Joshua Young

List of Publications by Year
in descending order

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38	3,640	304368	301761
papers	citations	22 h-index	39 g-index

44	44	44	4960
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ruddlesdenâ€“Popper Hybrid Lead Iodide Perovskite 2D Homologous Semiconductors. Chemistry of Materials, 2016, 28, 2852-2867.	3.2	1,607
2	Design and Synthesis of the Berylliumâ€Free Deepâ€Ultraviolet Nonlinear Optical Material Ba₃(ZnB₅O₁₀)PO₄. Advanced Materials, 2015, 27, 7380-7385.	11.1	262
3	Pb₂Ba₃(BO₃)₃Cl: A Material with Large SHG Enhancement Activated by Pb-Chelated BO₃ Groups. Journal of the American Chemical Society, 2015, 137, 9417-9422.	6.6	255
4	Mixed-Metal Carbonate Fluorides as Deep-Ultraviolet Nonlinear Optical Materials. Journal of the American Chemical Society, 2017, 139, 1285-1295.	6.6	195
5	M₄Mg₄(P₂O₇)₃ (M = K, Rb): Structural Engineering of Pyrophosphates for Nonlinear Optical Applications. Chemistry of Materials, 2017, 29, 1845-1855.	3.2	187
6	Bidenticity-Enhanced Second Harmonic Generation from Pb Chelation in Pb₃Mg₃TeP₂O₁₄. Journal of the American Chemical Society, 2016, 138, 88-91.	6.6	143
7	Electronic, Crystal Chemistry, and Nonlinear Optical Property Relationships in the Dugganite A₃B₃CD₂O₁₄ Family. Journal of the American Chemical Society, 2016, 138, 4984-4989.	6.6	118
8	Octahedral Rotation Preferences in Perovskite Iodides and Bromides. Journal of Physical Chemistry Letters, 2016, 7, 918-922.	2.1	115
9	Learning from data to design functional materials without inversion symmetry. Nature Communications, 2017, 8, 14282.	5.8	76
10	Density Functional Theory Modeling of MnO₂ Polymorphs as Cathodes for Multivalent Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 8788-8795.	1.5	70
11	The Nextâ€Generation of Nonlinear Optical Materials: Rb₃Ba₃Li₂Al₄B₆O₂₀Fâ€”Synthesis, Characterization, and Crystal Growth. Advanced Optical Materials, 2017, 5, 1700840.	3.6	68
12	Crystal structure and electronic properties of bulk and thin film brownmillerite oxides. Physical Review B, 2015, 92, .	1.1	67
13	Anharmonic lattice interactions in improper ferroelectrics for multiferroic design. Journal of Physics Condensed Matter, 2015, 27, 283202.	0.7	57
14	Atomic Scale Design of Polar Perovskite Oxides without Second-Order Jahnâ€“Teller Ions. Chemistry of Materials, 2013, 25, 4545-4550.	3.2	41
15	Interplay of Cation Ordering and Ferroelectricity in Perovskite Tin Iodides: Designing a Polar Halide Perovskite for Photovoltaic Applications. Inorganic Chemistry, 2017, 56, 26-32.	1.9	37
16	Comparative Study of Ethylene Carbonate-Based Electrolyte Decomposition at Li, Ca, and Al Anode Interfaces. ACS Applied Energy Materials, 2019, 2, 1676-1684.	2.5	36
17	Polar Oxides without Inversion Symmetry through Vacancy and Chemical Order. Journal of the American Chemical Society, 2017, 139, 2833-2841.	6.6	34
18	Photocatalytically reductive defluorination of perfluorooctanoic acid (PFOA) using Pt/La2Ti2O7 nanoplates: Experimental and DFT assessment. Journal of Hazardous Materials, 2021, 419, 126452.	6.5	32

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19	Ba₄B₈TeO₁₉: A UV Nonlinear Optical Material. Inorganic Chemistry, 2018, 57, 4771-4776.	1.9	31
20	Tuning the ferroelectric polarization in AAâ€²MnWO₆ double perovskites through A cation substitution. Dalton Transactions, 2015, 44, 10644-10653.	1.6	29
21	Ethylene Carbonate-Based Electrolyte Decomposition and Solidâ€“Electrolyte Interphase Formation on Ca Metal Anodes. Journal of Physical Chemistry Letters, 2018, 9, 3295-3300.	2.1	29
22	Design of noncentrosymmetric perovskites from centric and acentric basic building units. Journal of Materials Chemistry C, 2016, 4, 4016-4027.	2.7	27
23	Improper ferroelectricity and piezoelectric responses in rhombohedral (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>B</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>) perovskite oxides. Physical Review B, 2014, 89, .	1.1	20
24	Controlling the H to Tâ€² structural phase transitionviachalcogen substitution in MoTe₂monolayers. Physical Chemistry Chemical Physics, 2017, 19, 31874-31882.	1.3	19
25	N8 stabilized single-atom Pd for highly selective hydrogenation of acetylene. Journal of Catalysis, 2021, 395, 46-53.	3.1	16
26	Ab initio investigation of the elastic properties of bismuth-based alloys. Physical Review B, 2019, 100, .	1.1	15
27	Valley phenomena in the candidate phase change material WSe2(1-x)Te2x. Communications Physics, 2020, 3, .	2.0	10
28	Preventing Electrolyte Decomposition on a Ca Metal Electrode Interface Using an Artificial Solidâ€Electrolyte Interphase. Advanced Theory and Simulations, 2021, 4, 2100018.	1.3	7
29	Inducing spontaneous electric polarizations in double perovskite iodide superlattices for ferroelectric photovoltaic materials. Physical Review Materials, 2018, 2, .	0.9	7
30	Effect of single atom Platinum (Pt) doping and facet dependent on the electronic structure and light absorption of Lanthanum Titanium Oxide (La2Ti2O7): A Density Functional Theory study. Surface Science, 2022, 715, 121949.	0.8	5
31	Ab initio investigation of the temperature-dependent elastic properties of Bi, Te and Cu. Journal of Physics Condensed Matter, 2020, 32, 485902.	0.7	5
32	Synthesis and Stabilization of Cubic Gauche Polynitrogen under Radio-Frequency Plasma. Chemistry of Materials, 2022, 34, 4712-4720.	3.2	5
33	Effect of chemical substitution and external strain on phase stability and ferroelectricity in two dimensional M₂CT₂ MXenes. Nanoscale, 2022, , .	2.8	4
34	Optical Materials: Design and Synthesis of the Berylliumâ€Free Deepâ€Ultraviolet Nonlinear Optical Material Ba₃(ZnB₅O₁₀)PO₄ (Adv. Mater. 45/2015). Advanced Materials, 2015, 27, 7379-7379.	11.1	3
35	Rational Synthesis of Polymeric Nitrogen N₈^{â€“} with Ultraviolet Irradiation and Its Oxygen Reduction Reaction Mechanism Study with In Situ Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. ACS Catalysis, 2021, 11, 13034-13040.	5.5	3
36	Computational investigation of enhanced properties in functionalized carbon nanotube doped polyvinyl alcohol gel electrolyte systems. Physical Chemistry Chemical Physics, 2021, 23, 21286-21294.	1.3	2

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37	A practical way to enhance the synthesis of N8â˜† from an N3â˜† precursor, studied by both computational and experimental methods. Physical Chemistry Chemical Physics, 2021, 23, 15713-15718.	1.3	1
38	Valley phenomena in the candidate phase change material WSeTe. Communications Physics, 2020, 3, .	2.0	1