

Robert F Berger

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,160
citations

567281

15
h-index

752698

20
g-index

22
all docs

22
docs citations

22
times ranked

2419
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal nonequilibrium of strained black CsPbI ₃ thin films. <i>Science</i> , 2019, 365, 679-684.	12.6	444
2	Understanding Trends in CO ₂ Adsorption in Metal-Organic Frameworks with Open-Metal Sites. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 861-865.	4.6	139
3	Strain Tuning of Tin-Halide and Lead-Halide Perovskites: A First-Principles Atomic and Electronic Structure Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22832-22837.	3.1	129
4	Band Gap and Edge Engineering via Ferroic Distortion and Anisotropic Strain: The Case of SrTiO_3 . <i>Physical Review Letters</i> , 2011, 107, 146804.	7.8	124
5	Effect of reduced dimensionality on the optical band gap of SrTiO ₃ . <i>Applied Physics Letters</i> , 2013, 102, .	3.3	52
6	Connecting the Chemical and Physical Viewpoints of What Determines Structure: From 1-D Chains to β -Brasses. <i>Chemical Reviews</i> , 2011, 111, 4522-4545.	47.7	50
7	Tuning the near-gap electronic structure of tin-halide and lead-halide perovskites via changes in atomic layering. <i>Physical Review B</i> , 2014, 90, .	3.2	39
8	Design Principles for the Atomic and Electronic Structure of Halide Perovskite Photovoltaic Materials: Insights from Computation. <i>Chemistry - A European Journal</i> , 2018, 24, 8708-8716.	3.3	26
9	The Mystery of Perpendicular Fivefold Axes and the Fourth Dimension in Intermetallic Structures. <i>Chemistry - A European Journal</i> , 2008, 14, 3908-3930.	3.3	24
10	Square planar Cu(<i>scpd</i>) stabilized by a pyridinediimine ligand. <i>Chemical Communications</i> , 2016, 52, 4156-4159.	4.1	22
11	A Quantum Mechanically Guided View of Mg ₄₄ Rh ₇ . <i>Chemistry - A European Journal</i> , 2007, 13, 7852-7863.	3.3	20
12	Tolerance Factors Revisited: Geometrically Designing the Ideal Environment for Perovskite Dopants. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23293-23298.	3.1	20
13	Zigzag Inversion Domain Boundaries in Indium Zinc Oxide-Based Nanowires: Structure and Formation. <i>ACS Nano</i> , 2013, 7, 10747-10751.	14.6	19
14	Probing the Protonation State and the Redox-Active Sites of Pendant Base Iron(II) and Zinc(II) Pyridinediimine Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 7239-7248.	4.0	17
15	Laves Phases, β -Brass, and $2\bar{A}-2\bar{A}-2$ Superstructures: A New Class of Quasicrystal Approximants and the Suggestion of a New Quasicrystal. <i>Chemistry - A European Journal</i> , 2008, 14, 6627-6639.	3.3	16
16	Tuning the Band Gaps of Oxide and Halide Perovskite Compounds via Biaxial Strain in All Directions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25951-25958.	3.1	6
17	Tuning the electronic structure of dO perovskite oxides by combining distortive modes. <i>Physical Review B</i> , 2021, 103, .		
18	Binding maps for the study and prediction of bimetallic catalyst surface reactions: The case of methanol oxidation. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25606.	2.0	3

#	ARTICLE	IF	CITATIONS
19	Calibrating the Extended Hückel Method to Quantitatively Screen the Electronic Properties of Materials. Scientific Reports, 2018, 8, 10530.	3.3	3
20	Confluence of structural distortion and A -site composition in the band gaps of perovskite niobate and tantalate photocatalysts. Physical Review B, 2019, 100, .	3.2	3
21	Frontispiece: Design Principles for the Atomic and Electronic Structure of Halide Perovskite Photovoltaic Materials: Insights from Computation. Chemistry - A European Journal, 2018, 24, .	3.3	0
22	Electronic structure of oxide and halide perovskites. , 2022, , .		0