

Joshua Young

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.

36
papers

2,654
citations

20
h-index

44
g-index

44
ext. papers

3,160
ext. citations

8.3
avg, IF

5.45
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 36 | N8 stabilized single-atom Pd for highly selective hydrogenation of acetylene. <i>Journal of Catalysis</i> , 2021 , 395, 46-53 | 7.3 | 6 |
| 35 | Preventing Electrolyte Decomposition on a Ca Metal Electrode Interface Using an Artificial Solid-Electrolyte Interphase. <i>Advanced Theory and Simulations</i> , 2021 , 4, 2100018 | 3.5 | 2 |
| 34 | Computational investigation of enhanced properties in functionalized carbon nanotube doped polyvinyl alcohol gel electrolyte systems. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 21286-21294 | 3.6 | 0 |
| 33 | 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> , 2021 , 23, 15713-15718 | 3.6 | 0 |
| 32 | Effect of single atom Platinum (Pt) doping and facet dependent on the electronic structure and light absorption of Lanthanum Titanium Oxide (La ₂ Ti ₂ O ₇): A Density Functional Theory study. <i>Surface Science</i> , 2021 , 715, 121949 | 1.8 | 0 |
| 31 | Photocatalytically reductive defluorination of perfluorooctanoic acid (PFOA) using Pt/LaTiO nanoplates: Experimental and DFT assessment. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126452 | 12.8 | 6 |
| 30 | Valley phenomena in the candidate phase change material WSe ₂ (1-x)Te _{2x} . <i>Communications Physics</i> , 2020 , 3, | 5.4 | 3 |
| 29 | Valley phenomena in the candidate phase change material WSeTe. <i>Communications Physics</i> , 2020 , 3, | 5.4 | 1 |
| 28 | Ab initio investigation of the temperature-dependent elastic properties of Bi, Te and Cu. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 485902 | 1.8 | 2 |
| 27 | Ab initio investigation of the elastic properties of bismuth-based alloys. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 8 |
| 26 | Comparative Study of Ethylene Carbonate-Based Electrolyte Decomposition at Li, Ca, and Al Anode Interfaces. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1676-1684 | 6.1 | 19 |
| 25 | BaBTeO: A UV Nonlinear Optical Material. <i>Inorganic Chemistry</i> , 2018 , 57, 4771-4776 | 5.1 | 23 |
| 24 | Density Functional Theory Modeling of MnO ₂ Polymorphs as Cathodes for Multivalent Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8788-8795 | 3.8 | 48 |
| 23 | Inducing spontaneous electric polarizations in double perovskite iodide superlattices for ferroelectric photovoltaic materials. <i>Physical Review Materials</i> , 2018 , 2, | 3.2 | 5 |
| 22 | Ethylene Carbonate-Based Electrolyte Decomposition and Solid-Electrolyte Interphase Formation on Ca Metal Anodes. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3295-3300 | 6.4 | 21 |
| 21 | M ₄ Mg ₄ (P ₂ O ₇) ₃ (M = K, Rb): Structural Engineering of Pyrophosphates for Nonlinear Optical Applications. <i>Chemistry of Materials</i> , 2017 , 29, 1845-1855 | 9.6 | 121 |
| 20 | Learning from data to design functional materials without inversion symmetry. <i>Nature Communications</i> , 2017 , 8, 14282 | 17.4 | 55 |

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| 19 | Polar Oxides without Inversion Symmetry through Vacancy and Chemical Order. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2833-2841 | 16.4 | 27 |
| 18 | Mixed-Metal Carbonate Fluorides as Deep-Ultraviolet Nonlinear Optical Materials. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1285-1295 | 16.4 | 130 |
| 17 | The Next-Generation of Nonlinear Optical Materials: Rb ₃ Ba ₃ Li ₂ Al ₄ B ₆ O ₂₀ F ₈ Synthesis, Characterization, and Crystal Growth. <i>Advanced Optical Materials</i> , 2017 , 5, 1700840 | 8.1 | 52 |
| 16 | Controlling the H to T structural phase transition via chalcogen substitution in MoTe monolayers. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 31874-31882 | 3.6 | 12 |
| 15 | Interplay of Cation Ordering and Ferroelectricity in Perovskite Tin Iodides: Designing a Polar Halide Perovskite for Photovoltaic Applications. <i>Inorganic Chemistry</i> , 2017 , 56, 26-32 | 5.1 | 27 |
| 14 | Electronic, Crystal Chemistry, and Nonlinear Optical Property Relationships in the Dugganite A ₃ B ₃ CD ₂ O ₁₄ Family. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4984-9 | 16.4 | 89 |
| 13 | Design of noncentrosymmetric perovskites from centric and acentric basic building units. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4016-4027 | 7.1 | 25 |
| 12 | Octahedral Rotation Preferences in Perovskite Iodides and Bromides. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 918-22 | 6.4 | 84 |
| 11 | Bidenticity-Enhanced Second Harmonic Generation from Pb Chelation in Pb ₃ Mg ₃ TeP ₂ O ₁₄ . <i>Journal of the American Chemical Society</i> , 2016 , 138, 88-91 | 16.4 | 112 |
| 10 | Ruddlesden-Popper Hybrid Lead Iodide Perovskite 2D Homologous Semiconductors. <i>Chemistry of Materials</i> , 2016 , 28, 2852-2867 | 9.6 | 1166 |
| 9 | Pb ₂ Ba ₃ (BO ₃) ₃ Cl: A Material with Large SHG Enhancement Activated by Pb-Chelated BO ₃ Groups. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9417-22 | 16.4 | 220 |
| 8 | Anharmonic lattice interactions in improper ferroelectrics for multiferroic design. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 283202 | 1.8 | 44 |
| 7 | Tuning the ferroelectric polarization in A ₂ MnWO ₆ double perovskites through A cation substitution. <i>Dalton Transactions</i> , 2015 , 44, 10644-53 | 4.3 | 25 |
| 6 | Optical Materials: Design and Synthesis of the Beryllium-Free Deep-Ultraviolet Nonlinear Optical Material Ba ₃ (ZnB ₅ O ₁₀)PO ₄ (Adv. Mater. 45/2015). <i>Advanced Materials</i> , 2015 , 27, 7379-7379 | 24 | 3 |
| 5 | Crystal structure and electronic properties of bulk and thin film brownmillerite oxides. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 53 |
| 4 | Design and Synthesis of the Beryllium-Free Deep-Ultraviolet Nonlinear Optical Material Ba ₃ (ZnB ₅ O ₁₀)PO ₄ <i>Advanced Materials</i> , 2015 , 27, 7380-5 | 24 | 208 |
| 3 | Improper ferroelectricity and piezoelectric responses in rhombohedral (A,A')B ₂ O ₆ perovskite oxides. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 16 |
| 2 | Atomic Scale Design of Polar Perovskite Oxides without Second-Order Jahn-Teller Ions. <i>Chemistry of Materials</i> , 2013 , 25, 4545-4550 | 9.6 | 39 |

- 1 Rational Synthesis of Polymeric Nitrogen N80 with Ultraviolet Irradiation and Its Oxygen Reduction Reaction Mechanism Study with In Situ Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. *ACS Catalysis*, 13034-13040 13.1 1