Weiwei Meng

List of Publications by Year
in descending order

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36	6,607	186265	330143
papers	citations	28 h-index	37 g-index

37	37	37	7391
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Irradiation and Size Effects on Redox Reaction Mechanisms in Iron Oxides. Chemistry of Materials, 2021, 33, 1860-1866.	6.7	7
2	Room-temperature oxygen vacancy migration induced reversible phase transformation during the anelastic deformation in CuO. Nature Communications, 2021, 12, 3863.	12.8	26
3	Probing the Crystal and Electronic Structures of Molybdenum Oxide in Redox Process: Implications for Energy Applications. ACS Applied Energy Materials, 2019, 2, 7709-7716.	5.1	6
4	Atomistic insight into ordered defect superstructures at novel grain boundaries in CuO nanosheets: From structures to electronic properties. Nano Research, 2019, 12, 1099-1104.	10.4	6
5	Surface- and Strain-Mediated Reversible Phase Transformation in Quantum-Confined ZnO Nanowires. Physical Review Letters, 2019, 123, 216101.	7.8	19
6	Atomistic Mechanism of Broadband Emission in Metal Halide Perovskites. Journal of Physical Chemistry Letters, 2019, 10, 501-506.	4.6	190
7	Stability, Electronic and Optical Properties of M₄Mâ€²X₄ (M = Ga or In, Mâ€² = Si,) Tj ETQq1 1 0.784314 rgB 10360-10364.	3.1	7
8	Lead-Free Direct Band Gap Double-Perovskite Nanocrystals with Bright Dual-Color Emission. Journal of the American Chemical Society, 2018, 140, 17001-17006.	13.7	399
9	Atomistic Insight into the Redox Reactions in Fe/Oxide Coreâ€“Shell Nanoparticles. Chemistry of Materials, 2018, 30, 7306-7312.	6.7	28
10	Metalâ€“Organic Framework-Derived CoWP@C Composite Nanowire Electrocatalyst for Efficient Water Splitting. ACS Energy Letters, 2018, 3, 1434-1442.	17.4	141
11	Employing Overlayers To Improve the Performance of Cu₂BaSnS₄ Thin Film based Photoelectrochemical Water Reduction Devices. Chemistry of Materials, 2017, 29, 916-920.	6.7	61
12	Intrinsic Instability of Cs₂In(I)M(III)X₆ (M = Bi, Sb; X = Halogen) Double Perovskites: A Combined Density Functional Theory and Experimental Study. Journal of the American Chemical Society, 2017, 139, 6054-6057.	13.7	253
13	Synergistic Effects of Lead Thiocyanate Additive and Solvent Annealing on the Performance of Wide-Bandgap Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 1177-1182.	17.4	190
14	Bandgap Engineering of Leadâ€Free Double Perovskite Cs₂AgBiBr₆ through Trivalent Metal Alloying. Angewandte Chemie - International Edition, 2017, 56, 8158-8162.	13.8	425
15	Bandgap Engineering of Leadâ€Free Double Perovskite Cs 2 AgBiBr 6 through Trivalent Metal Alloying. Angewandte Chemie, 2017, 129, 8270-8274.	2.0	40
16	Effects of organic cations on the defect physics of tin halide perovskites. Journal of Materials Chemistry A, 2017, 5, 15124-15129.	10.3	213
17	Parity-Forbidden Transitions and Their Impact on the Optical Absorption Properties of Lead-Free Metal Halide Perovskites and Double Perovskites. Journal of Physical Chemistry Letters, 2017, 8, 2999-3007.	4.6	441
18	A layered Na_{1â^'x}Ni_yFe_{1â^'y}O₂double oxide oxygen evolution reaction electrocatalyst for highly efficient water-splitting. Energy and Environmental Science, 2017, 10, 121-128.	30.8	201

#	Article	IF	Citations
19	Bandgap Engineering of Barium Bismuth Niobate Double Perovskite for Photoelectrochemical Water Oxidation. Advanced Energy Materials, 2017, 7, 1602260.	19.5	67
20	Searching for promising new perovskite-based photovoltaic absorbers: the importance of electronic dimensionality. Materials Horizons, 2017, 4, 206-216.	12.2	553
21	Cost-effective hole transporting material for stable and efficient perovskite solar cells with fill factors up to 82%. Journal of Materials Chemistry A, 2017, 5, 23319-23327.	10.3	40
22	Electronic band structures and excitonic properties of delafossites: A GW-BSE study. Journal of Applied Physics, 2017, 122, 085104.	2.5	22
23	Chemical Origin of the Stability Difference between Copper(I)â€•and Silver(I)â€Based Halide Double Perovskites. Angewandte Chemie - International Edition, 2017, 56, 12107-12111.	13.8	89
24	Chemical Origin of the Stability Difference between Copper(I)â€•and Silver(I)â€Based Halide Double Perovskites. Angewandte Chemie, 2017, 129, 12275-12279.	2.0	79
25	Distant-Atom Mutation for Better Earth-Abundant Light Absorbers: A Case Study of Cu₂BaSnSe₄. ACS Energy Letters, 2017, 2, 29-35.	17.4	68
26	Thermodynamic Stability and Defect Chemistry of Bismuthâ€Based Leadâ€Free Double Perovskites. ChemSusChem, 2016, 9, 2628-2633.	6.8	273
27	Leadâ€Free Inverted Planar Formamidinium Tin Triiodide Perovskite Solar Cells Achieving Power Conversion Efficiencies up to 6.22%. Advanced Materials, 2016, 28, 9333-9340.	21.0	636
28	Crystal Structure of AgBi₂I₇ Thin Films. Journal of Physical Chemistry Letters, 2016, 7, 3903-3907.	4.6	64
29	Thermally evaporated methylammonium tin triiodide thin films for lead-free perovskite solar cell fabrication. RSC Advances, 2016, 6, 90248-90254.	3.6	114
30	Employing Lead Thiocyanate Additive to Reduce the Hysteresis and Boost the Fill Factor of Planar Perovskite Solar Cells. Advanced Materials, 2016, 28, 5214-5221.	21.0	487
31	Trigonal Cu₂-II-Sn-VI₄ (II = Ba, Sr and VI = S, Se) quaternary compounds for earth-abundant photovoltaics. Physical Chemistry Chemical Physics, 2016, 18, 4828-4834.	2.8	94
32	Alloying and Defect Control within Chalcogenide Perovskites for Optimized Photovoltaic Application. Chemistry of Materials, 2016, 28, 821-829.	6.7	175
33	Photovoltaic Properties of Two-Dimensional (CH₃NH₃)₂Pb(SCN)₂I₂ Perovskite: A Combined Experimental and Density Functional Theory Study. Journal of Physical Chemistry Letters, 2016, 7, 1213-1218.	4.6	135
34	Viability of Lead-Free Perovskites with Mixed Chalcogen and Halogen Anions for Photovoltaic Applications. Journal of Physical Chemistry C, 2016, 120, 6435-6441.	3.1	72
35	Thin-Film Deposition and Characterization of a Sn-Deficient Perovskite Derivative Cs₂SnI₆. Chemistry of Materials, 2016, 28, 2315-2322.	6.7	329
36	Thin-Film Preparation and Characterization of Cs₃Sb₂I₉: A Lead-Free Layered Perovskite Semiconductor. Chemistry of Materials, 2015, 27, 5622-5632.	6.7	653