Yanan Fang

List of Publications by Year
in descending order

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31 papers	4,022 citations	331259 21 h-index	433756 31 g-index
31 all docs	31 docs citations	31 times ranked	6828 citing authors

#	Article	IF	Citations
1	Synthesis and crystal chemistry of the hybrid perovskite (CH3NH3)PbI3 for solid-state sensitised solar cell applications. Journal of Materials Chemistry A, 2013, 1, 5628.	5.2	2,254
2	A combined single crystal neutron/X-ray diffraction and solid-state nuclear magnetic resonance study of the hybrid perovskites CH₃NH₃PbX₃ (X = I, Br and Cl). Journal of Materials Chemistry A, 2015, 3, 9298-9307.	5.2	253
3	Mechanical properties of organicâ€“inorganic halide perovskites, CH₃NH₃PbX₃(X = I, Br and Cl), by nanoindentation. Journal of Materials Chemistry A, 2015, 3, 18450-18455.	5.2	197
4	Pressureâ€Dependent Polymorphism and Bandâ€Gap Tuning of Methylammonium Lead Iodide Perovskite. Angewandte Chemie - International Edition, 2016, 55, 6540-6544.	7.2	157
5	Manipulating efficient light emission in two-dimensional perovskite crystals by pressure-induced anisotropic deformation. Science Advances, 2019, 5, eaav9445.	4.7	130
6	Cesium Copper Iodide Tailored Nanoplates and Nanorods for Blue, Yellow, and White Emission. Chemistry of Materials, 2019, 31, 9003-9011.	3.2	111
7	Crystalline Fe 2 O 3 /Fe 2 TiO 5 heterojunction nanorods with efficient charge separation and hole injection as photoanode for solar water oxidation. Nano Energy, 2016, 22, 310-318.	8.2	100
8	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C₄H₉NH₃)₂PbI₄ Perovskite Exfoliated nm-Thin Flakes. Journal of the American Chemical Society, 2019, 141, 1235-1241.	6.6	95
9	Highâ€Pressureâ€Induced Comminution and Recrystallization of CH₃NH₃PbBr₃ Nanocrystals as Large Thin Nanoplates. Advanced Materials, 2018, 30, 1705017.	11.1	89
10	In Situ Growth of [hk1]â€Oriented Sb₂S₃ for Solutionâ€Processed Planar Heterojunction Solar Cell with 6.4% Efficiency. Advanced Functional Materials, 2020, 30, 2002887.	7.8	85
11	Revealing the Role of TiO₂ Surface Treatment of Hematite Nanorods Photoanodes for Solar Water Splitting. ACS Applied Materials & Interfaces, 2015, 7, 16960-16966.	4.0	81
12	Hydrogen-Bonding Evolution during the Polymorphic Transformations in CH₃NH₃PbBr₃: Experiment and Theory. Chemistry of Materials, 2017, 29, 5974-5981.	3.2	80
13	Controllable Solutionâ€Phase Epitaxial Growth of Q1D Sb₂(S,Se)₃/CdS Heterojunction Solar Cell with 9.2% Efficiency. Advanced Materials, 2021, 33, e2104346.	11.1	47
14	Precise Control of CsPbBr₃ Perovskite Nanocrystal Growth at Room Temperature: Size Tunability and Synthetic Insights. Chemistry of Materials, 2021, 33, 2387-2397.	3.2	40
15	Performance Enhanced Light-Emitting Diodes Fabricated from Nanocrystalline CsPbBr₃ with In Situ Zn²⁺ Addition. ACS Applied Electronic Materials, 2020, 2, 4002-4011.	2.0	33
16	Understanding charge transport in non-doped pristine and surface passivated hematite (Fe₂O₃) nanorods under front and backside illumination in the context of light induced water splitting. Physical Chemistry Chemical Physics, 2016, 18, 30370-30378.	1.3	32
17	Robust solid oxide cells for alternate power generation and carbon conversion. RSC Advances, 2011, 1, 715.	1.7	28
18	Crystal Chemistry and Antibacterial Properties of Cupriferous Hydroxyapatite. Materials, 2019, 12, 1814.	1.3	27

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19	Investigating the structureâ€“function relationship in triple cation perovskite nanocrystals for light-emitting diode applications. Journal of Materials Chemistry C, 2020, 8, 11805-11821.	2.7	27
20	Anisotropic oxide ion conduction in melilite intermediate temperature electrolytes. Journal of Materials Chemistry A, 2015, 3, 3091-3096.	5.2	25
21	Pressureâ€Dependent Polymorphism and Bandâ€Gap Tuning of Methylammonium Lead Iodide Perovskite. Angewandte Chemie, 2016, 128, 6650-6654.	1.6	24
22	Room temperature synthesis of low-dimensional rubidium copper halide colloidal nanocrystals with near unity photoluminescence quantum yield. Nanoscale, 2021, 13, 59-65.	2.8	20
23	Elucidation of the structural and optical properties of metal cation (Na⁺, K⁺,) Tj ETQq1 1 0.784314 rgBT /Ov nanocrystals. Journal of Materials Chemistry A, 2022, 10, 3562-3578.	5.2	18
24	The Crystal Chemistry of Ca_{10â€“y}(SiO₄)₃(SO₄)₃Cl<sub>2â€“x+y</su Ellestadite. Inorganic Chemistry, 2011, 50, 12641-12650.	1.9	16
25	The synergistic effect of cation mixing in mesoporous Bi_xFe_{1â^'x}VO₄ heterojunction photoanodes for solar water splitting. Journal of Materials Chemistry A, 2019, 7, 14816-14824.	5.2	15
26	Toward Efficient and Stable Perovskite Photovoltaics with Fluorinated Phosphonate Salt Surface Passivation. ACS Applied Energy Materials, 2021, 4, 2716-2723.	2.5	8
27	Pressure-Induced Phase Transitions and Bandgap-Tuning Effect of Methylammonium Lead Iodide Perovskite. MRS Advances, 2018, 3, 1825-1830.	0.5	7
28	Structure and surface properties of size-tuneable CsPbBr₃ nanocrystals. Nanoscale, 2021, 13, 15770-15780.	2.8	7
29	Nanostructured Iron Vanadate Photoanodes with Enhanced Visible Absorption and Charge Separation. ACS Applied Energy Materials, 2022, 5, 3409-3416.	2.5	7
30	Crystal Chemistry of Vanadium-Bearing Ellestadite Waste Forms. Inorganic Chemistry, 2018, 57, 9122-9132.	1.9	6
31	Composition-tuned MAPbBr3 nanoparticles with addition of Cs+ cations for improved photoluminescence. RSC Advances, 2021, 11, 24137-24143.	1.7	3