## Quantum and Dielectric Confinement Effects in Lower-Semiconductors

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Citation Report

#	Article	IF	CITATIONS
1	Adsorption of Formic Acid on CH3NH3PbI3 Lead–Halide Organic–Inorganic Perovskites. Journal of Physical Chemistry C, 2019, 123, 22873-22886.	3.1	5
2	Exciton–Exciton Annihilation in Two-Dimensional Halide Perovskites at Room Temperature. Journal of Physical Chemistry Letters, 2019, 10, 5153-5159.	4.6	74
3	Structure-directing effects in (110)-layered hybrid perovskites containing two distinct organic moieties. Chemical Communications, 2019, 55, 9935-9938.	4.1	26
4	Polarizationâ€Driven Selfâ€Powered Photodetection in a Singleâ€Phase Biaxial Hybrid Perovskite Ferroelectric. Angewandte Chemie, 2019, 131, 14646-14650.	2.0	28
5	Polarizationâ€Driven Selfâ€Powered Photodetection in a Singleâ€Phase Biaxial Hybrid Perovskite Ferroelectric. Angewandte Chemie - International Edition, 2019, 58, 14504-14508.	13.8	114
6	Fluorinated Spacers Regulate the Emission and Bandgap of Two-Dimensional Single-Layered Lead Bromide Perovskites by Hydrogen Bonding. Journal of Physical Chemistry Letters, 2019, 10, 5271-5276.	4.6	28
7	Two-Dimensional Dion–Jacobson Hybrid Lead Iodide Perovskites with Aromatic Diammonium Cations. Journal of the American Chemical Society, 2019, 141, 12880-12890.	13.7	241
8	High-Temperature Antiferroelectric of Lead Iodide Hybrid Perovskites. Journal of the American Chemical Society, 2019, 141, 12470-12474.	13.7	108
9	Non-Coulombic behavior of electrostatic charge-charge interaction in three-layer heterostructures. Journal of Electrostatics, 2019, 102, 103377.	1.9	3
10	Mechanochromic and Electroluminescence Properties of a Layered Hybrid Perovskite Belonging to the <110> Series. European Journal of Inorganic Chemistry, 2019, 2019, 4527-4531.	2.0	15
11	Recent advances in atomic imaging of organic-inorganic hybrid perovskites. Nano Materials Science, 2019, 1, 260-267.	8.8	10
12	Hybrid Halide Perovskites: Discussions on Terminology and Materials. Angewandte Chemie, 2019, 131, 18078-18083.	2.0	17
13	Hybrid Halide Perovskites: Discussions on Terminology and Materials. Angewandte Chemie - International Edition, 2019, 58, 17912-17917.	13.8	56
14	Controlling the Growth Kinetics and Optoelectronic Properties of 2D/3D Lead–Tin Perovskite Heterojunctions. Advanced Materials, 2019, 31, e1905247.	21.0	36
15	Tuning Electronic Structure in Layered Hybrid Perovskites with Organic Spacer Substitution. Nano Letters, 2019, 19, 8732-8740.	9.1	41
16	Dual excitonic emissions and structural phase transition of octylammonium lead iodide 2D layered perovskite single crystal. Materials Research Express, 2019, 6, 124002.	1.6	15
17	Toward Phase Stability: Dion–Jacobson Layered Perovskite for Solar Cells. ACS Energy Letters, 2019, 4, 2960-2974.	17.4	124
18	Inorganic Cage Motion Dominates Excited-State Dynamics in 2D-Layered Perovskites (C <i><sub>x</sub></i> H <sub>2</sub> <i><sub>x</sub></i> <sub>+1</sub> NH <sub>3</sub> ) <sub>2</sub> Pt ( <i>x</i> = 4–9). Journal of Physical Chemistry C, 2019, 123, 27904-27916.	ol <s&ub>4<!--</td--><td>รนษอ</td></s&ub>	รนษอ

#	Article	IF	CITATIONS
19	Imaging Excited State Dynamics in Layered 2D Perovskites with Transient Absorption Microscopy. Journal of Physical Chemistry A, 2019, 123, 11012-11021.	2.5	21
20	Intrinsic Strong Linear Dichroism of Multilayered 2D Hybrid Perovskite Crystals toward Highly Polarizedâ€Sensitive Photodetection. Advanced Optical Materials, 2019, 7, 1901049.	7.3	35
21	Toward a New Energy Era: Selfâ€Driven Integrated Systems Based on Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900320.	5.8	9
22	Seven-Layered 2D Hybrid Lead Iodide Perovskites. CheM, 2019, 5, 2593-2604.	11.7	79
23	Phase-Transition-Induced Carrier Mass Enhancement in 2D Ruddlesden–Popper Perovskites. ACS Energy Letters, 2019, 4, 2386-2392.	17.4	38
24	Optical Constants and Effective-Medium Origins of Large Optical Anisotropies in Layered Hybrid Organic/Inorganic Perovskites. ACS Nano, 2019, 13, 10745-10753.	14.6	24
25	Scaling of the free and the relaxed exciton in perovskites (RNH3)2(CH3NH3)pâ^'1PbpI3p+1 large sized monolayers. Journal of Applied Physics, 2019, 126, 085502.	2.5	1
26	Optical Properties of Layered Hybrid Organic–Inorganic Halide Perovskites: A Tight-Binding GW-BSE Study. Journal of Physical Chemistry Letters, 2019, 10, 6189-6196.	4.6	51
27	Layered Lead Iodide of [Methylhydrazinium] <sub>2</sub> PbI <sub>4</sub> with a Reduced Band Gap: Thermochromic Luminescence and Switchable Dielectric Properties Triggered by Structural Phase Transitions. Chemistry of Materials, 2019, 31, 8563-8575.	6.7	72
28	Excitons in 2D Organic–Inorganic Halide Perovskites. Trends in Chemistry, 2019, 1, 380-393.	8.5	146
29	From 2D to 1D Electronic Dimensionality in Halide Perovskites with Stepped and Flat Layers Using Propylammonium as a Spacer. Journal of the American Chemical Society, 2019, 141, 10661-10676.	13.7	66
30	Direct-Bandgap 2D Silver–Bismuth lodide Double Perovskite: The Structure-Directing Influence of an Oligothiophene Spacer Cation. Journal of the American Chemical Society, 2019, 141, 7955-7964.	13.7	151
31	Small Cyclic Diammonium Cation Templated (110)-Oriented 2D Halide (X = I, Br, Cl) Perovskites with White-Light Emission. Chemistry of Materials, 2019, 31, 3582-3590.	6.7	101
32	Spin-dependent charge transport through 2D chiral hybrid lead-iodide perovskites. Science Advances, 2019, 5, eaay0571.	10.3	275
33	Electronic properties of Pb-I deficient lead halide perovskites. Journal of Chemical Physics, 2019, 151, 234704.	3.0	7
34	Resonant free-carrier absorption in 2D hybrid organic-inorganic perovskites: The Rashba effect or small polarons?. Journal of Chemical Physics, 2019, 151, 204106.	3.0	1
35	Spectral Signatures of Positive and Negative Polarons in Lead-Halide Perovskite Nanocrystals. Journal of Physical Chemistry C, 2020, 124, 1027-1041.	3.1	11
36	Manipulation of Dipolar Polarization at Steady States for a Quasiâ€⊋D Organic–Inorganic Hybrid Perovskite with a Nanorod Network. Solar Rrl, 2020, 4, 1900378.	5.8	6

#	Article	IF	CITATIONS
37	Reversible Thermochromism and Strong Ferromagnetism in Twoâ€Đimensional Hybrid Perovskites. Angewandte Chemie, 2020, 132, 209-214.	2.0	21
38	Tuning the Energetic Landscape of Ruddlesden–Popper Perovskite Films for Efficient Solar Cells. ACS Energy Letters, 2020, 5, 39-46.	17.4	47
39	Reversible Thermochromism and Strong Ferromagnetism in Twoâ€Dimensional Hybrid Perovskites. Angewandte Chemie - International Edition, 2020, 59, 203-208.	13.8	75
40	Multiband <b>k·p</b> Model for Tetragonal Crystals: Application to Hybrid Halide Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2020, 11, 808-817.	4.6	27
41	Dimensional Reduction of Cs <sub>2</sub> AgBiBr <sub>6</sub> : A 2D Hybrid Double Perovskite with Strong Polarization Sensitivity. Angewandte Chemie, 2020, 132, 3457-3461.	2.0	18
42	Dimensional Reduction of Cs <sub>2</sub> AgBiBr <sub>6</sub> : A 2D Hybrid Double Perovskite with Strong Polarization Sensitivity. Angewandte Chemie - International Edition, 2020, 59, 3429-3433.	13.8	78
43	Modulating Band Alignment in Mixed Dimensionality 3D/2D Perovskites by Surface Termination Ligand Engineering. Chemistry of Materials, 2020, 32, 105-113.	6.7	19
44	Organic intercalation engineering of quasi-2D Dion–Jacobson α-CsPbI <sub>3</sub> perovskites. Materials Horizons, 2020, 7, 1042-1050.	12.2	55
45	Solid-State NMR and NQR Spectroscopy of Lead-Halide Perovskite Materials. Journal of the American Chemical Society, 2020, 142, 19413-19437.	13.7	76
46	Reversible multicolor chromism in layered formamidinium metal halide perovskites. Nature Communications, 2020, 11, 5234.	12.8	48
47	Implicit Tandem Organic–Inorganic Hybrid Perovskite Solar Cells Based on Internal Dye Sensitization: Robotized Screening, Synthesis, Device Implementation, and Theoretical Insights. Journal of the American Chemical Society, 2020, 142, 18437-18448.	13.7	18
48	Traps in metal halide perovskites: characterization and passivation. Nanoscale, 2020, 12, 22425-22451.	5.6	26
49	Even-Parity Self-Trapped Excitons Lead to Magnetic Dipole Radiation in Two-Dimensional Lead Halide Perovskites. ACS Nano, 2020, 14, 8958-8968.	14.6	23
50	Lateral Photodetectors Based on Double-Cable Polymer/Two-Dimensional Perovskite Heterojunction. ACS Applied Materials & Interfaces, 2020, 12, 8826-8834.	8.0	27
51	Pressureâ€Suppressed Carrier Trapping Leads to Enhanced Emission in Twoâ€Dimensional Perovskite (HA) <sub>2</sub> (GA)Pb <sub>2</sub> 1 <sub>7</sub> . Angewandte Chemie, 2020, 132, 17686-17692.	2.0	26
52	A layered hybrid rare-earth double-perovskite-type molecule-based compound with electrical and optical response properties. Journal of Materials Chemistry C, 2020, 8, 16349-16353.	5.5	17
53	Unraveling the Microstructure of Layered Metal Halide Perovskite Films. Small Structures, 2020, 1, 2000074.	12.0	8
54	Ultrathin Singleâ€Crystalline 2D Perovskite Photoconductor for Highâ€Performance Narrowband and Wide Linear Dynamic Range Photodetection. Small, 2020, 16, e2005626.	10.0	26

#	Article	IF	CITATIONS
55	Universal Strategy of 3D and 2D Hybrid Perovskites Single Crystal Growth via In Situ Solvent Conversion. Chemistry of Materials, 2020, 32, 9805-9812.	6.7	18
56	Giant and Broadband Multiphoton Absorption Nonlinearities of a 2D Organometallic Perovskite Ferroelectric. Advanced Materials, 2020, 32, e2002972.	21.0	51
57	First-Principles Study on the Photoelectric Properties of CsGeI3 under Hydrostatic Pressure. Applied Sciences (Switzerland), 2020, 10, 5055.	2.5	19
58	Database of Two-Dimensional Hybrid Perovskite Materials: Open-Access Collection of Crystal Structures, Band Gaps, and Atomic Partial Charges Predicted by Machine Learning. Chemistry of Materials, 2020, 32, 7383-7388.	6.7	102
59	Influence of the Vibrational Modes from the Organic Moieties in 2D Lead Halides on Excitonic Recombination and Phase Transition. Advanced Optical Materials, 2020, 8, 2001431.	7.3	19
60	The Emergence of Halide Layered Double Perovskites. ACS Energy Letters, 2020, 5, 3591-3608.	17.4	88
61	Progress and Prospects of Solution-Processed Two-Dimensional Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2020, 124, 21895-21908.	3.1	32
62	Organic-to-inorganic structural chirality transfer in a 2D hybrid perovskite and impact on Rashba-Dresselhaus spin-orbit coupling. Nature Communications, 2020, 11, 4699.	12.8	200
63	Charge carrier dynamics in two-dimensional hybrid perovskites: Dion–Jacobson <i>vs.</i> Ruddlesden–Popper phases. Journal of Materials Chemistry A, 2020, 8, 22009-22022.	10.3	72
64	Exploiting two-dimensional hybrid perovskites incorporating secondary amines for high-performance array photodetection. Journal of Materials Chemistry C, 2020, 8, 12848-12853.	5.5	9
65	Alternative Organic Spacers for More Efficient Perovskite Solar Cells Containing Ruddlesden–Popper Phases. Journal of the American Chemical Society, 2020, 142, 19705-19714.	13.7	83
66	2D–3D Cs <sub>2</sub> PbI <sub>2</sub> Cl <sub>2</sub> –CsPbI <sub>2.5</sub> Br <sub>0.5</sub> Mixed-Dimensional Films for All-Inorganic Perovskite Solar Cells with Enhanced Efficiency and Stability. Journal of Physical Chemistry Letters, 2020, 11, 4138-4146.	4.6	40
67	Roomâ€Temperature Ferroelectric Material Composed of a Twoâ€Dimensional Metal Halide Double Perovskite for Xâ€ray Detection. Angewandte Chemie - International Edition, 2020, 59, 13879-13884.	13.8	116
68	Roomâ€īemperature Ferroelectric Material Composed of a Twoâ€Dimensional Metal Halide Double Perovskite for Xâ€ray Detection. Angewandte Chemie, 2020, 132, 13983-13988.	2.0	31
69	Band Gap-Tunable, Chiral Hybrid Metal Halides Displaying Second-Harmonic Generation. Chemistry of Materials, 2020, 32, 4801-4807.	6.7	67
70	Negative Pressure Engineering with Large Cage Cations in 2D Halide Perovskites Causes Lattice Softening. Journal of the American Chemical Society, 2020, 142, 11486-11496.	13.7	84
71	Spatial Charge Separation as the Origin of Anomalous Stark Effect in Fluorous 2D Hybrid Perovskites. Advanced Functional Materials, 2020, 30, 2000228.	14.9	12
72	Exciton-band tuning induced by the width of the cation in 2D lead iodide perovskite hybrids. Materials Chemistry Frontiers, 2020, 4, 2023-2028.	5.9	12

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73	Photosupercapacitors: A perspective of planar and flexible dual functioning devices. Wiley Interdisciplinary Reviews: Energy and Environment, 2020, 9, e377.	4.1	4
74	Correlation of Dielectric Confinement and Excitonic Binding Energy in 2D Layered Hybrid Perovskites Using Temperature Dependent Photoluminescence. Journal of Physical Chemistry C, 2020, 124, 16177-16185.	3.1	59
75	Ultrafast charge carrier dynamics in quantum confined 2D perovskite. Journal of Chemical Physics, 2020, 152, 214705.	3.0	12
76	A chiral lead-free photoactive hybrid material with a narrow bandgap. Inorganic Chemistry Frontiers, 2020, 7, 2770-2777.	6.0	16
77	Three-Dimensional Lead Iodide Perovskitoid Hybrids with High X-ray Photoresponse. Journal of the American Chemical Society, 2020, 142, 6625-6637.	13.7	82
78	Broad-band emission in metal halide perovskites: Mechanism, materials, and applications. Materials Science and Engineering Reports, 2020, 141, 100548.	31.8	208
79	Exciton Polarons in Two-Dimensional Hybrid Metal-Halide Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 3173-3184.	4.6	100
80	Semiconductor Quantum Dots for Memories and Neuromorphic Computing Systems. Chemical Reviews, 2020, 120, 3941-4006.	47.7	203
81	Optoelectronic Properties of Two-Dimensional Bromide Perovskites: Influences of Spacer Cations. Journal of Physical Chemistry Letters, 2020, 11, 2955-2964.	4.6	50
82	Polarons in Halide Perovskites: A Perspective. Journal of Physical Chemistry Letters, 2020, 11, 3271-3286.	4.6	110
83	From bulk to molecularly thin hybrid perovskites. Nature Reviews Materials, 2020, 5, 482-500.	48.7	164
84	Molecular Intercalation and Electronic Two Dimensionality in Layered Hybrid Perovskites. Angewandte Chemie - International Edition, 2020, 59, 11653-11659.	13.8	49
85	Molecular Intercalation and Electronic Two Dimensionality in Layered Hybrid Perovskites. Angewandte Chemie, 2020, 132, 11750-11756.	2.0	6
86	Recent processes on light-emitting lead-free metal halide perovskites. Chemical Engineering Journal, 2020, 393, 124757.	12.7	65
87	Highly Distorted Chiral Two-Dimensional Tin Iodide Perovskites for Spin Polarized Charge Transport. Journal of the American Chemical Society, 2020, 142, 13030-13040.	13.7	198
88	Significance of Ambient Temperature Control for Highly Reproducible Layered Perovskite Light-Emitting Diodes. ACS Photonics, 2020, 7, 2489-2497.	6.6	15
89	Organicâ€Saltâ€Assisted Crystal Growth and Orientation of Quasiâ€2D Ruddlesden–Popper Perovskites for Solar Cells with Efficiency over 19%. Advanced Materials, 2020, 32, e2001470.	21.0	162
90	Pressureâ€Suppressed Carrier Trapping Leads to Enhanced Emission in Twoâ€Dimensional Perovskite (HA) <sub>2</sub> (GA)Pb <sub>2</sub> I <sub>7</sub> . Angewandte Chemie - International Edition, 2020, 59, 17533-17539.	13.8	71

#	Article	IF	CITATIONS
91	Tunable exciton binding energy in 2D hybrid layered perovskites through donor–acceptor interactions within the organic layer. Nature Chemistry, 2020, 12, 672-682.	13.6	120
92	Cation Engineering in Two-Dimensional Ruddlesden–Popper Lead Iodide Perovskites with Mixed Large A-Site Cations in the Cages. Journal of the American Chemical Society, 2020, 142, 4008-4021.	13.7	101
93	Strongly Emissive Leadâ€Free 0D Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> Perovskites Synthesized by a Room Temperature Solvent Evaporation Crystallization for Downâ€Conversion Lightâ€Emitting Devices and Fluorescent Inks. Advanced Optical Materials, 2020, 8, 1901723.	7.3	109
94	First-principles investigation on the stability and material properties of all-inorganic cesium lead iodide perovskites CsPbI3 polymorphs. Physica B: Condensed Matter, 2020, 585, 412118.	2.7	50
95	Control of Crystal Symmetry Breaking with Halogen-Substituted Benzylammonium in Layered Hybrid Metal-Halide Perovskites. Journal of the American Chemical Society, 2020, 142, 5060-5067.	13.7	65
96	Organic additive engineering toward efficient perovskite lightâ€emitting diodes. InformaÄnÃ-Materiály, 2020, 2, 1095-1108.	17.3	26
97	Advances in two-dimensional organic–inorganic hybrid perovskites. Energy and Environmental Science, 2020, 13, 1154-1186.	30.8	420
98	Bismuth-Based Zero-Dimensional Perovskite-like Materials: Effect of Benzylammonium on Dielectric Confinement and Photoconductivity. Chemistry of Materials, 2020, 32, 2647-2652.	6.7	27
99	Interfacial Electromechanics Predicts Phase Behavior of 2D Hybrid Halide Perovskites. ACS Nano, 2020, 14, 3353-3364.	14.6	11
100	Coordination Engineering of Singleâ€Crystal Precursor for Phase Control in Ruddlesden–Popper Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1904050.	19.5	56
101	Rigid Amineâ€Induced Pseudoâ€3 D Leadâ€Free Bismuth Halide Perovskite with an Improved Band Edge for Visibleâ€Light Absorption. ChemSusChem, 2020, 13, 2753-2760.	6.8	13
102	Fluorination of Organic Spacer Impacts on the Structural and Optical Response of 2D Perovskites. Frontiers in Chemistry, 2019, 7, 946.	3.6	14
103	Materials chemistry and engineering in metal halide perovskite lasers. Chemical Society Reviews, 2020, 49, 951-982.	38.1	263
104	Multilayered 2D Cesiumâ€Based Hybrid Perovskite with Strong Polarization Sensitivity: Dimensional Reduction of CsPbBr <sub>3</sub> . Chemistry - A European Journal, 2020, 26, 3494-3498.	3.3	16
105	Dual-source vacuum deposition of pure and mixed halide 2D perovskites: thin film characterization and processing guidelines. Journal of Materials Chemistry C, 2020, 8, 1902-1908.	5.5	15
106	Elucidating the Role of the Organic Cation in Tuning the Optical Response of Two-Dimensional Organic–Inorganic Halide Perovskites by Computational Investigation. Journal of Physical Chemistry C, 2020, 124, 3224-3232.	3.1	4
107	Dimension-Tunable Circularly Polarized Luminescent Nanoassemblies with Emerging Selective Chirality and Energy Transfer. ACS Nano, 2020, 14, 2373-2384.	14.6	51
108	Stoichiometry Control for the Tuning of Grain Passivation and Domain Distribution in Green Quasiâ€2D Metal Halide Perovskite Films and Lightâ€Emitting Diodes. Advanced Functional Materials, 2020, 30, 2001816.	14.9	41

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109	Metal Coordination Sphere Deformation Induced Highly Stokes‣hifted, Ultra Broadband Emission in 2D Hybrid Leadâ€Bromide Perovskites and Investigation of Its Origin. Angewandte Chemie, 2020, 132, 10883-10888.	2.0	7
110	Metal Coordination Sphere Deformation Induced Highly Stokesâ€Shifted, Ultra Broadband Emission in 2D Hybrid Leadâ€Bromide Perovskites and Investigation of Its Origin. Angewandte Chemie - International Edition, 2020, 59, 10791-10796.	13.8	42
111	Halogen-containing semiconductors: From artificial photosynthesis to unconventional computing. Coordination Chemistry Reviews, 2020, 415, 213316.	18.8	21
112	Insights on the opto-electronic structure of the inorganic mixed halide perovskites γ-CsPb(I1-xBrx)3 with low symmetry black phase. Journal of Alloys and Compounds, 2020, 832, 154847.	5.5	17
113	Frenkel–Holstein Hamiltonian applied to absorption spectra of quaterthiophene-based 2D hybrid organic–inorganic perovskites. Journal of Chemical Physics, 2020, 152, 144702.	3.0	8
114	Recent advances in synthesis and application of perovskite quantum dot based composites for photonics, electronics and sensors. Science and Technology of Advanced Materials, 2020, 21, 278-302.	6.1	34
115	Calculation of the biexciton shift in nanocrystals of inorganic perovskites. Physical Review B, 2020, 101, .	3.2	13
116	Exciton diffusion in two-dimensional metal-halide perovskites. Nature Communications, 2020, 11, 2035.	12.8	113
117	Anisotropic 2D excitons unveiled in organic–inorganic quantum wells. Materials Horizons, 2021, 8, 197-208.	12.2	17
118	The Key Role of the Interface in the Highly Sensitive Mechanochromic Luminescence Properties of Hybrid Perovskites. Angewandte Chemie, 2021, 133, 847-852.	2.0	2
119	Highly Thermostable and Efficient Formamidiniumâ€Based Lowâ€Đimensional Perovskite Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 856-864.	13.8	75
120	Highly Thermostable and Efficient Formamidiniumâ€Based Lowâ€Dimensional Perovskite Solar Cells. Angewandte Chemie, 2021, 133, 869-877.	2.0	12
121	Recent progress in low dimensional (quasi-2D) and mixed dimensional (2D/3D) tin-based perovskite solar cells. Sustainable Energy and Fuels, 2021, 5, 34-51.	4.9	24
122	Deterministic fabrication of arbitrary vertical heterostructures of two-dimensional Ruddlesden–Popper halide perovskites. Nature Nanotechnology, 2021, 16, 159-165.	31.5	90
123	Efficient interlayer exciton transport in two-dimensional metal-halide perovskites. Materials Horizons, 2021, 8, 639-644.	12.2	15
124	Dielectric confinement for designing compositions and optoelectronic properties of 2D layered hybrid perovskites. Physical Chemistry Chemical Physics, 2021, 23, 82-93.	2.8	24
125	Spin-Dependent Photovoltaic and Photogalvanic Responses of Optoelectronic Devices Based on Chiral Two-Dimensional Hybrid Organic–Inorganic Perovskites. ACS Nano, 2021, 15, 588-595.	14.6	85
126	The Physics of Interlayer Exciton Delocalization in Ruddlesden–Popper Lead Halide Perovskites. Nano Letters, 2021, 21, 405-413.	9.1	22

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127	Determination of Dielectric Functions and Exciton Oscillator Strength of Two-Dimensional Hybrid Perovskites. , 2021, 3, 148-159.		47
128	Leadâ€Free Halide Double Perovskites: Structure, Luminescence, and Applications. Small Structures, 2021, 2, 2000071.	12.0	71
129	The Key Role of the Interface in the Highly Sensitive Mechanochromic Luminescence Properties of Hybrid Perovskites. Angewandte Chemie - International Edition, 2021, 60, 834-839.	13.8	8
130	Enhanced Photocurrent of All-Inorganic Two-Dimensional Perovskite Cs <sub>2</sub> Pbl <sub>2</sub> Cl <sub>2</sub> via Pressure-Regulated Excitonic Features. Journal of the American Chemical Society, 2021, 143, 2545-2551.	13.7	79
131	Abnormal spatial heterogeneity governing the charge-carrier mechanism in efficient Ruddlesden–Popper perovskite solar cells. Energy and Environmental Science, 2021, 14, 4915-4925.	30.8	24
132	The 2D Halide Perovskite Rulebook: How the Spacer Influences Everything from the Structure to Optoelectronic Device Efficiency. Chemical Reviews, 2021, 121, 2230-2291.	47.7	506
133	Overcoming the carrier transport limitation in Ruddlesden–Popper perovskite films by using lamellar nickel oxide substrates. Journal of Materials Chemistry A, 2021, 9, 11741-11752.	10.3	28
134	First-principles study of photoelectric properties of CsSnBr <sub>3</sub> under hydrostatic pressure. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 158801.	0.5	4
135	Organic–inorganic hybrid and inorganic halide perovskites: structural and chemical engineering, interfaces and optoelectronic properties. Journal Physics D: Applied Physics, 2021, 54, 133002.	2.8	27
136	Broadband and massive Stokes shift luminescence in fully inorganic 2D-layered perovskite CsPb <sub>2</sub> Cl <sub>5</sub> : single crystal growth and self-trapped exciton emission. Journal of Materials Chemistry C, 2021, 9, 7374-7383.	5.5	10
137	Wafer-sized 2D perovskite single crystal thin films for UV photodetectors. Journal of Materials Chemistry C, 2021, 9, 6498-6506.	5.5	26
138	Dynamic Motion of Organic Spacer Cations in Ruddlesden–Popper Lead Iodide Perovskites Probed by Solid-State NMR Spectroscopy. Chemistry of Materials, 2021, 33, 642-656.	6.7	33
139	Engineering fluorinated-cation containing inverted perovskite solar cells with an efficiency of >21% and improved stability towards humidity. Nature Communications, 2021, 12, 52.	12.8	94
140	Layer number dependent exciton dissociation and carrier recombination in 2D Ruddlesden–Popper halide perovskites. Journal of Materials Chemistry C, 2021, 9, 8966-8974.	5.5	18
141	Tetrazine molecules as an efficient electronic diversion channel in 2D organic–inorganic perovskites. Materials Horizons, 2021, 8, 1547-1560.	12.2	24
142	Compact TiO2 blocking-layer prepared by LbL for perovskite solar cells. Solar Energy, 2021, 214, 510-516.	6.1	7
143	0D, 1D, and 2D Supramolecular Nanoassemblies of a Porphyrin: Controllable Assembly, and Dimensionalityâ€Dependent Catalytic Performances. Advanced Functional Materials, 2021, 31, 2100367.	14.9	26
144	FA <sub>2</sub> PbBr <sub>4</sub> : Synthesis, Structure, and Unusual Optical Properties of Two Polymorphs of Formamidinium-Based Layered (110) Hybrid Perovskite. Chemistry of Materials, 2021, 33, 1900-1907.	6.7	33

#	Article	IF	CITATIONS
145	Oriented Perovskite Growth Regulation Enables Sensitive Broadband Detection and Imaging of Polarized Photons Covering 300–1050Ânm. Advanced Materials, 2021, 33, e2003852.	21.0	32
146	Nonlinear Photonics Using Lowâ€Dimensional Metalâ€Halide Perovskites: Recent Advances and Future Challenges. Advanced Materials, 2021, 33, e2004446.	21.0	58
147	Insight on the Stability of Thick Layers in 2D Ruddlesden–Popper and Dion–Jacobson Lead Iodide Perovskites. Journal of the American Chemical Society, 2021, 143, 2523-2536.	13.7	79
148	Layer Shift Factor in Layered Hybrid Perovskites: Univocal Quantitative Descriptor of Composition–Structure–Property Relationships. Chemistry of Materials, 2021, 33, 1213-1217.	6.7	24
149	Neural Networks for Analysis of Optical Properties in 2D Layered Hybrid Lead Halide Perovskites. Journal of Physical Chemistry C, 2021, 125, 5251-5259.	3.1	7
150	Mapping the Trapâ€State Landscape in 2D Metalâ€Halide Perovskites Using Transient Photoluminescence Microscopy. Advanced Optical Materials, 2021, 9, 2001875.	7.3	15
151	Anion Exchange of Ruddlesden–Popper Lead Halide Perovskites Produces Stable Lateral Heterostructures. Journal of the American Chemical Society, 2021, 143, 5212-5221.	13.7	37
152	High-performance quasi-2D perovskite light-emitting diodes: from materials to devices. Light: Science and Applications, 2021, 10, 61.	16.6	235
153	A Multi-Dimensional Perspective on Electronic Doping in Metal Halide Perovskites. ACS Energy Letters, 2021, 6, 1104-1123.	17.4	38
154	The photophysics of Ruddlesden-Popper perovskites: A tale of energy, charges, and spins. Applied Physics Reviews, 2021, 8, .	11.3	34
155	Engineering the Optical Emission and Robustness of Metalâ€Halide Layered Perovskites through Ligand Accommodation. Advanced Materials, 2021, 33, e2008004.	21.0	23
156	Cooperative Nature of Ferroelectricity in Two-Dimensional Hybrid Organic–Inorganic Perovskites. Nano Letters, 2021, 21, 3170-3176.	9.1	20
157	Cation Engineering for Resonant Energy Level Alignment in Two-Dimensional Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2021, 12, 2528-2535.	4.6	17
158	Engineering Elastic Properties of Isostructural Molecular Perovskite Ferroelectrics via Bâ€ <del>S</del> ite Substitution. Small, 2021, 17, e2006021.	10.0	18
159	Metal-Free Photocatalysis: Two-Dimensional Nanomaterial Connection toward Advanced Organic Synthesis. ACS Nano, 2021, 15, 3621-3630.	14.6	81
160	Layered Arrangement of 1D Wavy Chains in the Leadâ€Free Hybrid Perovskite (PyrCO <sub>2</sub> H) <sub>2</sub> Bil <sub>5</sub> : Structural Investigations and Properties. European Journal of Inorganic Chemistry, 2021, 2021, 1452-1458.	2.0	5
161	Dualâ€Stimuliâ€Responsive Photoluminescence of Enantiomeric Twoâ€Dimensional Lead Halide Perovskites. Advanced Optical Materials, 2021, 9, 2100003.	7.3	38
162	Spacer Engineering Using Aromatic Formamidinium in 2D/3D Hybrid Perovskites for Highly Efficient Solar Cells. ACS Nano, 2021, 15, 7811-7820.	14.6	99

#	Article	IF	CITATIONS
163	Organic Spacers in 2D Perovskites: General Trends and Structureâ€Property Relationships from Computational Studies. Helvetica Chimica Acta, 2021, 104, e2000232.	1.6	6
164	Theoretical Study on the Carrier Mobility and Optical Properties of CsPbI <sub>3</sub> by DFT. ACS Omega, 2021, 6, 11545-11555.	3.5	41
165	Fluorinated Aromatic Formamidinium Spacers Boost Efficiency of Layered Ruddlesden–Popper Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 2072-2080.	17.4	66
166	Strongly Anharmonic Octahedral Tilting in Two-Dimensional Hybrid Halide Perovskites. ACS Nano, 2021, 15, 10153-10162.	14.6	59
167	Optical bandgap control in Al2O3/TiO2 heterostructures by plasma enhanced atomic layer deposition: Toward quantizing structures and tailored binary oxides. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 252, 119508.	3.9	9
168	Simulations of Trions and Biexcitons in Layered Hybrid Organic-Inorganic Lead Halide Perovskites. Physical Review Letters, 2021, 126, 216402.	7.8	9
169	Large Cation Engineering in Two-Dimensional Silver–Bismuth Bromide Double Perovskites. Chemistry of Materials, 2021, 33, 4688-4700.	6.7	25
170	The Role of Dimensionality on the Optoelectronic Properties of Oxide and Halide Perovskites, and their Halide Derivatives. Advanced Energy Materials, 2022, 12, 2100499.	19.5	66
171	Facile synthesis of perovskite phosphors and nanocrystals using laundry detergent by ultra-rapid freezing for light-emitting diodes application. Journal of Luminescence, 2021, 233, 117902.	3.1	5
172	Twoâ€Dimensional Guanidineâ€Based Hybrid Perovskites with Strong Dichroism for Multiwavelength Polarizationâ€Sensitive Detection. Chemistry - A European Journal, 2021, 27, 9267-9271.	3.3	7
173	An Overview for Zeroâ€Dimensional Broadband Emissive Metalâ€Halide Single Crystals. Advanced Optical Materials, 2021, 9, 2100544.	7.3	114
174	Layered Perovskites in Solar Cells: Structure, Optoelectronic Properties, and Device Design. Advanced Energy Materials, 2021, 11, 2003877.	19.5	49
175	2D Lead Iodide Perovskite with Mercaptan-Containing Amine and Its Exceptional Water Stability. Inorganic Chemistry, 2021, 60, 9132-9140.	4.0	11
176	Shedding Light on the Stability and Structure–Property Relationships of Two-Dimensional Hybrid Lead Bromide Perovskites. Chemistry of Materials, 2021, 33, 5085-5107.	6.7	29
177	Study on the Dynamics of Phase Formation and Degradation of 2D Layered Hybrid Perovskites and Lowâ€dimensional Hybrids Containing Monoâ€functionalized Oligothiophene Cations. ChemNanoMat, 2021, 7, 1013-1019.	2.8	4
178	Advances of Nonlinear Photonics in Lowâ€Dimensional Halide Perovskites. Small, 2021, 17, e2100809.	10.0	39
179	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
180	Recent progress in stabilizing perovskite solar cells through two-dimensional modification. APL Materials, 2021, 9, .	5.1	12

#	Article	IF	Citations
181	Morphological Engineering of Inorganic Semiconductor VIS-Light-Driven Nanocatalysts: Experimental and Theoretical Understandings. Journal of Physical Chemistry C, 2021, 125, 15125-15133.	3.1	8
182	Single-crystal halide perovskites: Opportunities and challenges. Matter, 2021, 4, 2266-2308.	10.0	35
183	Bismuth/Silver-Based Two-Dimensional Iodide Double and One-Dimensional Bi Perovskites: Interplay between Structural and Electronic Dimensions. Chemistry of Materials, 2021, 33, 6206-6216.	6.7	27
184	Oriented Halide Perovskite Nanostructures and Thin Films for Optoelectronics. Chemical Reviews, 2021, 121, 12112-12180.	47.7	70
185	Ligand size effects in two-dimensional hybrid copper halide perovskites crystals. Communications Materials, 2021, 2, .	6.9	12
186	ELECTRONIC AND OPTICAL MODIFICATION OF ORGANIC-HYBRID PEROVSKITES. Surface Review and Letters, 2021, 28, 2140010.	1.1	1
187	Tuning Hybrid exciton–Photon Fano Resonances in Two-Dimensional Organic–Inorganic Perovskite Thin Films. Nano Letters, 2021, 21, 6124-6131.	9.1	11
188	Layered metal halide perovskite solar cells: A review from structureâ€properties perspective towards maximization of their performance and stability. EcoMat, 2021, 3, e12124.	11.9	27
189	Rational alloying of secondary and aromatic ammonium cations in a metal-halide perovskite toward crystal-array photodetection. Science China Materials, 2022, 65, 179-185.	6.3	11
190	Tight-binding description of inorganic lead halide perovskites in cubic phase. Computational Materials Science, 2021, 196, 110535.	3.0	5
191	New Variants of (110)â€Oriented Layered Lead Bromide Perovskites, Templated by Formamidinium or Pyrazolium. European Journal of Inorganic Chemistry, 2021, 2021, 3404-3411.	2.0	7
192	Structural and Optoelectronic Properties of Two-Dimensional Ruddlesden–Popper Hybrid Perovskite CsSnBr3. Nanomaterials, 2021, 11, 2119.	4.1	7
193	A Covalent Organic–Inorganic Hybrid Superlattice Covered with Organic Functional Groups for Highly Sensitive and Selective Gas Sensing. Angewandte Chemie, 2021, 133, 19862-19866.	2.0	7
194	Photophysics of Twoâ€Dimensional Perovskites—Learning from Metal Halide Substitution. Advanced Functional Materials, 2021, 31, 2103778.	14.9	41
195	A Covalent Organic–Inorganic Hybrid Superlattice Covered with Organic Functional Groups for Highly Sensitive and Selective Gas Sensing. Angewandte Chemie - International Edition, 2021, 60, 19710-19714.	13.8	32
196	First-principles calculations to investigate structural, elastic, electronic and optical properties of lead-free perovskite derivatives Cs2SeX6 (X=Cl, Br, I). Optical Materials, 2021, 119, 111316.	3.6	29
197	Mechanics-coupled stability of metal-halide perovskites. Matter, 2021, 4, 2765-2809.	10.0	43
198	Two-Dimensional Materials for Advanced Solar Cells. , 0, , .		0

#	Article	IF	CITATIONS
199	Deciphering the Orientation of the Aromatic Spacer Cation in Bilayer Perovskite Solar Cells through Spectroscopic Techniques. ACS Applied Materials & amp; Interfaces, 2021, 13, 48219-48227.	8.0	6
200	Circularly Polarized Photodetectors Based on Chiral Materials: A Review. Frontiers in Chemistry, 2021, 9, 711488.	3.6	42
201	Relationships between Distortions of Inorganic Framework and Band Gap of Layered Hybrid Halide Perovskites. Chemistry of Materials, 2021, 33, 7518-7526.	6.7	22
202	Theoretical study of physical properties of Ba3B(Nb,Ta)2O9 (B = Mg, Ca, Sr, Cd, Hg, Zn, Fe, Mn, Ni, Co) perovskites. Computational Condensed Matter, 2021, 29, e00595.	2.1	31
203	Tuning crystal orientation and charge transport of quasi-2D perovskites via halogen-substituted benzylammonium for efficient solar cells. Journal of Energy Chemistry, 2022, 66, 205-209.	12.9	10
204	lon-exchange-induced MAPbI3 thin-film 3D–2D and 3D–1D conversions: unveiling structural transformations in films via synergistic and competitive approaches. New Journal of Chemistry, 2021, 45, 7103-7108.	2.8	0
205	Growth of two-dimensional formamidine lead halide perovskite single-crystalline sheets and their optoelectronic properties. Chemical Communications, 2021, 57, 1939-1942.	4.1	3
206	Interfaces in metal halide perovskites probed by solid-state NMR spectroscopy. Journal of Materials Chemistry A, 2021, 9, 19206-19244.	10.3	28
207	Spacer Cation Alloying of a Homoconformational Carboxylate <i>trans</i> Isomer to Boost in-Plane Ferroelectricity in a 2D Hybrid Perovskite. Journal of the American Chemical Society, 2021, 143, 2130-2137.	13.7	106
208	Large-area and efficient perovskite light-emitting diodes via low-temperature blade-coating. Nature Communications, 2021, 12, 147.	12.8	100
209	Luminescence enhancement of lead halide perovskite light-emitting diodes with plasmonic metal nanostructures. Nanoscale, 2021, 13, 16427-16447.	5.6	6
210	Leadâ€Free Halide Perovskites for Light Emission: Recent Advances and Perspectives. Advanced Science, 2021, 8, 2003334.	11.2	155
211	Monofluorine substitution achieved high- <i>T</i> <sub>c</sub> dielectric transition in a one-dimensional lead bromide hybrid photoluminescent perovskite semiconductor. Materials Chemistry Frontiers, 2021, 5, 2842-2848.	5.9	12
212	A Multiaxial Layered Halide Double Perovskite Ferroelectric with Multiple Ferroic Orders. Chemistry of Materials, 2020, 32, 8965-8970.	6.7	44
213	Physical properties of bulk, defective, 2D and 0D metal halide perovskite semiconductors from a symmetry perspective. JPhys Materials, 2020, 3, 042001.	4.2	29
214	High optical nonlinearity in low-dimensional halide perovskite polycrystalline films. Optics Express, 2020, 28, 24919.	3.4	20
215	Giant room temperature electrocaloric effect in a layered hybrid perovskite ferroelectric: [(CH3)2CHCH2NH3]2PbCl4. Nature Communications, 2021, 12, 5502.	12.8	44
216	Tin Halide Perovskites: From Fundamental Properties to Solar Cells. Advanced Materials, 2022, 34, e2105844.	21.0	124

#	ARTICLE	IF	CITATIONS
217	Highly Efficient and Stable Dionâ^'Jacobson Perovskite Solar Cells Enabled by Extended π onjugation of Organic Spacer. Advanced Materials, 2021, 33, e2105083.	21.0	92
218	0D Perovskites: Unique Properties, Synthesis, and Their Applications. Advanced Science, 2021, 8, e2102689.	11.2	142
219	Manipulating Color Emission in 2D Hybrid Perovskites by Fine Tuning Halide Segregation: A Transparent Green Emitter. Advanced Materials, 2022, 34, e2105942.	21.0	24
220	Structureâ€Property Relationships and Idiosyncrasies of Bulk, 2D Hybrid Lead Bromide Perovskites. Israel Journal of Chemistry, 0, , .	2.3	9
221	Photodegradation Process of Organic Dyes in the Presence of a Manganese-Doped Zinc Sulfide Nanowire Photocatalyst. Materials, 2021, 14, 5840.	2.9	3
222	Third Harmonic Upconversion and Self-Trapped Excitonic Emission in 1D Pyridinium Lead Iodide. Journal of Physical Chemistry C, 2021, 125, 22674-22683.	3.1	10
223	Quasi-Two-Dimensional Perovskite Nanosheets Based on the Triplet Energy Acceptor Molecule with Pure Green Emission Light. Journal of Physical Chemistry C, 2021, 125, 23889-23894.	3.1	5
224	Controlling Quantum-Well Width Distribution and Crystal Orientation in Two-Dimensional Tin Halide Perovskites via a Strong Interlayer Electrostatic Interaction. ACS Applied Materials & Interfaces, 2021, 13, 49907-49915.	8.0	13
225	Narrow and broadband light emission in layered organic lead halide perovskites: interplay between weak electron-lattice interactions and defect-related effects. , 2020, , .		1
226	Interlayer Triplet-Sensitized Luminescence in Layered Two-Dimensional Hybrid Metal-Halide Perovskites. ACS Energy Letters, 2021, 6, 4079-4096.	17.4	22
227	From Zero- to One-Dimensional, Opportunities and Caveats of Hybrid Iodobismuthates for Optoelectronic Applications. Inorganic Chemistry, 2021, 60, 17123-17131.	4.0	13
228	Efficient and stable mesoscopic perovskite solar cell in high humidity by localized Dion-Jacobson 2Dâ€3D heterostructures. Nano Energy, 2022, 91, 106666.	16.0	42
229	Spacer Engineering of Diammoniumâ€Based 2D Perovskites toward Efficient and Stable 2D/3D Heterostructure Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, 2102973.	19.5	63
230	Photoluminescence studies of the resilience of 2D hybrid organic inorganic perovskite to micro-fabrication solvents. , 2020, , .		0
231	Twoâ€Dimensional Halide Perovskites: Approaches to Improve Optoelectronic Properties. Chemistry - an Asian Journal, 2022, 17, .	3.3	15
232	First-principle calculations to investigate structural, electronic, optical, thermodynamic, and thermoelectric properties of ABO3 (A=Cs, Rb and B= Ta, Nb) compounds. Emergent Materials, 2022, 5, 1831-1847.	5.7	12
233	Rigid Conjugated Diamine Templates for Stable Dion–Jacobson-Type Two-Dimensional Perovskites. Journal of the American Chemical Society, 2021, 143, 19901-19908.	13.7	39
234	Brightening of dark excitons in 2D perovskites. Science Advances, 2021, 7, eabk0904.	10.3	34

#	Article	IF	CITATIONS
235	Organic Spacer Cation Assisted Modulation of the Structure and Properties of Bismuth Halide Perovskites. Accounts of Chemical Research, 2022, 55, 275-285.	15.6	19
236	Size and Quality Enhancement of 2D Semiconducting Metal–Organic Chalcogenolates by Amine Addition. Journal of the American Chemical Society, 2021, 143, 20256-20263.	13.7	20
237	Nonadiabatic molecular dynamics analysis of hybrid Dion–Jacobson 2D leads iodide perovskites. Applied Physics Letters, 2021, 119, .	3.3	9
238	Light-activated interlayer contraction in two-dimensional perovskites for high-efficiency solar cells. Nature Nanotechnology, 2022, 17, 45-52.	31.5	52
239	Efficient Bulk Defect Suppression Strategy in FASnl <sub>3</sub> Perovskite for Photovoltaic Performance Enhancement. Advanced Functional Materials, 2022, 32, 2107710.	14.9	40
240	Cage-incorporation of secondary amine in Ruddlesden–Popper 2D hybrid perovskite with strong photoconductivity and polarization response. Journal of Materials Chemistry C, 2021, 9, 17349-17356.	5.5	12
241	Optical characteristics of self-trapped excitons in 2D (iso-BA) <sub>2</sub> PbI <sub>4</sub> perovskite crystals. Photonics Research, 2022, 10, 594.	7.0	6
242	Tailoring Phase Purity in the 2D/3D Perovskite Heterostructures Using Lattice Mismatch. ACS Energy Letters, 2022, 7, 550-559.	17.4	23
243	A bilayered two-dimensional hybrid perovskite with a cage-templated secondary cation for high efficiency photodetection. Inorganic Chemistry Frontiers, 2022, 9, 637-644.	6.0	9
244	Exploring the structural, electronic and optical properties of vacancy-ordered double perovskites Cs2TlAsX6 (X = I, Br, Cl) based on first-principles. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 427, 127917.	2.1	18
245	The magnetic and thermoelectric properties of Co- and Mn-doped CsPbI3. Emergent Materials, 2022, 5, 1859-1869.	5.7	5
246	Dynamic Exciton Polaron in Two-Dimensional Lead Halide Perovskites and Implications for Optoelectronic Applications. Accounts of Chemical Research, 2022, 55, 345-353.	15.6	36
247	Two-Dimensional Dion–Jacobson Perovskite (NH <sub>3</sub> C <sub>4</sub> H <sub>8</sub> NH <sub>3</sub> )CsPb <sub>2</sub> Br <sub>7</sub> with High X-ray Sensitivity and Peak Discrimination of α-Particles. Journal of Physical Chemistry Letters, 2022_13_1187-1193	4.6	13
248	Carrier dynamics in two-dimensional perovskites: Dion–Jacobson <i>vs.</i> Ruddlesden–Popper thin films. Journal of Materials Chemistry A, 2022, 10, 3069-3076.	10.3	30
249	Peculiar anharmonicity of Ruddlesden Popper metal halides: temperature-dependent phonon dephasing. Materials Horizons, 2022, 9, 492-499.	12.2	5
250	Tailoring Interlayered Spacers of Twoâ€Dimensional Cesiumâ€Based Perovskite Ferroelectrics toward Exceptional Ferroâ€Pyroâ€Phototronic Effects. Small, 2022, 18, e2106888.	10.0	32
251	Spatial Heterogeneity of n-Phases Leads to Different Photophysical Properties in Quasi-Two-Dimensional Methylammonium Lead Bromide Perovskite. Journal of Physical Chemistry C, 2022, 126, 478-486.	3.1	4
252	Tunable engineering of photo- and electro-induced carrier dynamics in perovskite photoelectronic devices. Science China Materials, 2022, 65, 855-875.	6.3	9

#	Article	IF	Citations
253	Ferroelectric perovskiteâ€ŧype films with robust inâ€plane polarization toward efficient room-temperature chemiresistive sensing. Fundamental Research, 2023, 3, 362-368.	3.3	9
254	Design of two-dimensional halide perovskite composites for optoelectronic applications and beyond. Materials Advances, 2022, 3, 756-778.	5.4	14
255	Understanding the role of spacer cation in 2D layered halide perovskites to achieve stable perovskite solar cells. Materials Advances, 2022, 3, 2464-2474.	5.4	7
256	Mechanochromic Luminescence of Composites Based on (CH 3 NH 3 )PbBr 3 and Layered HPs: Influence of 2D Components and Interface Multilayered Phases. European Journal of Inorganic Chemistry, 0, , .	2.0	Ο
257	Multifunctional Chiral 2D Lead Halide Perovskites with Circularly Polarized Photoluminescence and Piezoelectric Energy Harvesting Properties. ACS Nano, 2022, 16, 3221-3230.	14.6	52
258	Photophysics of Two-Dimensional Semiconducting Organic–Inorganic Metal-Halide Perovskites. Annual Review of Physical Chemistry, 2022, 73, 403-428.	10.8	18
259	Long carrier diffusion length in two-dimensional lead halide perovskite single crystals. CheM, 2022, 8, 1107-1120.	11.7	29
260	Two-dimensional material-based printed photonics: a review. 2D Materials, 2022, 9, 042003.	4.4	5
261	A Theoretical Framework for Microscopic Surface and Interface Dipoles, Work Functions, and Valence Band Alignments in 2D and 3D Halide Perovskite Heterostructures. ACS Energy Letters, 2022, 7, 349-357.	17.4	17
262	Polarization-sensitive photodetection in a two-dimensional interlayer-multiple-cation hybrid perovskite bulk single crystal. Journal of Materials Chemistry C, 2022, 10, 5882-5886.	5.5	8
263	High-Performance Blue Quasi-2D Perovskite Light-Emitting Diodes via Balanced Carrier Confinement and Transfer. Nano-Micro Letters, 2022, 14, 66.	27.0	34
264	Tolerance Factor for Stabilizing 3D Hybrid Halide Perovskitoids Using Linear Diammonium Cations. Journal of the American Chemical Society, 2022, 144, 3902-3912.	13.7	36
265	Charge-charge interaction in three-layer systems: Classical approach. Physical Review B, 2022, 105, .	3.2	0
266	Homogeneous Optical Line Widths in Hybrid Ruddlesden–Popper Metal Halides Can <i>Only</i> Be Measured Using Nonlinear Spectroscopy. Journal of Physical Chemistry C, 2022, 126, 5378-5387.	3.1	7
267	Recent Progress in Perovskite Materials Using Diammonium Organic Cations Toward Stable and Efficient Solar Cell Devices: Dion–Jacobson. Energy Technology, 2022, 10, .	3.8	9
268	Crystal Growth Regulation of 2D/3D Perovskite Films for Solar Cells with Both High Efficiency and Stability. Advanced Materials, 2022, 34, e2200705.	21.0	91
269	Thick-Layer Lead Iodide Perovskites with Bifunctional Organic Spacers Allylammonium and Iodopropylammonium Exhibiting Trap-State Emission. Journal of the American Chemical Society, 2022, 144, 6390-6409.	13.7	13
270	Crystal structure and optical properties of in situ synthesized organic-inorganic hybrid metal halides. Inorganic Chemistry Communication, 2022, 139, 109339.	3.9	4

	ΟΙΤΑΤΙΟ	N REPORT	
#	Article	IF	Citations
271	Revealing structural, elastic, electronic and optical properties of potential perovskites K2CuBiX6 (X=Br, Cl) based on first-principles. Journal of Solid State Chemistry, 2022, 310, 123046.	2.9	9
272	Femtosecond Exciton and Carrier Relaxation Dynamics of Two-Dimensional (2D) and Quasi-2D Tin Perovskites. Journal of Physical Chemistry Letters, 2021, 12, 12292-12299.	4.6	15
273	lodine–lodine Interactions Suppressing Phase Transitions of 2D Layered Hybrid (I-(CH <sub>2</sub> ) <sub><i>n</i></sub> -NH <sub>3</sub> ) <sub>2</sub> PbI <sub>4</sub> ( <i>n</i> =) Tj	ETQq <b>&amp;.0</b> 0 rg	BT1/Overlock
274	Design Principles and Insights into the Liquid-Phase Exfoliation of Alpha-MoO <sub>3</sub> for the Production of Colloidal 2D Nano-inks in Green Solvents. Journal of Physical Chemistry C, 2022, 126, 404-415.	3.1	2
275	Revealing Weak Dimensional Confinement Effects in Excitonic Silver/Bismuth Double Perovskites. Jacs Au, 2022, 2, 136-149.	7.9	12
276	CsPd0.875Cr0.12513 Promising Candidate for Thermoelectric Applications. Ukrainian Journal of Physics, 2021, 66, 1063.	0.2	4
277	A 3D Lead Iodide Hybrid Based on a 2D Perovskite Subnetwork. Crystals, 2021, 11, 1570.	2.2	2
278	Unveiling the brittleness of hybrid organic–inorganic 0-D histammonium zinc chlorometallate by nanoindentation. Applied Physics Letters, 2021, 119, 241903.	3.3	2
279	Exciton–Phonon Coupling and Low Energy Emission in 2D and Quasi-2D BA <sub>2</sub> MA <sub><i>n</i>–1</sub> Pb <sub><i>n</i></sub> I <sub>3<i>n</i>+1</sub> Thin Films with Improved Phase Purity. Journal of Physical Chemistry Letters, 2021, 12, 12336-12344.	4.6	8
280	The first principle study of structural, mechanical, electronic and optical properties of double halide perovskite K <sub>2</sub> Bl <sub>6</sub> (B = Ti, Zr and Hf). Molecular Physics, 0, , .	1.7	3
281	Optimizing Optical Properties of Hybrid Core/Shell Perovskite Nanocrystals. Inorganic Chemistry Frontiers, 0, , .	6.0	4
282	A Multifunctional Ionic Liquid Additive Enabling Stable and Efficient Perovskite Lightâ€Emitting Diodes. Small, 2022, 18, e2200498.	10.0	24
283	Toward Ecoâ€Friendly Leadâ€Free Lowâ€Dimensional Perovskites. Small Structures, 2022, 3, .	12.0	9
285	Anisotropy in a 2D Perovskite Ferroelectric Drives Selfâ€Powered Polarizationâ€Sensitive Photoresponse for Ultraviolet Solarâ€Blind Polarizedâ€Light Detection. Angewandte Chemie - International Edition, 2022, 61, .	13.8	31
286	Quasi-2D halide perovskite crystals and their optoelectronic applications. Journal of Materials Chemistry A, 2022, 10, 19169-19183.	10.3	16
287	Stoichiometric Ratio Controlled Dimension Transition and Supramolecular Chirality Enhancement in a Two-Component Assembly System. Gels, 2022, 8, 269.	4.5	1
288	Sub-angstrom noninvasive imaging of atomic arrangement in 2D hybrid perovskites. Science Advances, 2022, 8, eabj0395.	10.3	5
289	Anisotropy in a 2D Perovskite Ferroelectric Drives Selfâ€Powered Polarizationâ€Sensitive Photoresponse for Ultraviolet Solarâ€Blind Polarizedâ€Light Detection. Angewandte Chemie, 2022, 134, . ————————————————————————————————————	2.0	7

#	Article	IF	CITATIONS
290	Highly Emissive Quasi-2D Perovskites Enabled by a Multifunctional Molecule for Bright Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2022, 14, 21636-21644.	8.0	13
291	Single crystal, a lead-free hybrid organic-inorganic perovskite material: {[(C6H5)NH3]+}4.I.[Bil6]3H2O with optical and third-order nonlinear properties. Journal of Solid State Chemistry, 2022, , 123181.	2.9	1
292	Structure, optical and magnetic properties of the pyridinium cobaltate (C6H9N2)2[CoCl4]. Inorganica Chimica Acta, 2022, 539, 121003.	2.4	2
293	Insights on structural, elastic, electronic and optical properties of double-perovskite halides Rb2CuBiX6 (X=Br, Cl). Journal of Physics and Chemistry of Solids, 2022, 167, 110791.	4.0	14
294	Origin and physical effects of edge states in two-dimensional Ruddlesden-Popper perovskites. IScience, 2022, 25, 104420.	4.1	8
295	Crystallization regulation of solution-processed two-dimensional perovskite solar cells. Journal of Materials Chemistry A, 2022, 10, 13625-13650.	10.3	11
296	Two-dimensional Dion-Jacobson halide perovskites as new-generation light absorbers for perovskite solar cells. Renewable and Sustainable Energy Reviews, 2022, 166, 112614.	16.4	39
297	Modulated luminescence of zero-dimensional bimetallic all-inorganic halide clusters. Inorganic Chemistry Frontiers, 2022, 9, 3728-3736.	6.0	3
298	Spin-polarized excitons and charge carriers in chiral metal halide semiconductors. Journal of Materials Chemistry A, 2022, 10, 19367-19386.	10.3	10
299	Morphology and temperature dependence of a dual excitonic emissive 2D bromoplumbate hybrid perovskite: the key role of crystal edges. Journal of Materials Chemistry C, 2022, 10, 10284-10291.	5.5	2
300	Engineering van der Waals Materials for Advanced Metaphotonics. Chemical Reviews, 2022, 122, 15204-15355.	47.7	33
301	Metal Halide Perovskites for Redâ€Emission Lightâ€Emitting Diodes. Small Structures, 2022, 3, .	12.0	15
302	Universal Bifacial Stamping Approach Enabling Reverseâ€Graded Ruddlesdenâ€Popper 2D Perovskite Solar Cells. Small, 2022, 18, .	10.0	6
303	Luminescence and nonlinear optical properties of stable MAPbBr <sub>3</sub> quantum dots in SiO <sub>2</sub> mesopores. Journal of Nonlinear Optical Physics and Materials, 0, , .	1.8	0
304	Band Edge Engineering of 2D Perovskite Structures through Spacer Cation Engineering for Solar Cell Applications. Journal of Physical Chemistry C, 2022, 126, 9937-9947.	3.1	6
305	Revealing the Transient Formation Dynamics and Optoelectronic Properties of 2D Ruddlesdenâ€Popper Phases on 3D Perovskites. Advanced Energy Materials, 2023, 13, .	19.5	14
306	Synthesis and Characterization of (FA) <sub>3</sub> (HEA) <sub>2</sub> Pb <sub>3</sub> I <sub>11</sub> : A Rare Example of <1 1 0>-Oriented Multilayered Halide Perovskites. Chemistry of Materials, 2022, 34, 5780-5790.	6.7	2
307	Ordered Mixed-Spacer 2D Bromide Perovskites and the Dual Role of 1,2,4-Triazolium Cation. Chemistry of Materials, 2022, 34, 6541-6552.	6.7	5

#	Article	IF	CITATIONS
308	Structural Asymmetry and Chiroptical Activity of Chiral Antimonyâ€Halide Hybrids. European Journal of Inorganic Chemistry, 0, , .	2.0	10
309	Ruddlesden–Popper Perovskites with Narrow Phase Distribution for Airâ€Stable Solar Cells. Solar Rrl, 2022, 6, .	5.8	4
310	Acetamidinium-Methylammonium-Based Layered Hybrid Halide Perovskite [CH3C(NH2)2][CH3NH3]PbI4: Synthesis, Structure, and Optical Properties. Russian Journal of Inorganic Chemistry, 2022, 67, 997-1003.	1.3	5
311	Highest EQE of NIR PeLEDs With p-i-n Architecture Achieved via Surface Passivation and Lithium Fluoride Ultrathin Interfacial Layer. SSRN Electronic Journal, 0, , .	0.4	0
312	Highâ€Efficiency Blue Perovskite Lightâ€Emitting Diodes with Improved Photoluminescence Quantum Yield via Reducing Trapâ€Induced Recombination and Exciton–Exciton Annihilation. Advanced Functional Materials, 2022, 32, .	14.9	16
313	Layered Hybrid Lead Iodide Perovskites with Short Interlayer Distances. ACS Energy Letters, 2022, 7, 2801-2806.	17.4	8
314	Bright and tunable emissive monodisperse CsPbI3@Cs4PbI6 nanocomposites via a precise and controllable dissolution—recrystallization method. Nano Research, 2023, 16, 1586-1594.	10.4	5
315	The Unprecedented Highest‣ayerâ€Number Ferroelectric Semiconductor of 2D Homologous Singleâ€Phase Perovskites Tailored by Regulating Thickness of Inorganic Frameworks. Advanced Functional Materials, 2022, 32, .	14.9	22
316	Regulation of Quantum Wells Width Distribution in 2D Perovskite Films for Photovoltaic Application. Advanced Functional Materials, 2022, 32, .	14.9	29
317	Selfâ€trapped exciton states in metal halide perovskites van der Waals heterostructures. Physica Status Solidi - Rapid Research Letters, 0, , .	2.4	0
318	Exploring the Steric Hindrance of Alkylammonium Cations in the Structural Reconfiguration of Quasiâ€2D Perovskite Materials Using a Highâ€throughput Experimental Platform. Advanced Functional Materials, 2022, 32, .	14.9	12
319	Expanding the absorption and photoresponse of 1D lead–halide perovskites via ultrafast charge transfer. Journal of Chemical Physics, 2022, 157, .	3.0	6
320	Blueâ€Lightâ€Excited Leadâ€Free Double Perovskite Cs <sub>2</sub> Ag <sub>0.6</sub> Na <sub>0.4</sub> In <sub>0.8</sub> Bi <sub>0.2</sub> Cl <sub>6</sub> / <i>&gt; at Room Temperature and Photovoltaic Applications. Advanced Optical Materials, 2022, 10, .</i>	<< <b>∄x</b> ⊀Br(K	l) 9
321	Tunable photostriction of halide perovskites through energy dependent photoexcitation. Physical Review Materials, 2022, 6, .	2.4	5
322	Low-dimensional Sn-based perovskites: Evolution and future prospects of solar cells. CheM, 2022, 8, 2939-2960.	11.7	20
323	Photocatalytic activity of a hydrothermally synthesized γ-Fe2O3@Au/MoS2 heterostructure for organic dye degradation under green light. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 433, 114186.	3.9	5
324	Constructing 2D passivation layer on perovskites based on 3-chlorobenzylamine enables efficient and stable perovskite solar cells. Journal of Alloys and Compounds, 2022, 926, 166891.	5.5	10
325	The chemistry and physics of organic—inorganic hybrid perovskite quantum wells. Science China Chemistry, 2022, 65, 2058-2076.	8.2	5

#	Article	IF	Citations
326	Hydrostatic pressure-tuning of photoelectric properties of perovskite Cs2SeI6 through first-principles investigation. Materials Today Communications, 2022, 33, 104435.	1.9	1
327	Study on the structural, electronic and optical properties of double-perovskite halides Cs2AgSbX6 (X=I, Br, Cl) based on first-principles. Materials Science in Semiconductor Processing, 2022, 152, 107077.	4.0	16
328	A comparative study of the mechanical stability, electronic, optical and photocatalytic properties of CsPbX <sub>3</sub> (X = Cl, Br, I) by DFT calculations for optoelectronic applications. RSC Advances, 2022, 12, 23704-23717.	3.6	12
329	Exciton-Phonon Coupling in Alanine-based Hybrid Lead Bromide. Materials Advances, 0, , .	5.4	0
330	Achieving circularly polarized luminescence and large piezoelectric response in hybrid rare-earth double perovskite by a chirality induction strategy. Materials Horizons, 2022, 9, 2450-2459.	12.2	20
331	[PbX <sub>6</sub> ] <sup>4â^'</sup> modulation and organic spacer construction for stable perovskite solar cells. Energy and Environmental Science, 2022, 15, 4470-4510.	30.8	16
332	Recent progress of single-halide perovskite nanocrystals for advanced displays. Nanoscale, 2022, 14, 13990-14007.	5.6	5
333	Spacer Engineering for 2D Ruddlesden–Popper Perovskites with an Ultralong Carrier Lifetime of Over 18 μs Enable Efficient Solar Cells. ACS Energy Letters, 2022, 7, 3656-3665.	17.4	17
334	Liquid-Phase van der Waals Epitaxy of a Few-Layer and Unit-Cell Thick Ruddlesden–Popper Halide Perovskite. Journal of the American Chemical Society, 2022, 144, 17588-17596.	13.7	3
335	Centimeter-size single crystal of a lead-free double perovskite for broad-spectrum polarization-sensitive detection. Journal of Materials Chemistry C, 2022, 10, 18063-18068.	5.5	4
336	Structure-related bandgap of hybrid lead halide perovskites and close-packed APbX <sub>3</sub> family of phases. Journal of Materials Chemistry C, 2022, 10, 16838-16846.	5.5	4
337	A room-temperature antiferroelectric in hybrid perovskite enables highly efficient energy storage at low electric fields. Chemical Science, 2022, 13, 13499-13506.	7.4	16
338	Application of perovskites in bioimaging: the state-of-the-art and future developments. Expert Review of Molecular Diagnostics, 2022, 22, 867-880.	3.1	6
339	Tailoring the Quantum Well Structure and Distribution of Reduced-Dimensional Perovskites for Charge Dynamics Optimization. ACS Energy Letters, 2022, 7, 3917-3926.	17.4	2
340	Ultrafast Excitonic Response in Two-Dimensional Hybrid Perovskites Driven by Intense Midinfrared Pulses. Physical Review Letters, 2022, 129, .	7.8	5
341	Machine Learningâ€Assisted Microfluidic Synthesis of Perovskite Quantum Dots. Advanced Photonics Research, 2023, 4, .	3.6	5
342	Oriented Lowâ€n Ruddlesdenâ€Popper Formamidiniumâ€Based Perovskite for Efficient and Air Stable Solar Cells. Advanced Energy Materials, 2022, 12, .	19.5	25
343	Using the Diamagnetic Coefficients to Estimate the Reduced Effective Mass in 2D Layered Perovskites: New Insight from High Magnetic Field Spectroscopy. International Journal of Molecular Sciences, 2022, 23, 12531.	4.1	0

#	Article	IF	CITATIONS
344	Structural Dimensionality Dependence of the Band Gap in A <sub><i>n</i>+1</sub> B <sub><i>n</i></sub> X <sub>3<i>n</i>+1</sub> Ruddlesden–Popper Perovskites: A Global Picture. Journal of Physical Chemistry Letters, 2022, 13, 9632-9641.	4.6	2
345	Quasi-2D Ruddlesden–Popper Lead Halide Perovskites: How Edge Matters. Journal of Physical Chemistry Letters, 2022, 13, 9875-9882.	4.6	2
346	Orbital Interactions between the Organic Semiconductor Spacer and the Inorganic Layer in Dion–Jacobson Perovskites Enable Efficient Solar Cells. Advanced Materials, 2023, 35, .	21.0	25
347	Ferroelectric hybrid organic–inorganic perovskites and their structural and functional diversity. National Science Review, 2023, 10, .	9.5	47
348	Photo-dynamics in 2D materials: Processes, tunability and device applications. Physics Reports, 2022, 993, 1-70.	25.6	4
349	Hot-carrier tunable abnormal nonlinear absorption conversion in quasi-2D perovskite. Nature Communications, 2022, 13, .	12.8	10
350	Ground-state structures, electronic structure, transport properties and optical properties of Ca-based anti-Ruddlesden-Popper phase oxide perovskites. Physical Review Materials, 2022, 6, .	2.4	3
351	Multilayered Alternatingâ€Cationsâ€Intercalation Chiral Hybrid Perovskites with High Circular Polarization Sensitivity. Small, 2022, 18, .	10.0	12
352	Halide Chemistry in Tin Perovskite Optoelectronics: Bottlenecks and Opportunities. Angewandte Chemie - International Edition, 2023, 62, .	13.8	12
353	Halide Chemistry in Tin Perovskite Optoelectronics: Bottlenecks and Opportunities. Angewandte Chemie, 2023, 135, .	2.0	1
354	Onset of vacancy-mediated high activation energy leads to large ionic conductivity in two-dimensional layered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:mrow> <mml:msub> <mml:mi>Cs</mml:mi> <mml:m Ruddlesden-Popper halide perovskite. Physical Review Materials, 2022, 6, .</mml:m </mml:msub></mml:mrow></mml:math 	ın>24 /mm	l:mn>
355	Asymmetric Diammonium Directed In-Plane Charge Transport Enhancement in Two-Dimensional Lead Bromide Perovskite for Weak-Light Detection. ACS Applied Materials & Interfaces, 2022, 14, 53065-53073.	8.0	5
356	Review on the promising roles of alkali metals toward highly efficient perovskite light-emitting diodes. Journal of Materials Chemistry C, 2023, 11, 2011-2025.	5.5	3
357	Connecting the dots for fundamental understanding of structure–photophysics–property relationships of COFs, MOFs, and perovskites using a Multiparticle Holstein Formalism. Chemical Science, 2023, 14, 1040-1064.	7.4	2
358	Circularly Polarized Photoluminescence of Chiral 2D Halide Perovskites at Room Temperature. ACS Applied Materials & Interfaces, 2022, 14, 54090-54100.	8.0	1
359	Acquiring a Newly Tailored 2D Dion–Jacobson Hybrid Perovskite with Large Structural Distortion for Efficient Crystal Array Photodetector. Advanced Optical Materials, 2023, 11, .	7.3	9
360	Boosting Charge Transport in a 2D/3D Perovskite Heterostructure by Selecting an Ordered 2D Perovskite as the Passivator. Angewandte Chemie, 2023, 135, .	2.0	5
361	Improving the efficiency of near-IR perovskite LEDs via surface passivation and ultrathin interfacial layers. Cell Reports Physical Science, 2022, 3, 101170.	5.6	5

#	ARTICLE	IF	CITATIONS
362	Boosting Charge Transport in a 2D/3D Perovskite Heterostructure by Selecting an Ordered 2D Perovskite as the Passivator. Angewandte Chemie - International Edition, 2023, 62, .	13.8	6
363	Effect of â€~Fluorophenylammonium' and â€~Fluorophenethylammonium' as Spacer on the Photo(electro)chemical and Photocatalytic Behaviour of Mixed Halide Based Layered Perovskites. ChemistrySelect, 2022, 7, .	1.5	1
364	Large Exciton Polaron Formation in 2D Hybrid Perovskites via Time-Resolved Photoluminescence. ACS Nano, 2022, 16, 21259-21265.	14.6	5
365	Recent progress in perovskite solar cells: material science. Science China Chemistry, 2023, 66, 10-64.	8.2	53
366	Crystallization Pathways of FABr-PbBr2-DMF and FABr-PbBr2-DMSO Systems: The Comprehensive Picture of Formamidinium-Based Low-Dimensional Perovskite-Related Phases and Intermediate Solvates. International Journal of Molecular Sciences, 2022, 23, 15344.	4.1	2
367	Silicon surface lattice resonances and halide perovskite semiconductors for exciton-polaritons at room temperature. Optical Materials Express, 2023, 13, 179.	3.0	0
368	Influence of interaction between organic cation and inorganic unit in bi-based hybrid perovskites for photoelectronic properties. Heliyon, 2022, 8, e12528.	3.2	0
369	Addressing the Role of 2D Domains in Highâ€Dimensionality Ruddlesden–Popper Perovskite for Solar Cells. Solar Rrl, 0, , 2200860.	5.8	0
370	Hybrid perovskites under pressure: Present and future directions. Journal of Applied Physics, 2022, 132, .	2.5	4
371	Metal Halide Perovskite Alloy: Fundamental, Optoelectronic Properties and Applications. Advanced Photonics Research, 2023, 4, .	3.6	4
372	Linear optical afterglow and nonlinear optical harmonic generation from chiral tin( <scp>iv</scp> ) halides: the role of lattice distortions. Materials Horizons, 2023, 10, 1005-1011.	12.2	9
373	Structural investigation of titanium oxide nanowires with unconventional optoelectronic behaviour. Physical Chemistry Chemical Physics, 2023, 25, 5648-5655.	2.8	1
374	Impact of two diammonium cations on the structure and photophysics of layered Sn-based perovskites. Journal of Materials Chemistry C, 2023, 11, 8154-8160.	5.5	1
375	Intermolecular Interactions of A-Site Cations Modulate Stability of 2D Metal Halide Perovskites. ACS Energy Letters, 2023, 8, 748-752.	17.4	10
376	Recent progress in layered metal halide perovskites for solar cells, photodetectors, and field-effect transistors. Nanoscale, 2023, 15, 4219-4235.	5.6	8
377	Excitons and Their Fine Structure in Lead Halide Perovskite Nanocrystals from Atomistic GW/BSE Calculations. Journal of Physical Chemistry C, 2023, 127, 1891-1898.	3.1	7
378	Anisotropic Exciton-Polaritons in 2D Single-Crystalline PEA2PbBr4 Perovskites at Room Temperature. Journal Physics D: Applied Physics, 0, , .	2.8	0
379	Broadband yellow and white emission from large octahedral tilting in (110)-oriented layered perovskites: imidazolium-methylhydrazinium lead halides. Journal of Materials Chemistry C, 2023, 11, 4907-4915.	5.5	5

#	Article	IF	CITATIONS
380	Exploration of new chiral hybrid semiconducting palladium halide complexes: [(R)/(S)-2-Methylpiperazinediium]PdCl4. Materials Research Bulletin, 2023, 164, 112251.	5.2	3
381	Navigating the Site-Distinct Energy Conversion Properties of Perovskite Quantum Wells. ACS Energy Letters, 2023, 8, 1236-1265.	17.4	7
382	Eco-friendly inorganic molecular novel antiperovskites for light-emitting application. Materials Horizons, 0, , .	12.2	0
383	Achieving Efficient Lightâ€Emitting Diodes by Controlling Phase Distribution of Quasiâ€2D Perovskites. Advanced Electronic Materials, 2023, 9, .	5.1	5
384	Highâ€Efficiency Quasiâ€2D Perovskite Lightâ€Emitting Diodes Using a Dualâ€Additive Strategy Guided by Preferential Additiveâ€Precursor Interactions. Advanced Optical Materials, 2023, 11, .	7.3	3
385	Synthesis of five-layered chiral perovskite nanowires and enacting chiroptical activity regulation. Cell Reports Physical Science, 2023, 4, 101299.	5.6	4
386	Electron Trapping Prolongs the Lifetime of Charge-Separated States in 2D Perovskite Nanoplatelet-Hole Acceptor Complexes. Journal of Physical Chemistry Letters, 2023, 14, 2241-2250.	4.6	0
387	Exciton Ground State Fine Structure and Excited States Landscape in Layered Halide Perovskites from Combined BSE Simulations and Symmetry Analysis. Advanced Optical Materials, 0, , .	7.3	7
388	Highly Enhanced Photoluminescence Quantum Yield of Phenethylammonium Halide-Passivated Inorganic Perovskite/Cellulose Nanocrystal Films. ACS Sustainable Chemistry and Engineering, 2023, 11, 4580-4587.	6.7	0
389	Bilayered Dion–Jacobson Hybrid Perovskite Bulk Single Crystals Constructed with Aromatic Diammonium for Ultraviolet–Visible–Near-Infrared Photodetection. Chemistry of Materials, 2023, 35, 2541-2548.	6.7	10
390	Reducing dielectric confinement effect in ionic covalent organic nanosheets to promote the visible-light-driven hydrogen evolution. Journal of Energy Chemistry, 2023, 82, 40-46.	12.9	3
391	Carrier–Phonon Interaction Induced Large Negative Thermalâ€Optic Coefficient at Near Band Edge of Quasiâ€2D (PEA) <sub>2</sub> PbBr <sub>4</sub> Perovskite. Advanced Functional Materials, 2023, 33, .	14.9	2
392	Less-ordered phase distribution of quasi-2D perovskites for deep-blue light-emitting diodes enabled by a deep eutectic solvent. Organic Electronics, 2023, 118, 106792.	2.6	0
393	Halide Containing Short Organic Monocations in <i>n</i> = 1–4 2D Multilayered Halide Perovskite Thin Films and Crystals. Chemistry of Materials, 2023, 35, 2873-2883.	6.7	1
394	Energy level alignments between organic and inorganic layers in 2D layered perovskites: conjugation <i>vs</i> . substituent. Nanoscale, 0, , .	5.6	0
395	Regulation of Quantum Wells Width Distribution in Quasiâ€2D Perovskite Films for Highâ€Performance Photodetectors. Advanced Materials, 2023, 35, .	21.0	7
396	Synthesis of Li+ and Bi3+codoped Cs2AgInCl6 lead-free double perovskites. Optical Materials, 2023, 139, 113748.	3.6	1
397	Spinâ€Flip Raman Scattering on Electrons and Holes in Twoâ€Đimensional (PEA) <sub>2</sub> Pbl <sub>4</sub> Perovskites. Small, 2023, 19, .	10.0	6

#	Article	IF	CITATIONS
398	Comparing between steady-state excitonic transitions and ultrafast polaronic photoexcitations in layered perovskites: the role of electron–phonon interaction. Nanophotonics, 2023, 12, 1965-1977.	6.0	3
399	Centimeterâ€Sized Single Crystals of Dionâ€Jacobson Phase Leadâ€Free Double Perovskite for Efficient Xâ€ray Detection. Small, 2023, 19, .	10.0	4
400	Efficient and Stable Quasiâ€2D Ruddlesden–Popper Perovskite Solar Cells by Tailoring Crystal Orientation and Passivating Surface Defects. Advanced Materials, 2023, 35, .	21.0	9
401	Minimal Molecular Building Blocks for Screening in Quasi-Two-Dimensional Organic–Inorganic Lead Halide Perovskites. Nano Letters, 2023, 23, 3796-3802.	9.1	6
402	Facile method for synthesis of mixed-cation halide perovskites by mild equilibrium conversion via iodine-mediated transport reaction in inert liquid media. Mendeleev Communications, 2023, 33, 311-313.	1.6	1
403	Visible-Photoactive Perovskite Ferroelectric-Driven Self-Powered Gas Detection. Journal of the American Chemical Society, 2023, 145, 12853-12860.	13.7	12
404	Metal oxide charge transport layer targeting efficient and stable perovskite light-emitting diodes. Journal of Alloys and Compounds, 2023, 960, 170823.	5.5	1
405	Ruddlesden–Popper Perovskite Alloys: Continuous and Discontinuous Tuning of the Electronic Structure. Journal of Physical Chemistry C, 2023, 127, 9344-9353.	3.1	5
406	Domain Distribution Management of Quasiâ€2D Perovskites toward Highâ€Performance Blue Lightâ€Emitting Diodes. Advanced Functional Materials, 2023, 33, .	14.9	10
407	Manipulating the Selfâ€Trapped Excitons in the Lead Iodide/Hexagonal Boron Nitride van der Waals Heterostructures. Laser and Photonics Reviews, 0, , .	8.7	Ο
408	Inorganic "Artificial Phase―CdSe/ZnS QDs Serve as the Host Material for White Emission Quasiâ€⊋D Perovskite Light Emitting Devices. Advanced Optical Materials, 0, , .	7.3	0
409	Design Rules for Obtaining Narrow Luminescence from Semiconductors Made in Solution. Chemical Reviews, 2023, 123, 7890-7952.	47.7	12
410	Separating Crystal Growth from Nucleation Enables the In Situ Controllable Synthesis of Nanocrystals for Efficient Perovskite Lightâ€Emitting Diodes. Advanced Materials, 2023, 35, .	21.0	2
411	Quantum Confinement Breaking: Orbital Coupling in 2D Ruddlesden–Popper Perovskites Enables Efficient Solar Cells. Advanced Energy Materials, 2023, 13, .	19.5	14
412	Recent Advances and Opportunities in Lowâ€Đimensional Layered Perovskites for Emergent Applications beyond Photovoltaics. Advanced Materials Technologies, 2023, 8, .	5.8	6
413	Mixing Dion–Jacobson and Ruddlesden–Popper Structures in Quasiâ€2D Perovskite Films for Thermal― and Photoâ€Stable Stimulated Emission. Advanced Optical Materials, 2023, 11, .	7.3	1
414	Impact of cation modification on phonon-dressed exciton dynamics in a prototype two-dimensional hybrid organic–inorganic perovskite system. Journal of Chemical Physics, 2023, 158, .	3.0	0
415	Dynamic Distortions of Quasi-2D Ruddlesden–Popper Perovskites at Elevated Temperatures: Influence on Thermal and Electronic Properties. Journal of Physical Chemistry C, 2023, 127, 9183-9195.	3.1	3

#	Article	IF	Citations
416	Air-Processable Perovskite Solar Cells by Hexamine Molecule Phase Stabilization. ACS Omega, 2023, 8, 18874-18881.	3.5	4
417	Photo- and Thermal-Induced Ion Migration and Phase Separation in Mn-Doped Two-Dimensional PEA <sub>2</sub> PbX <sub>4</sub> Perovskite. ACS Applied Materials & Interfaces, 2023, 15, 33087-33094.	8.0	6
418	Realizing High Brightness Quasiâ€2D Perovskite Lightâ€Emitting Diodes with Reduced Efficiency Rollâ€Off via Multifunctional Interface Engineering. Advanced Science, 2023, 10, .	11.2	1
419	Sequential Chemical Vapor Deposition of Two-Dimensional Sn–Pb Compound Perovskite Thin Films and Its Exciton Transport. ACS Applied Electronic Materials, 0, , .	4.3	0
420	Recent Progress of Layered Perovskite Solar Cells Incorporating Aromatic Spacers. Nano-Micro Letters, 2023, 15, .	27.0	5
421	Synergy of 3D and 2D Perovskites for Durable, Efficient Solar Cells and Beyond. Chemical Reviews, 2023, 123, 9565-9652.	47.7	21
422	First-principle insight into the structural, electronic, elastic and optical properties of Cs-based double perovskites Cs <sub>2</sub> XCrCl <sub>6</sub> (X = K, Na). RSC Advances, 2023, 13, 20966-20974.	3.6	9
423	Chemical Behavior and Local Structure of the Ruddlesden–Popper and Dion–Jacobson Alloyed Pb/Sn Bromide 2D Perovskites. Journal of the American Chemical Society, 2023, 145, 15997-16014.	13.7	2
424	Realizing the Lowest Bandgap and Exciton Binding Energy in a Two-Dimensional Lead Halide System. Journal of the American Chemical Society, 2023, 145, 15896-15905.	13.7	8
425	Giant Polarization Sensitivity <i>via</i> the Anomalous Photovoltaic Effect in a Two-Dimensional Perovskite Ferroelectric. Journal of the American Chemical Society, 2023, 145, 16193-16199.	13.7	13
426	Anomalous Charge Transfer from Organic Ligands to Metal Halides in Zeroâ€Dimensional [(C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> P] <sub>2</sub> SbCl <sub>5</sub> Enabled by Pressureâ€Induced Lone Pairâ€i€ Interaction. Angewandte Chemie - International Edition, 2023, 62, .	13.8	3
427	Anomalous Charge Transfer from Organic Ligands to Metal Halides in Zeroâ€Dimensional [(C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> P] <sub>2</sub> SbCl <sub>5</sub> Enabled by Pressureâ€Induced Lone Pairâ€I€ Interaction. Angewandte Chemie, 2023, 135, .	2.0	1
428	Stacking Arrangement and Orientation of Aromatic Cations Tune Bandgap and Charge Transport of 2D Organicâ€Inorganic Hybrid Perovskites. Small, 2023, 19, .	10.0	4
429	First-principles calculations to investigate mechanical, thermoelectric and optical performance of inorganic double perovskites Rb2CuBiX6 (XÂ=ÂCl, Br, I) for energy harvesting. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2023, 297, 116768.	3.5	1
430	Structure, composition, and stability of metal halide perovskites. , 2023, , 3-47.		0
431	Perovskite nonlinear optical properties and photonics. , 2023, , 323-370.		0
432	Mechanistic origins of excitonic properties in 2D perovskites: Implications for exciton engineering. Matter, 2023, 6, 3463-3482.	10.0	6
433	Two-dimensional perovskite heterostructures for single crystal semiconductor devices. Journal of Applied Physics, 2023, 134, .	2.5	0

#	Article	IF	CITATIONS
434	Highly sensitive CO gas sensor based on ternary metal sulfides PbSbS quantum dots: Experimental and DFT study. Journal of Alloys and Compounds, 2023, 967, 171688.	5.5	2
435	Structural Features and Optical Properties of All-Inorganic Zero-Dimensional Halides Cs <sub>4</sub> PbBr <sub>6–<i>x</i></sub> I <i><sub>x</sub></i> Obtained by Mechanochemistry. ACS Applied Materials & Interfaces, 2023, 15, 40762-40771.	8.0	1
436	Photo-induced halide redistribution in 2D halide perovskite lateral heterostructures. Joule, 2023, 7, 2376-2385.	24.0	0
437	Origin of Broad Emission Induced by Rigid Aromatic Ditopic Cations in Low-Dimensional Metal Halide Perovskites. Journal of Physical Chemistry Letters, 2023, 14, 7860-7868.	4.6	5
438	Thickness control of organic semiconductor-incorporated perovskites. Nature Chemistry, 2023, 15, 1745-1753.	13.6	7
439	Bifunctional Molecule for Highly Efficient Green Perovskite Lightâ€Emitting Diodes. Advanced Optical Materials, 0, , .	7.3	0
440	2D and quasi-2D hybrid perovskites containing organic cations with an extended conjugated system: opportunities and challenges. Journal of Materials Chemistry C, 2023, 11, 12877-12893.	5.5	1
441	Pressure-dependent comparative study of the mechanical, electronic, and optical properties of CsPbX <sub>3</sub> (X = Cl, Br, I): a DFT study for optoelectronic applications. Materials Advances, 2023, 4, 4494-4508.	5.4	2
442	<i>In situ</i> SnSe deposition as passivation for scalable and stable quasi-2D lead–tin perovskite solar cells. Energy and Environmental Science, 2023, 16, 5315-5324.	30.8	3
443	Stable deep-blue FAPbBr <sub>3</sub> quantum dots facilitated by amorphous metal halide matrices. Chemical Communications, 2023, 59, 11137-11140.	4.1	1
444	The rise of quasi-2D Dion–Jacobson perovskites for photovoltaics. Nanoscale Horizons, 2023, 8, 1628-1651.	8.0	1
445	Green and Red Photoluminescent Manganese Bromides with Aminomethylpyridine Isomers. Inorganic Chemistry, 2023, 62, 12058-12066.	4.0	1
446	Two-dimensional hybrid perovskite crystals for highly sensitive and stable UV light detector. Optical Materials, 2023, 145, 114408.	3.6	1
447	Tailoring Interlayer Charge Transfer Dynamics in 2D Perovskites with Electroactive Spacer Molecules. Journal of the American Chemical Society, 2023, 145, 21330-21343.	13.7	8
448	Exciton–Phonon Coupling and Vibronic Emission Structure in 2D Perovskite Thin Films with Naphthylmethylamine Spacers. Journal of Physical Chemistry C, 2023, 127, 18431-18441.	3.1	1
449	Selenophene-Based 2D Ruddlesden-Popper Perovskite Solar Cells with an Efficiency Exceeding 19%. Journal of the American Chemical Society, 2023, 145, 21687-21695.	13.7	9
450	Lead-free perovskites and derivatives enable direct and scintillation-type X-ray detection. Materials Science and Engineering Reports, 2023, 156, 100756.	31.8	1
451	Revealing the Crystallization and Thermal-Induced Phase Evolution in Aromatic-Based Quasi-2D Perovskites Using a Robot-Based Platform. ACS Energy Letters, 2023, 8, 3595-3603.	17.4	3

#	Article	IF	CITATIONS
452	Trap or Triplet? Excited–State Interactions in 2D Perovskite Colloids with Chromophoric Cations. ACS Nano, 2023, 17, 19052-19062.	14.6	5
453	Excitons in metal halide perovskite nanoplatelets: an effective mass description of polaronic, dielectric and quantum confinement effects. Nanoscale Advances, 0, , .	4.6	0
454	Mechanism of the Anomalous Dependence between Spin–Orbit Coupling and Dimensionality in Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2023, 14, 8811-8819.	4.6	0
455	Built-in Electric Field in Quasi-2D CsPbI <sub>3</sub> Perovskites Using High-Polarized Zwitterionic Spacer for Enhanced Charge Separation/Transport. Journal of Physical Chemistry Letters, 2023, 14, 7331-7339.	4.6	1
456	Toward the Controlled Synthesis of Lead Halide Perovskite Nanocrystals. ACS Nano, 2023, 17, 17600-17609.	14.6	4
457	Exploring Aâ€Site Cation Variations in Dion–Jacobson Twoâ€Dimensional Halide Perovskites for Enhanced Solar Cell Applications: A Density Functional Theory Study. Advanced Energy and Sustainability Research, 0, , .	5.8	0
458	Boosting CO <sub>2</sub> Photoreduction via Regulating Charge Transfer Ability in a Oneâ€Đimensional Covalent Organic Framework. Angewandte Chemie - International Edition, 2023, 62, .	13.8	3
459	Dion–Jacobson to Alternating ationsâ€Interaction Reconstruction toward Narrow Bandgap 2D Aromatic Hybrid Perovskite. Small, 0, , .	10.0	Ο
460	Machine Learning Driven Prediction of Band Alignment Types in 2D Hybrid Perovskites. Journal of Materials Chemistry A, 0, , .	10.3	0
461	Electronic and optical properties of two-dimensional perovskite materials in DJ and RP phases: density functional theory approach. Optical and Quantum Electronics, 2023, 55, .	3.3	0
462	Tailoring Phase Distribution of Quasiâ€2D Perovskites via Taurineâ€Assistance Enables Efficient Blue Lightâ€Emitting Diodes. Small, 2024, 20, .	10.0	3
463	Effect of the hole transport layer on the performance of sky-blue Dion–Jacobson perovskite light-emitting diodes. Journal of Materials Chemistry C, 2023, 11, 14207-14216.	5.5	1
464	Quantum confinement effect on the electronic and optical properties of two-dimensional halide perovskites. Computational Materials Science, 2023, 230, 112524.	3.0	0
465	Boosting CO <sub>2</sub> Photoreduction via Regulating Charge Transfer Ability in a Oneâ€Dimensional Covalent Organic Framework. Angewandte Chemie, 2023, 135, .	2.0	0
466	A Fluorinated Phenethylammoniumâ€Based Spacer Cation Prompts the Spontaneous Formation of Gradient 2D/3D Perovskites for Efficient and Stable Solar Cells. Solar Rrl, 2023, 7, .	5.8	0
467	Controlled Photoluminescence Lifetimes and Quantum Efficiencies in Mn-Doped Two-Dimensional Perovskite via A-Site Cation Engineering. Journal of Physical Chemistry C, 0, , .	3.1	0
468	Measuring the Exciton Binding Energy: Learning from a Decade of Measurements on Halide Perovskites and Transition Metal Dichalcogenides. Advanced Optical Materials, 2024, 12, .	7.3	1
469	Synthesis of 2D perovskite crystals via progressive transformation of quantum well thickness. , 2024, 3, 265-275.		3

#	Article	IF	CITATIONS
470	Nucleation and Crystallization in 2D Ruddlesdenâ€Popper Perovskites using Formamidiniumâ€based Organic Semiconductor Spacers for Efficient Solar Cells. Angewandte Chemie, 2023, 135, .	2.0	0
471	Nucleation and Crystallization in 2D Ruddlesdenâ€Popper Perovskites using Formamidiniumâ€based Organic Semiconductor Spacers for Efficient Solar Cells. Angewandte Chemie - International Edition, 2023, 62, .	13.8	6
472	On the Origin of Energetic Disorder in Mixed Halides Lead Perovskites. Advanced Optical Materials, 0, ,	7.3	0
473	Methylammonium-free wide-bandgap metal halide perovskites for tandem photovoltaics. Nature Reviews Materials, 2023, 8, 822-838.	48.7	2
474	A Review of Topâ€Down Strategies for the Production of Quantumâ€Sized Materials. Small Science, 2023, 3, .	9.9	1
475	Dion–Jacobson Phase Perovskite Crystal Assembled by <i>Ï€</i> â€Conjugated Aromatic Spacer for Xâ€Ray Detectors with an Ultralow Detection Limit. Advanced Functional Materials, 2024, 34, .	14.9	1
476	Highâ€Quality Pureâ€Phase MAâ€Free Formamdinium Dionâ€Jacobson 2D Perovskites for Stable Unencapsulated Photovoltaics. Advanced Energy Materials, 2024, 14, .	19.5	0
477	Quasi-2D Dion-Jacobson phase perovskites as a promising material platform for stable and high-performance lasers. Science Advances, 2023, 9, .	10.3	1
478	Enhancing photostability of 2D Ruddlesden–Popper perovskite via molecular acceptor passivation of metallic lead defects. Applied Physics Reviews, 2023, 10, .	11.3	0
479	Tunable Interlayer Delocalization of Excitons in Layered Organic–Inorganic Halide Perovskites. Journal of Physical Chemistry Letters, 2023, 14, 10634-10641.	4.6	1
480	Large-n quasi-phase-pure two-dimensional halide perovskite: A toolbox from materials to devices. Science Bulletin, 2024, 69, 382-418.	9.0	0
481	Polaron Vibronic Progression Shapes the Optical Response of 2D Perovskites. Advanced Science, 2024, 11, .	11.2	1
482	High-Performance Lead-Free Layered-Perovskite Photodetectors and Bipolar Transistors by Solvent Engineering. ACS Photonics, 0, , .	6.6	1
483	Circularly Polarized Light Emission from Nonchiral Perovskites Incorporated into Nanoporous Cholesteric Polymer Templates. ACS Nano, 0, , .	14.6	0
484	Synthesis and Optical Properties of One Year Air-Stable Chiral Sb(III) Halide Semiconductors. Inorganic Chemistry, 2023, 62, 20142-20152.	4.0	0
485	Interlayer Charge Transport in 2D Lead Halide Perovskites from First Principles. Journal of Chemical Theory and Computation, 2023, 19, 9403-9415.	5.3	1
486	2D Hybrid Perovskites Employing an Organic Cation Paired with a Neutral Molecule. Journal of the American Chemical Society, 2023, 145, 27242-27247.	13.7	0
487	Crystal Growth Regulation of Ruddlesden–Popper Perovskites via Selfâ€Assembly of Semiconductor Spacers for Efficient Solar Cells. Angewandte Chemie, 0, , .	2.0	0

#	Article	IF	CITATIONS
488	Crystal Growth Regulation of Ruddlesden–Popper Perovskites via Selfâ€Assembly of Semiconductor Spacers for Efficient Solar Cells. Angewandte Chemie - International Edition, 2024, 63, .	13.8	1
489	The semiconductive antimony and bismuth halide organic-inorganic perovskite compounds with the reversible phase transition. Journal of Molecular Structure, 2024, 1300, 137304.	3.6	0
490	Impacts of Exciton Binding Energy and Dielectric Confinement of Layered Lead Halide Perovskites on Carrier Relaxation and Exciton Phonon Interactions. Journal of Physical Chemistry Letters, 2023, 14, 10900-10909.	4.6	0
491	Rationalizing Electron–Phonon Interactions and Hot Carriers Cooling in 2D to 3D Metal Halide Perovskites. Advanced Energy Materials, 0, , .	19.5	0
492	Recent advances in low-dimensional nanostructures for superior microwave attenuation: A review. Materials Today Communications, 2024, 38, 107862.	1.9	0
494	Quasi 3D electronic structures of Dion–Jacobson layered perovskites with exceptional short interlayer distances. Journal of Materials Chemistry C, O, , .	5.5	0
495	Scale-up Solutions of 2D Perovskite Photovoltaics: Insights of Multiscale Structures. ACS Energy Letters, 0, , 17-29.	17.4	1
496	Interfacial Rivet to Fill Structural Defects: A Spacer Engineering Gift for 3D Solar Cells. Advanced Materials, 0, , .	21.0	0
497	Broadband Tunability of Third Harmonic Upconversion in Pyridinium Lead Halides. ACS Photonics, 0, , .	6.6	0
498	Orbital Interactions in 2D Dion–Jacobson Perovskites Using Oligothiophene-Based Semiconductor Spacers Enable Efficient Solar Cells. Nano Letters, 0, , .	9.1	0
499	Optical bandgap anomaly with tuning dimensionality in germanium perovskites: Interplay between quantum confinement and lone pair expression. CheM, 2023, , .	11.7	0
500	Dielectric Engineering of 2D Organic–Inorganic Hybrid Perovskites. ACS Energy Letters, 2024, 9, 226-242.	17.4	0
501	The Role of the Organic Cation in Developing Efficient Green Perovskite LEDs Based on Quasiâ€⊋D Perovskite Heterostructures. Advanced Functional Materials, 0, , .	14.9	0
502	Dual-Hyperspectral Optical Pump–Probe Microscopy with Single-Nanosecond Time Resolution. Journal of the American Chemical Society, 2024, 146, 2187-2195.	13.7	1
503	Modulating the Dipole Moment of Secondary Ammonium Spacers for Efficient 2D Ruddlesdenâ€Popper Perovskite Solar Cells. Angewandte Chemie, 2024, 136, .	2.0	0
504	Modulating the Dipole Moment of Secondary Ammonium Spacers for Efficient 2D Ruddlesdenâ€Popper Perovskite Solar Cells. Angewandte Chemie - International Edition, 2024, 63, .	13.8	1
505	Family of Chiral Ferroelectric Compounds with Widely Tunable Band Gaps. Chemistry of Materials, 2024, 36, 1891-1898.	6.7	0
506	Optical Properties of Two-Dimensional/Three-Dimensional Composite Perovskite Films. Journal of Physical Chemistry C, 2024, 128, 1202-1206.	3.1	0

#	Article	IF	CITATIONS
507	Two-photon absorption flexible photodetector responsive to femtosecond laser. Optics Express, 2024, 32, 4334.	3.4	0
508	Carrier Transport in 2D Hybrid Organic-Inorganic Perovskites: The Role of Spacer Molecules. Journal of Physical Chemistry Letters, 2024, 15, 1254-1263.	4.6	1
509	Darkâ€Bright Exciton Splitting Dominates Lowâ€Temperature Diffusion in Halide Perovskite Nanocrystal Assemblies. Advanced Energy Materials, 2024, 14, .	19.5	0
510	DFT exploration of elastic, optoelectronic, and thermoelectric properties of stable and eco-friendly double perovskites Cs2YAuX6 (X=Cl, Br) for green energy applications. Journal of Physics and Chemistry of Solids, 2024, 188, 111936.	4.0	0
511	Dimension and Thickness Control Synthesis of Strongly Confined Cesium Lead Iodide Perovskites with Excellent Two-Photon Absorption Properties. , 2024, 2, 301-312.		0
512	Comparative Analysis of Different Ammonium-Based Cations in 2D DJ-Type Perovskite Single Crystals for High-Performance Planar Photodetectors. Journal of Physical Chemistry C, 2024, 128, 2928-2936.	3.1	0
513	Broad-Band Emission Switch in Room Temperature Stable Hybrid Perovskite Polymorphs. Crystal Growth and Design, 2024, 24, 1880-1887.	3.0	0
514	Unraveling Interface-Driven and Loss Mechanism-Centric Phenomena in 3D/2D Halide Perovskites: Prospects for Optoelectronic Applications. ACS Omega, 2024, 9, 10000-10016.	3.5	0
515	Organic–Inorganic Hybrid Glasses of Atomically Precise Nanoclusters. Journal of the American Chemical Society, 2024, 146, 7373-7385.	13.7	0
516	Modelling iodine diffusion in 2D-Perovskites as a function of the length of the organic spacer molecules. Solar Energy, 2024, 272, 112458.	6.1	0
517	Superior Phonon-Limited Exciton Mobility in Lead-Free Two-Dimensional Perovskites. Nano Letters, 2024, 24, 3638-3646.	9.1	0
518	Large exchange-driven intrinsic circular dichroism of a chiral 2D hybrid perovskite. Nature Communications, 2024, 15, .	12.8	0
519	Regulating The Electronic Configuration of Lowâ€Dimensional Hybrid Perovskites via Organic Cations for Selfâ€Powered Ultraviolet Photodetectors. Small Methods, 0, , .	8.6	0
520	Machine Learning Enabled Potential for (BA)2(MA)(nâ^1)Pbnl3n+1 2D Ruddlesden–Popper Perovskite Materials. Multiscale Science and Engineering, 0, , .	1.7	0
521	Centimeterâ€Size Single Crystal of a Polar Dion–Jacobson Double Perovskite with Large Mobilityâ€Lifetime Product toward Effective Xâ€Ray Detection. Advanced Optical Materials, 0, , .	7.3	0
522	A DFT study of structural, electronic, mechanical, optical, and hydrogen storage properties of quaternary hydride phase Li4BN3H10. Computational Condensed Matter, 2024, 39, e00902.	2.1	0
523	Narrow Bandgap Metal Halide Perovskites for All-Perovskite Tandem Photovoltaics. Chemical Reviews, 2024, 124, 4079-4123.	47.7	0
524	Elucidating the Non-Covalent Interactions that Trigger Interdigitation in Lead-Halide Layered Hybrid Perovskites. Inorganic Chemistry, 2024, 63, 5568-5579.	4.0	0

#	Article	IF	CITATIONS
525	Impact of large A-site cations on electron–vibrational interactions in 2D halide perovskites: <i>Ab initio</i> quantum dynamics. Journal of Chemical Physics, 2024, 160, .	3.0	0