 films on SmScO3(110) substrates. Applied Physics Letters, 2014, 105, .	3.3	87
8	Pure paramagnetic behavior in Mn-doped ZnO semiconductors. Journal of Applied Physics, 2006, 99, 08M118.	2.5	80
9	Low thermal conductivity in a modular inorganic material with bonding anisotropy and mismatch. Science, 2021, 373, 1017-1022.	12.6	76
10	High Bi content GaSbBi alloys. Journal of Applied Physics, 2014, 116, .	2.5	70
11	Band gap temperature-dependence of close-space sublimation grown Sb2Se3 by photo-reflectance. APL Materials, 2018, 6, 084901.	5.1	70
12	Conventional and inverse magnetocaloric effects in La0.45Sr0.55MnO3 nanoparticles. Journal of Applied Physics, 2011, 110, .	2.5	62
13	Interface control by chemical and dimensional matching in an oxide heterostructure. Nature Chemistry, 2016, 8, 347-353.	13.6	53
14	Phonon-glass electron-crystal behaviour by A site disorder in n-type thermoelectric oxides. Energy and Environmental Science, 2017, 10, 1917-1922.	30.8	52
15	The Origin of the Magnetism of Etched Silicon. Advanced Materials, 2009, 21, 71-74.	21.0	50
16	Magnetic Properties of Low-Dimensional Î± and Î³ CoV₂O₆. Journal of Physical Chemistry C, 2011, 115, 17190-17196.	3.1	48
17	Bi-induced band gap reduction in epitaxial InSbBi alloys. Applied Physics Letters, 2014, 105, .	3.3	48
18	GeSe: Optical Spectroscopy and Theoretical Study of a van der Waals Solar Absorber. Chemistry of Materials, 2020, 32, 3245-3253.	6.7	48

#	Article	IF	Citations
19	Electronic structure of ground and field-induced ordered states of low-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>-CoV<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /></mml:msub></mml:math>	3.2	36
20	Engineered spatial inversion symmetry breaking in an oxide heterostructure built from isosymmetric room-temperature magnetically ordered components. Chemical Science, 2014, 5, 1599-1610.	7.4	30
21	Chemical Control of Correlated Metals as Transparent Conductors. Advanced Functional Materials, 2019, 29, 1808609.	14.9	30
22	Modular Design via Multiple Anion Chemistry of the High Mobility van der Waals Semiconductor Bi₄O₄SeCl₂. Journal of the American Chemical Society, 2020, 142, 847-856.	13.7	29
23	Magnetoresistance of CuCrO₂-based delafossite films. Journal of Physics: Conference Series, 2010, 200, 052021.	0.4	27
24	Structural and magnetic properties of wurtzite CoO thin films. Journal Physics D: Applied Physics, 2008, 41, 135004.	2.8	23
25	Magnetism of ZnO nanoparticles doped with 3d cations prepared by a solvothermal method. Journal of Applied Physics, 2008, 103, 07D123.	2.5	22
26	Magnetic and structural properties of Co-doped ZnO thin films. Journal of Magnetism and Magnetic Materials, 2007, 310, 2087-2088.	2.3	18
27	Controlling Phase Assemblage in a Complex Multiâ€Cation System: Phaseâ€Pure Room Temperature Multiferroic (1â^'x)BiTi_{(1â^'}_y_{)/2}Fe_yMg_{(1â^'}_y Advanced Functional Materials, 2016, 26, 2523-2531.	14.9	17
28	Bi₄O₄Cu_{1.7}Se_{2.7}Cl_{0.3}: Intergrowth of BiOCuSe and Bi₂O₂Se Stabilized by the Addition of a Third Anion. Journal of the American Chemical Society, 2017, 139, 15568-15571.	13.7	17
29	A and B site doping of a phonon-glass perovskite oxide thermoelectric. Journal of Materials Chemistry A, 2018, 6, 15640-15652.	10.3	17
30	Growth of M-type hexaferrite thin films with conical magnetic structure. Applied Physics Letters, 2013, 102, 032902.	3.3	16
31	Bi_{2+2n}O_{2+2n}Cu_{2â^'Î´}Se_{2+nâ€“Î´}X_{Î´} (X = Cl, Br): A Three-Anion Homologous Series. Inorganic Chemistry, 2018, 57, 12489-12500.	4.0	15
32	Weyl-like points from band inversions of spin-polarised surface states in NbGeSb. Nature Communications, 2019, 10, 5485.	12.8	14
33	Structure determination and crystal chemistry of large repeat mixed-layer hexaferrites. IUCrJ, 2018, 5, 681-698.	2.2	14
34	Discovery of a Low Thermal Conductivity Oxide Guided by Probe Structure Prediction and Machine Learning. Angewandte Chemie - International Edition, 2021, 60, 16457-16465.	13.8	13
35	Epitaxial growth and enhanced conductivity of an IT-SOFC cathode based on a complex perovskite superstructure with six distinct cation sites. Chemical Science, 2013, 4, 2403.	7.4	12
36	Substitution of Re⁷⁺ into CaMnO₃: an efficient free electron generation dopant for tuning of thermoelectric properties. Physical Chemistry Chemical Physics, 2017, 19, 30781-30789.	2.8	12

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37	Sn 5s2 lone pairs and the electronic structure of tin sulphides: A photoreflectance, high-energy photoemission, and theoretical investigation. Physical Review Materials, 2020, 4, .	2.4	11
38	Growth and Magnetic Properties of La_{2/3}Sr_{1/3}MnO₃/Ca₃Co₂O₆ Bilayers. Journal of Physical Chemistry C, 2010, 114, 1684-1688.	3.1	9
39	Band gap reduction in InNxSb1-x alloys: Optical absorption, k Â· P modeling, and density functional theory. Applied Physics Letters, 2016, 109, .	3.3	9
40	Persistence of Ferroelectricity Close to Unit-Cell Thickness in Structurally Disordered Aurivillius Phases. Chemistry of Materials, 2020, 32, 10511-10523.	6.7	9
41	One Site, Two Cations, Three Environments: s² and s⁰ Electronic Configurations Generate Pb-Free Relaxor Behavior in a Perovskite Oxide. Journal of the American Chemical Society, 2021, 143, 1386-1398.	13.7	9
42	Chemically Controllable Magnetic Transition Temperature and Magnetoâ€Elastic Coupling in MnZnSb Compounds. Advanced Functional Materials, 2021, 31, 2100108.	14.9	9
43	Mode Crystallography Analysis through the Structural Phase Transition and Magnetic Critical Behavior of the Lacunar Spinel GaMo₄Se₈. Chemistry of Materials, 2021, 33, 5718-5729.	6.7	8
44	Band Structure Engineering of Bi₄O₄SeCl₂ for Thermoelectric Applications. ACS Organic & Inorganic Au, 2022, 2, 405-414.	4.0	7
45	Computational Prediction and Experimental Realization of p-Type Carriers in the Wide-Band-Gap Oxide SrZn_{1â€“x}Li_xO₂. Inorganic Chemistry, 2018, 57, 11874-11883.	4.0	6
46	Growth and Characterisation of Al1-xCrxN Thin Films by RF Plasma Assisted Pulsed Laser Deposition. E-Journal of Surface Science and Nanotechnology, 2009, 7, 497-502.	0.4	5
47	High field magnetotransport and point contact Andreev reflection measurements on CuCr2Se4 and CuCr2Se3Brâ€”Degenerate magnetic semiconductor single crystals. Journal of Applied Physics, 2014, 115, 17C717.	2.5	4
48	Expanding multiple anion superlattice chemistry: Synthesis, structure and properties of Bi4O4SeBr2 and Bi6O6Se2Cl2. Journal of Solid State Chemistry, 2022, 312, 123246.	2.9	3
49	Discovery of a Low Thermal Conductivity Oxide Guided by Probe Structure Prediction and Machine Learning. Angewandte Chemie, 2021, 133, 16593-16601.	2.0	0