

John Buckeridge

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50 papers	3,133 citations	24 h-index	53 g-index
53 ext. papers	3,562 ext. citations	6.1 avg, IF	5.14 L-index

#	Paper	IF	Citations
50	BaBi ₂ O ₆ : A Promising n-Type Thermoelectric Oxide with the PbSb ₂ O ₆ Crystal Structure. <i>Chemistry of Materials</i> , 2021 , 33, 7441-7456	9.6	2
49	The Interplay of Interstitial and Substitutional Copper in Zinc Oxide.. <i>Frontiers in Chemistry</i> , 2021 , 9, 780935	9.5	0
48	Enhanced Photocatalytic and Antibacterial Ability of Cu-Doped Anatase TiO Thin Films: Theory and Experiment. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15348-15361	9.5	49
47	Identifying Raman modes of Sb ₂ Se ₃ and their symmetries using angle-resolved polarised Raman spectra. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8337-8344	13	25
46	Donor and acceptor characteristics of native point defects in GaN. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 335104	3	28
45	Dispelling the Myth of Passivated Codoping in TiO. <i>Chemistry of Materials</i> , 2019 , 31, 2577-2589	9.6	12
44	Intrinsic point defects and the n- and p-type dopability of the narrow gap semiconductors GaSb and InSb. <i>Physical Review B</i> , 2019 , 100,	3.3	8
43	Equilibrium point defect and charge carrier concentrations in a material determined through calculation of the self-consistent Fermi energy. <i>Computer Physics Communications</i> , 2019 , 244, 329-342	4.2	22
42	Electronic band structure and optical properties of boron arsenide. <i>Physical Review Materials</i> , 2019 , 3,	3.2	8
41	Thermodynamically accessible titanium clusters Ti _N , N = 2-32. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 13962-13973	3.6	10
40	Deep vs shallow nature of oxygen vacancies and consequent n-type carrier concentrations in transparent conducting oxides. <i>Physical Review Materials</i> , 2018 , 2,	3.2	46
39	Defect formation in In ₂ O ₃ and SnO ₂ : a new atomistic approach based on accurate lattice energies. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12386-12395	7.1	28
38	Oxidation states and ionicity. <i>Nature Materials</i> , 2018 , 17, 958-964	27	91
37	Defect Engineering of Earth-Abundant Solar Absorbers BiSI and BiSeI. <i>Chemistry of Materials</i> , 2018 , 30, 3827-3835	9.6	39
36	Prediction of multiband luminescence due to the gallium vacancyoxygen defect complex in GaN. <i>Applied Physics Letters</i> , 2018 , 112, 262104	3.4	15
35	Heterostructures of GaN with SiC and ZnO enhance carrier stability and separation in framework semiconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1600440	1.6	6
34	Electron Counting in Solids: Oxidation States, Partial Charges, and Ionicity. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2074-2075	6.4	50

33	Demonstration of the donor characteristics of Si and O defects in GaN using hybrid QM/MM. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1600445	1.6	9
32	Screening Divalent Metals for A- and B-Site Dopants in LaFeO ₃ . <i>Chemistry of Materials</i> , 2017 , 29, 8147-8157	3.7	37
31	Quantum Mechanical/Molecular Mechanical (QM/MM) Approaches 2017 , 647-680		3
30	Engineering Valence Band Dispersion for High Mobility p-Type Semiconductors. <i>Chemistry of Materials</i> , 2017 , 29, 2402-2413	9.6	47
29	Vibronic Structure in Room Temperature Photoluminescence of the Halide Perovskite CsBiBr ₃ . <i>Inorganic Chemistry</i> , 2017 , 56, 42-45	5.1	95
28	Anharmonicity in the High-Temperature Cmcm Phase of SnSe: Soft Modes and Three-Phonon Interactions. <i>Physical Review Letters</i> , 2016 , 117, 075502	7.4	104
27	Efficient and accurate approach to modeling the microstructure and defect properties of LaCoO ₃ . <i>Physical Review B</i> , 2016 , 93,	3.3	13
26	Defects and Oxide Ion Migration in the Solid Oxide Fuel Cell Cathode Material LaFeO ₃ . <i>Chemistry of Materials</i> , 2016 , 28, 8210-8220	9.6	79
25	Bulk electronic, elastic, structural, and dielectric properties of the Weyl semimetal TaAs. <i>Physical Review B</i> , 2016 , 93,	3.3	33
24	One-Dimensional Nanosystems. <i>Series in Materials Science and Engineering</i> , 2016 , 47-81		1
23	Nonstoichiometry and Weyl fermionic behavior in TaAs. <i>Physical Review B</i> , 2016 , 94,	3.3	16
22	Band gap reduction in In _N Sb _{1-x} alloys: Optical absorption, k · P modeling, and density functional theory. <i>Applied Physics Letters</i> , 2016 , 109, 132104	3.4	9
21	Single Step Solution Processed GaAs Thin Films from GaMe ₃ and tBuAsH ₂ under Ambient Pressure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 7013-7019	3.8	10
20	Polymorph Engineering of TiO ₂ : Demonstrating How Absolute Reference Potentials Are Determined by Local Coordination. <i>Chemistry of Materials</i> , 2015 , 27, 3844-3851	9.6	92
19	Buckeridge et al. Reply. <i>Physical Review Letters</i> , 2015 , 115, 029702	7.4	5
18	Band energy control of molybdenum oxide by surface hydration. <i>Applied Physics Letters</i> , 2015 , 107, 231605	3.4	23
17	Morphological Features and Band Bending at Nonpolar Surfaces of ZnO. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11598-11611	3.8	27
16	Determination of the nitrogen vacancy as a shallow compensating center in GaN doped with divalent metals. <i>Physical Review Letters</i> , 2015 , 114, 016405	7.4	58

15	Crystal electron binding energy and surface work function control of tin dioxide. <i>Physical Review B</i> , 2014 , 89,	3.3	42
14	N incorporation and associated localized vibrational modes in GaSb. <i>Physical Review B</i> , 2014 , 89,	3.3	12
13	Double bubbles: a new structural motif for enhanced electron-hole separation in solids. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21098-105	3.6	10
12	Understanding doping anomalies in degenerate p-type semiconductor LaCuOSe. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3429-3438	7.1	45
11	From Stable ZnO and GaN Clusters to Novel Double Bubbles and Frameworks. <i>Inorganics</i> , 2014 , 2, 248-263	6.3	10
10	Automated procedure to determine the thermodynamic stability of a material and the range of chemical potentials necessary for its formation relative to competing phases and compounds. <i>Computer Physics Communications</i> , 2014 , 185, 330-338	4.2	58
9	Limits to Doping of Wide Band Gap Semiconductors. <i>Chemistry of Materials</i> , 2013 , 25, 2924-2926	9.6	45
8	Band alignment of rutile and anatase TiO ₂ . <i>Nature Materials</i> , 2013 , 12, 798-801	27	1656
7	Dynamical response and instability in ceria under lattice expansion. <i>Physical Review B</i> , 2013 , 87,	3.3	38
6	Growth and properties of GaSbBi alloys. <i>Applied Physics Letters</i> , 2013 , 103, 142106	3.4	78
5	One-dimensional embedded cluster approach to modeling CdS nanowires. <i>Journal of Chemical Physics</i> , 2013 , 139, 124101	3.9	6
4	Mobility in gated GaN _x As _{1-x} heterostructures as a probe of nitrogen-related electronic states. <i>Physical Review B</i> , 2011 , 84,	3.3	7
3	Nitrogen composition dependence of electron effective mass in GaAs _{1-x} N _x . <i>Physical Review B</i> , 2010 , 82,	3.3	18
2	Vibrational signature of the Si _N defect in Si-doped GaN _x As _{1-x} . <i>Solid State Communications</i> , 2010 , 150, 1967-1970	1.6	3
1	Vibrational mode shifts as a measure of local strain in the dilute nitride semiconductor alloy GaN _x As _{1-x} . <i>Physical Review B</i> , 2009 , 79,	3.3	3