

# Joshua Young

## List of Publications by Citations

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36  
papers

2,654  
citations

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h-index

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g-index

44  
ext. papers

3,160  
ext. citations

8.3  
avg, IF

5.45  
L-index

#	Paper	IF	Citations
36	Ruddlesden-Popper Hybrid Lead Iodide Perovskite 2D Homologous Semiconductors. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 2852-2867	9.6	1166
35	Pb <sub>2</sub> Ba <sub>3</sub> (BO <sub>3</sub> ) <sub>3</sub> Cl: A Material with Large SHG Enhancement Activated by Pb-Chelated BO <sub>3</sub> Groups. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 9417-22	16.4	220
34	Design and Synthesis of the Beryllium-Free Deep-Ultraviolet Nonlinear Optical Material Ba <sub>2</sub> (ZnBO <sub>3</sub> ) <sub>2</sub> PO <sub>4</sub> . <i>Advanced Materials</i> , <b>2015</b> , 27, 7380-5	24	208
33	Mixed-Metal Carbonate Fluorides as Deep-Ultraviolet Nonlinear Optical Materials. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1285-1295	16.4	130
32	M <sub>4</sub> Mg <sub>4</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>3</sub> (M = K, Rb): Structural Engineering of Pyrophosphates for Nonlinear Optical Applications. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1845-1855	9.6	121
31	Bidenticity-Enhanced Second Harmonic Generation from Pb Chelation in Pb <sub>3</sub> Mg <sub>3</sub> TeP <sub>2</sub> O <sub>14</sub> . <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 88-91	16.4	112
30	Electronic, Crystal Chemistry, and Nonlinear Optical Property Relationships in the Dugganite A <sub>3</sub> B <sub>3</sub> CD <sub>2</sub> O <sub>14</sub> Family. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 4984-9	16.4	89
29	Octahedral Rotation Preferences in Perovskite Iodides and Bromides. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 918-22	6.4	84
28	Learning from data to design functional materials without inversion symmetry. <i>Nature Communications</i> , <b>2017</b> , 8, 14282	17.4	55
27	Crystal structure and electronic properties of bulk and thin film brownmillerite oxides. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	53
26	The Next-Generation of Nonlinear Optical Materials: Rb <sub>3</sub> Ba <sub>3</sub> Li <sub>2</sub> Al <sub>4</sub> B <sub>6</sub> O <sub>20</sub> F <sub>8</sub> Synthesis, Characterization, and Crystal Growth. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700840	8.1	52
25	Density Functional Theory Modeling of MnO <sub>2</sub> Polymorphs as Cathodes for Multivalent Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8788-8795	3.8	48
24	Anharmonic lattice interactions in improper ferroelectrics for multiferroic design. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 283202	1.8	44
23	Atomic Scale Design of Polar Perovskite Oxides without Second-Order Jahn-Teller Ions. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4545-4550	9.6	39
22	Polar Oxides without Inversion Symmetry through Vacancy and Chemical Order. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 2833-2841	16.4	27
21	Interplay of Cation Ordering and Ferroelectricity in Perovskite Tin Iodides: Designing a Polar Halide Perovskite for Photovoltaic Applications. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 26-32	5.1	27
20	Tuning the ferroelectric polarization in A <sub>2</sub> MnWO <sub>6</sub> double perovskites through A cation substitution. <i>Dalton Transactions</i> , <b>2015</b> , 44, 10644-53	4.3	25

19	Design of noncentrosymmetric perovskites from centric and acentric basic building units. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 4016-4027	7.1	25
18	BaBTeO: A UV Nonlinear Optical Material. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 4771-4776	5.1	23
17	Ethylene Carbonate-Based Electrolyte Decomposition and Solid-Electrolyte Interphase Formation on Ca Metal Anodes. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3295-3300	6.4	21
16	Comparative Study of Ethylene Carbonate-Based Electrolyte Decomposition at Li, Ca, and Al Anode Interfaces. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1676-1684	6.1	19
15	Improper ferroelectricity and piezoelectric responses in rhombohedral (A,A')B <sub>2</sub> O <sub>6</sub> perovskite oxides. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	16
14	Controlling the H to T structural phase transition via chalcogen substitution in MoTe monolayers. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 31874-31882	3.6	12
13	Ab initio investigation of the elastic properties of bismuth-based alloys. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	8
12	N <sub>8</sub> stabilized single-atom Pd for highly selective hydrogenation of acetylene. <i>Journal of Catalysis</i> , <b>2021</b> , 395, 46-53	7.3	6
11	Photocatalytically reductive defluorination of perfluorooctanoic acid (PFOA) using Pt/LaTiO nanoplates: Experimental and DFT assessment. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 419, 126452	12.8	6
10	Inducing spontaneous electric polarizations in double perovskite iodide superlattices for ferroelectric photovoltaic materials. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	5
9	Valley phenomena in the candidate phase change material WSe <sub>2</sub> (1-x)Te <sub>2x</sub> . <i>Communications Physics</i> , <b>2020</b> , 3,	5.4	3
8	Optical Materials: Design and Synthesis of the Beryllium-Free Deep-Ultraviolet Nonlinear Optical Material Ba <sub>3</sub> (ZnB <sub>5</sub> O <sub>10</sub> )PO <sub>4</sub> (Adv. Mater. 45/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 7379-7379	24	3
7	Ab initio investigation of the temperature-dependent elastic properties of Bi, Te and Cu. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 485902	1.8	2
6	Preventing Electrolyte Decomposition on a Ca Metal Electrode Interface Using an Artificial Solid-Electrolyte Interphase. <i>Advanced Theory and Simulations</i> , <b>2021</b> , 4, 2100018	3.5	2
5	Valley phenomena in the candidate phase change material WSeTe. <i>Communications Physics</i> , <b>2020</b> , 3,	5.4	1
4	Rational Synthesis of Polymeric Nitrogen N <sub>8</sub> with Ultraviolet Irradiation and Its Oxygen Reduction Reaction Mechanism Study with In Situ Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. <i>ACS Catalysis</i> , 13034-13040	13.1	1
3	Computational investigation of enhanced properties in functionalized carbon nanotube doped polyvinyl alcohol gel electrolyte systems. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 21286-21294	3.6	0
2	A practical way to enhance the synthesis of N from an N precursor, studied by both computational and experimental methods. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 15713-15718	3.6	0

- 1 Effect of single atom Platinum (Pt) doping and facet dependent on the electronic structure and light absorption of Lanthanum Titanium Oxide (La<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub>): A Density Functional Theory study. *Surface Science*, **2021**, 715, 121949

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