

Liping Yu

List of Publications by Year in descending order

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29
papers

3,508
citations

331670

21
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

5136
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Lead-Free Inorganic Halide Perovskites for Solar Cells via Cation-Transmutation. Journal of the American Chemical Society, 2017, 139, 2630-2638.	13.7	714
2	Identification of Potential Photovoltaic Absorbers Based on First-Principles Spectroscopic Screening of Materials. Physical Review Letters, 2012, 108, 068701.	7.8	497
3	Prediction and accelerated laboratory discovery of previously unknown 18-electron ABX compounds. Nature Chemistry, 2015, 7, 308-316.	13.6	349
4	Inverse Design of High Absorption Thin-Film Photovoltaic Materials. Advanced Energy Materials, 2013, 3, 43-48.	19.5	316
5	Cu-In Halide Perovskite Solar Absorbers. Journal of the American Chemical Society, 2017, 139, 6718-6725.	13.7	316
6	A polarity-induced defect mechanism for conductivity and magnetism at polar-nonpolar oxide interfaces. Nature Communications, 2014, 5, 5118.	12.8	247
7	Iron Chalcogenide Photovoltaic Absorbers. Advanced Energy Materials, 2011, 1, 748-753.	19.5	138
8	Negative Poisson's ratio in 1T-type crystalline two-dimensional transition metal dichalcogenides. Nature Communications, 2017, 8, 15224.	12.8	130
9	Theoretical Prediction and Experimental Realization of New Stable Inorganic Materials Using the Inverse Design Approach. Journal of the American Chemical Society, 2013, 135, 10048-10054.	13.7	111
10	Sorting Stable versus Unstable Hypothetical Compounds: The Case of Multi-Functional ABX Half-Heusler Filled Tetrahedral Structures. Advanced Functional Materials, 2012, 22, 1425-1435.	14.9	107
11	Design and discovery of a novel half-Heusler transparent hole conductor made of all-metallic heavy elements. Nature Communications, 2015, 6, 7308.	12.8	89
12	Bending Two-Dimensional Materials To Control Charge Localization and Fermi-Level Shift. Nano Letters, 2016, 16, 2444-2449.	9.1	74
13	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. Nature Communications, 2019, 10, 4472.	12.8	59
14	Amorphous molecular junctions produced by ion irradiation on carbon nanotubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 324, 321-325.	2.1	53
15	Carbon spheres synthesized by ultrasonic treatment. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 307, 249-252.	2.1	48
16	Equivalence of dipole correction and Coulomb cutoff techniques in supercell calculations. Physical Review B, 2008, 77, .	3.2	34
17	Computational functionality-driven design of semiconductors for optoelectronic applications. Informa Mater, 2020, 2, 879-904.	17.3	32
18	First-principles study of mechanical and electronic properties of bent monolayer transition metal dichalcogenides. Physical Review Materials, 2019, 3, .	2.4	28

#	ARTICLE	IF	CITATIONS
19	Auxetic two-dimensional transition metal selenides and halides. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	27
20	First-principles investigations of the dielectric properties of polypropylene/metal-oxide interfaces. <i>Physical Review B</i> , 2009, 80, .	3.2	25
21	Key role of antibonding electron transfer in bonding on solid surfaces. <i>Physical Review Materials</i> , 2019, 3, .	2.4	22
22	CuTaS ₃ : Intermetal <i>d</i> Transitions Enable High Solar Absorption. <i>Chemistry of Materials</i> , 2017, 29, 2594-2598.	6.7	21
23	Intrinsic ferromagnetism and restrictive thermodynamic stability in $MA_{2-x}N_4$ and Janus $VSiGeN$ monolayers. <i>Physical Review Materials</i> , 2022, 6, .	2.4	19
24	On the thermodynamically stable amorphous phase of polymer-derived silicon oxycarbide. <i>Scientific Reports</i> , 2015, 5, 14550.	3.3	18
25	Anomalous deep polarization in $SrTi_3O_3$ (001) interfaced with an epitaxial ultrathin manganite film. <i>Physical Review B</i> , 2016, 94, .	3.2	14
26	Chemisorption Can Reverse Defect-Defect Interaction on Heterogeneous Catalyst Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7311-7317.	4.6	13
27	Atomic-Scale Investigation of Oxidation at the Black Phosphorus Surface. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4066-4072.	4.3	6
28	Interfacial Coupling and Polarization of Perovskite ABO ₃ Heterostructures. <i>Microscopy and Microanalysis</i> , 2017, 23, 1586-1587.	0.4	1
29	Interfacial coupling and polarization of perovskite ABO ₃ heterostructures. , 2017, , .		0