

Yanan Fang

List of Publications by Year in descending order

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31
papers

4,022
citations

331670

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6828
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidation of the structural and optical properties of metal cation (Na ⁺ , K ⁺ , Tl ⁺) perovskite nanocrystals. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3562-3578.	10.3	18
2	Nanostructured Iron Vanadate Photoanodes with Enhanced Visible Absorption and Charge Separation. <i>ACS Applied Energy Materials</i> , 2022, 5, 3409-3416.	5.1	7
3	Composition-tuned MAPbBr ₃ nanoparticles with addition of Cs ⁺ cations for improved photoluminescence. <i>RSC Advances</i> , 2021, 11, 24137-24143.	3.6	3
4	Room temperature synthesis of low-dimensional rubidium copper halide colloidal nanocrystals with near unity photoluminescence quantum yield. <i>Nanoscale</i> , 2021, 13, 59-65.	5.6	20
5	Structure and surface properties of size-tuneable CsPbBr ₃ nanocrystals. <i>Nanoscale</i> , 2021, 13, 15770-15780.	5.6	7
6	Toward Efficient and Stable Perovskite Photovoltaics with Fluorinated Phosphonate Salt Surface Passivation. <i>ACS Applied Energy Materials</i> , 2021, 4, 2716-2723.	5.1	8
7	Precise Control of CsPbBr ₃ Perovskite Nanocrystal Growth at Room Temperature: Size Tunability and Synthetic Insights. <i>Chemistry of Materials</i> , 2021, 33, 2387-2397.	6.7	40
8	Controllable Solution-Phase Epitaxial Growth of Q1D Sb ₂ (S,Se) ₃ /CdS Heterojunction Solar Cell with 9.2% Efficiency. <i>Advanced Materials</i> , 2021, 33, e2104346.	21.0	47
9	Performance Enhanced Light-Emitting Diodes Fabricated from Nanocrystalline CsPbBr ₃ with In Situ Zn ²⁺ Addition. <i>ACS Applied Electronic Materials</i> , 2020, 2, 4002-4011.	4.3	33
10	Investigating the structure-function relationship in triple cation perovskite nanocrystals for light-emitting diode applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11805-11821.	5.5	27
11	In Situ Growth of [hk1]-Oriented Sb ₂ S ₃ for Solution-Processed Planar Heterojunction Solar Cell with 6.4% Efficiency. <i>Advanced Functional Materials</i> , 2020, 30, 2002887.	14.9	85
12	Crystal Chemistry and Antibacterial Properties of Cupriferous Hydroxyapatite. <i>Materials</i> , 2019, 12, 1814.	2.9	27
13	Manipulating efficient light emission in two-dimensional perovskite crystals by pressure-induced anisotropic deformation. <i>Science Advances</i> , 2019, 5, eaav9445.	10.3	130
14	Cesium Copper Iodide Tailored Nanoplates and Nanorods for Blue, Yellow, and White Emission. <i>Chemistry of Materials</i> , 2019, 31, 9003-9011.	6.7	111
15	The synergistic effect of cation mixing in mesoporous Bi _x Fe _{1-x} VO ₄ heterojunction photoanodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14816-14824.	10.3	15
16	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C ₄ H ₉ NH ₃) ₂ PbI ₄ Perovskite Exfoliated nm-Thin Flakes. <i>Journal of the American Chemical Society</i> , 2019, 141, 1235-1241.	18.7	95
17	Pressure-Induced Phase Transitions and Bandgap-Tuning Effect of Methylammonium Lead Iodide Perovskite. <i>MRS Advances</i> , 2018, 3, 1825-1830.	0.9	7
18	High-Pressure-Induced Comminution and Recrystallization of CH ₃ NH ₃ PbBr ₃ Nanocrystals as Large Thin Nanoplates. <i>Advanced Materials</i> , 2018, 30, 1705017.	21.0	89

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19	Crystal Chemistry of Vanadium-Bearing Ellestadite Waste Forms. <i>Inorganic Chemistry</i> , 2018, 57, 9122-9132.	4.0	6
20	Hydrogen-Bonding Evolution during the Polymorphic Transformations in $\text{CH}_3\text{NH}_3\text{PbBr}_3$: Experiment and Theory. <i>Chemistry of Materials</i> , 2017, 29, 5974-5981.	6.7	80
21	Understanding charge transport in non-doped pristine and surface passivated hematite (Fe_2O_3) nanorods under front and backside illumination in the context of light induced water splitting. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30370-30378.	2.8	32
22	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6540-6544.	13.8	157
23	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. <i>Angewandte Chemie</i> , 2016, 128, 6650-6654.	2.0	24
24	Crystalline $\text{Fe}_2\text{O}_3/\text{Fe}_2\text{TiO}_5$ heterojunction nanorods with efficient charge separation and hole injection as photoanode for solar water oxidation. <i>Nano Energy</i> , 2016, 22, 310-318.	16.0	100
25	Anisotropic oxide ion conduction in melilite intermediate temperature electrolytes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3091-3096.	10.3	25
26	Mechanical properties of organic-inorganic halide perovskites, $\text{CH}_3\text{NH}_3\text{PbX}_3$ ($X = \text{I}, \text{Br}$ and Cl), by nanoindentation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18450-18455.	10.3	197
27	Revealing the Role of TiO_2 Surface Treatment of Hematite Nanorods Photoanodes for Solar Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16960-16966.	8.0	81
28	A combined single crystal neutron/X-ray diffraction and solid-state nuclear magnetic resonance study of the hybrid perovskites $\text{CH}_3\text{NH}_3\text{PbX}_3$ ($X = \text{I}, \text{Br}$ and Cl). <i>Journal of Materials Chemistry A</i> , 2015, 3, 9298-9307.	10.3	253
29	Synthesis and crystal chemistry of the hybrid perovskite $(\text{CH}_3\text{NH}_3)\text{PbI}_3$ for solid-state sensitised solar cell applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5628.	10.3	2,254
30	Robust solid oxide cells for alternate power generation and carbon conversion. <i>RSC Advances</i> , 2011, 1, 715.	3.6	28
31	The Crystal Chemistry of $\text{Ca}_{10}(\text{SiO}_4)_3(\text{SiO}_4)_3(\text{SO}_4)_3\text{Cl}_2$ Ellestadite. <i>Inorganic Chemistry</i> , 2011, 50, 12641-12650.		