

Wenmei Ming

List of Publications by Year in descending order

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31
papers

2,304
citations

304743
22
h-index

434195
31
g-index

31
all docs

31
docs citations

31
times ranked

3863
citing authors

#	ARTICLE	IF	CITATIONS
1	Doping-dependent phase diagram of LaOMAs ($M=V, Cu$) and electron-type superconductivity near ferromagnetic instability. <i>Europhysics Letters</i> , 2008, 82, 67002.	2.0	218
2	Epitaxial growth of large-gap quantum spin Hall insulator on semiconductor surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14378-14381.	7.1	205
3	Unraveling luminescence mechanisms in zero-dimensional halide perovskites. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6398-6405.	5.5	168
4	Large dielectric constant, high acceptor density, and deep electron traps in perovskite solar cell material $CsGeI_3$. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13852-13858.	10.3	148
5	Fast Diffusion of Native Defects and Impurities in Perovskite Solar Cell Material $CH_3NH_3PbI_3$. <i>Chemistry of Materials</i> , 2016, 28, 4349-4357.	6.7	139
6	Formation and Diffusion of Metal Impurities in Perovskite Solar Cell Material $CH_3NH_3PbI_3$: Implications on Solar Cell Degradation and Choice of Electrode. <i>Advanced Science</i> , 2018, 5, 1700662. magnetically doped topological insulators	11.2	130
7	xml�ns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Bi</mml:mtext><mml:mn>2</mml:mn></mml:msub><mml:math> /><mml:mn>3</mml:mn></mml:msub></mml:math>, Bi<mml:math> xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow>	3.2	126
8	A One-Dimensional Organic Lead Chloride Hybrid with Excitation-Dependent Broadband Emissions. <i>ACS Energy Letters</i> , 2018, 3, 1443-1449.	17.4	124
9	First-Principles Prediction of Thermodynamically Stable Two-Dimensional Electrides. <i>Journal of the American Chemical Society</i> , 2016, 138, 15336-15344.	13.7	91
10	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>s</mml:mi><mml:msup><mml:mi>d</mml:mi><mml:mn>2</mml:mn></mml:msup></mml:math> graphene: Kagome Band in a Hexagonal Lattice. <i>Physical Review Letters</i> , 2014, 113, 236802.		
11	Quasiparticle dynamics in reshaped helical Dirac cone of topological insulators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2758-2762.	7.1	86
12	Bismuth chalcohalides and oxyhalides as optoelectronic materials. <i>Physical Review B</i> , 2016, 93, .	3.2	82
13	Creation of helical Dirac fermions by interfacing two gapped systems of ordinary fermions. <i>Nature Communications</i> , 2013, 4, 1384.	12.8	81
14	Synthesis, Crystal and Electronic Structures, and Optical Properties of $(CH_3NH_3)_2CdX_4$ ($X = Cl, Br, I$). <i>Inorganic Chemistry</i> , 2017, 56, 13878-13888.	4.0	78
15	Bulk assembly of organic metal halide nanotubes. <i>Chemical Science</i> , 2017, 8, 8400-8404.	7.4	76
16	Formation of quantum spin Hall state on Si surface and energy gap scaling with strength of spin orbit coupling. <i>Scientific Reports</i> , 2014, 4, 7102.	3.3	75
17	Chemical instability leads to unusual chemical-potential-independent defect formation and diffusion in perovskite solar cell material $CH_3NH_3PbI_3$. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16975-16981.	10.3	67
18	Real-time Observation of Order-disorder Transformation of Organic Cations Induced Phase Transition and Anomalous Photoluminescence in Hybrid Perovskites. <i>Advanced Materials</i> , 2018, 30, e1705801.	21.0	60

#	ARTICLE		IF	CITATIONS
19	Observation of Nanoscale Morphological and Structural Degradation in Perovskite Solar Cells by in Situ TEM. ACS Applied Materials & Interfaces, 2016, 8, 32333-32340.		8.0	54
20	Formation of Ideal Rashba States on Layered Semiconductor Surfaces Steered by Strain Engineering. Nano Letters, 2016, 16, 404-409.		9.1	44
21	Prospective high thermoelectric performance of the heavily Mn^{4+} -doped half-Heusler compound CoVSn. Physical Review B, 2017, 95, .		3.2	37
22	Evolution of the electronic structure in ultrathin Bi(111) films. Physical Review B, 2015, 91, .		3.2	29
23	Quantum size effect on dielectric function of ultrathin metal film: a first-principles study of Al(1nm). Journal of Physics Condensed Matter, 2014, 26, 505302.		1.8	16
24	Chemical Trend of Transition-Metal Doping in WSe ₂ . Physical Review Applied, 2019, 12, .		3.8	16
25	Excitation Energies of Localized Correlated Defects via Quantum Monte Carlo: A Case Study of Mn ⁴⁺ -Doped Phosphors. Journal of Physical Chemistry Letters, 2019, 10, 67-74.		4.6	15
26	Robust Ferromagnetism in Highly Strained $\text{Mn}_{x}\text{Co}_{1-x}\text{O}$ Thin Films. Physical Review X, 2020, 10, .		8.9	15
27	Effects of Li doping on H-diffusion in MgH ₂ : A first-principles study. Journal of Applied Physics, 2013, 114, .		2.5	12
28	Doping Y ₂ O ₃ with Mn ⁴⁺ for energy-efficient lighting. Journal of Materials Chemistry C, 2018, 6, 4171-4176.		5.5	10
29	Tuning nucleation density of metal island with charge doping of graphene substrate. Applied Physics Letters, 2014, 105, 071609.		3.3	8
30	First-principles study of the electronic, vibrational, electron-phonon interaction and thermodynamics properties of ZrNi ₂ Ga. Journal of Physics Condensed Matter, 2009, 21, 075501.		1.8	5
31	Organohalide Perovskites: Real-Time Observation of Order-Disorder Transformation of Organic Cations Induced Phase Transition and Anomalous Photoluminescence in Hybrid Perovskites (Adv.) Tj ETQq1 1 0.784314 rgBT1/Overlock			