Liping Yu

List of Publications by Year
in descending order

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	Intrinsic ferromagnetism and restrictive thermodynamic stability in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>MA</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> monolayers. Physical Review Materials, 2022, 6, .	2.4	19
2	Atomic-Scale Investigation of Oxidation at the Black Phosphorus Surface. ACS Applied Electronic Materials, 2021, 3, 4066-4072.	4.3	6
3	Auxetic two-dimensional transition metal selenides and halides. Npj Computational Materials, 2020, 6, .	8.7	27
4	Computational functionalityâ€driven design of semiconductors for optoelectronic applications. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 879-904.	17.3	32
5	Bottom-up growth of homogeneous MoirÃ© superlattices in bismuth oxychloride spiral nanosheets. Nature Communications, 2019, 10, 4472.	12.8	59
6	Chemisorption Can Reverse Defectâ€“Defect Interaction on Heterogeneous Catalyst Surfaces. Journal of Physical Chemistry Letters, 2019, 10, 7311-7317.	4.6	13
7	First-principles study of mechanical and electronic properties of bent monolayer transition metal dichalcogenides. Physical Review Materials, 2019, 3, .	2.4	28
8	Key role of antibonding electron transfer in bonding on solid surfaces. Physical Review Materials, 2019, 3, .	2.4	22
9	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
10	Cuâ€“In Halide Perovskite Solar Absorbers. Journal of the American Chemical Society, 2017, 139, 6718-6725.	13.7	316
11	Negative Poissonâ€™s ratio in 1T-type crystalline two-dimensional transition metal dichalcogenides. Nature Communications, 2017, 8, 15224.	12.8	130
12	Interfacial coupling and polarization of perovskite ABO3 heterostructures. , 2017, , .		0
13	CuTaS₃: Intermetal dâ€“d Transitions Enable High Solar Absorption. Chemistry of Materials, 2017, 29, 2594-2598.	6.7	21
14	Interfacial Coupling and Polarization of Perovskite ABO3 Heterostructures. Microscopy and Microanalysis, 2017, 23, 1586-1587.	0.4	1
15	Anomalously deep polarization in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> (001) interfaced with an epitaxial ultrathin manganite film. Physical Review B, 2016, 94, .	3.2	14
16	Bending Two-Dimensional Materials To Control Charge Localization and Fermi-Level Shift. Nano Letters, 2016, 16, 2444-2449.	9.1	74
17	On the thermodynamically stable amorphous phase of polymer-derived silicon oxycarbide. Scientific Reports, 2015, 5, 14550.	3.3	18
18	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

#	Article	IF	Citations
19	Prediction and accelerated laboratory discovery of previously unknown 18-electron ABX compounds. Nature Chemistry, 2015, 7, 308-316.	13.6	349
20	A polarity-induced defect mechanism for conductivity and magnetism at polarâ€“nonpolar oxide interfaces. Nature Communications, 2014, 5, 5118.	12.8	247
21	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
22	Inverse Design of High Absorption Thinâ€Film Photovoltaic Materials. Advanced Energy Materials, 2013, 3, 43-48.	19.5	316
23	Identification of Potential Photovoltaic Absorbers Based on First-Principles Spectroscopic Screening of Materials. Physical Review Letters, 2012, 108, 068701.	7.8	497
24	Sorting Stable versus Unstable Hypothetical Compounds: The Case of Multiâ€Functional ABX Halfâ€Heusler Filled Tetrahedral Structures. Advanced Functional Materials, 2012, 22, 1425-1435.	14.9	107
25	Iron Chalcogenide Photovoltaic Absorbers. Advanced Energy Materials, 2011, 1, 748-753.	19.5	138
26	First-principles investigations of the dielectric properties of polypropylene/metal-oxide interfaces. Physical Review B, 2009, 80, .	3.2	25
27	Equivalence of dipole correction and Coulomb cutoff techniques in supercell calculations. Physical Review B, 2008, 77, .	3.2	34
28	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
29	Carbon spheres synthesized by ultrasonic treatment. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 307, 249-252.	2.1	48