Robert F Berger

List of Publications by Year
in descending order

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	Electronic structure of oxide and halide perovskites. , 2022, , .		0
2	Tuning the electronic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>d</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:m perovskite oxides by combining distortive modes. Physical Review B, 2021, 103, .	3.2	4
3	Tuning the Band Gaps of Oxide and Halide Perovskite Compounds via Biaxial Strain in All Directions. Journal of Physical Chemistry C, 2021, 125, 25951-25958.	3.1	6
4	Confluence of structural distortion and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi></mml:math> -site composition in the band gaps of perovskite niobate and tantalate photocatalysts. Physical Review B, 2019, 100, .	3.2	3
5	Thermal unequilibrium of strained black CsPbI ₃ thin films. Science, 2019, 365, 679-684.	12.6	444
6	Binding maps for the study and prediction of bimetallic catalyst surface reactions: The case of methanol oxidation. International Journal of Quantum Chemistry, 2018, 118, e25606.	2.0	3
7	Design Principles for the Atomic and Electronic Structure of Halide Perovskite Photovoltaic Materials: Insights from Computation. Chemistry - A European Journal, 2018, 24, 8708-8716.	3.3	26
8	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
9	Calibrating the Extended HÃ¼ckel Method to Quantitatively Screen the Electronic Properties of Materials. Scientific Reports, 2018, 8, 10530.	3.3	3
10	Tolerance Factors Revisited: Geometrically Designing the Ideal Environment for Perovskite Dopants. Journal of Physical Chemistry C, 2016, 120, 23293-23298.	3.1	20
11	Square planar Cu(<scp>i</scp>) stabilized by a pyridinediimine ligand. Chemical Communications, 2016, 52, 4156-4159.	4.1	22
12	Probing the Protonation State and the Redox-Active Sites of Pendant Base Iron(II) and Zinc(II) Pyridinediimine Complexes. Inorganic Chemistry, 2015, 54, 7239-7248.	4.0	17
13	Strain Tuning of Tinâ€“Halide and Leadâ€“Halide Perovskites: A First-Principles Atomic and Electronic Structure Study. Journal of Physical Chemistry C, 2015, 119, 22832-22837.	3.1	129
14	Tuning the near-gap electronic structure of tin-halide and lead-halide perovskites via changes in atomic layering. Physical Review B, 2014, 90, .	3.2	39
15	Understanding Trends in CO₂ Adsorption in Metalâ€“Organic Frameworks with Open-Metal Sites. Journal of Physical Chemistry Letters, 2014, 5, 861-865.	4.6	139
16	Zigzag Inversion Domain Boundaries in Indium Zinc Oxide-Based Nanowires: Structure and Formation. ACS Nano, 2013, 7, 10747-10751.	14.6	19
17	Effect of reduced dimensionality on the optical band gap of SrTiO3. Applied Physics Letters, 2013, 102, .	3.3	52
18	Connecting the Chemical and Physical Viewpoints of What Determines Structure: From 1-D Chains to Î³-Brasses. Chemical Reviews, 2011, 111, 4522-4545.	47.7	50

#	Article	IF	Citations
19	Band Gap and Edge Engineering via Ferroic Distortion and Anisotropic Strain: The Case of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2011, 107, 146804.	7.8	124
20	The Mystery of Perpendicular Fivefold Axes and the Fourth Dimension in Intermetallic Structures. Chemistry - A European Journal, 2008, 14, 3908-3930.	3.3	24
21	Laves Phases, Î³â€Brass, and 2Ã—2Ã—2 Superstructures: A New Class of Quasicrystal Approximants and the Suggestion of a New Quasicrystal. Chemistry - A European Journal, 2008, 14, 6627-6639.	3.3	16
22	A Quantum Mechanically Guided View of Mg₄₄Rh₇. Chemistry - A European Journal, 2007, 13, 7852-7863.	3.3	20