Mercouri G Kanatzidis

List of Publications by Year
in descending order

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914 papers	120,883 citations	135 159 h-index	182 318 g-index
929 all docs	929 docs citations	929 times ranked	51684 citing authors

#	Article	IF	Citations
1	High-performance thermoelectrics and challenges for practical devices. Nature Materials, 2022, 21, 503-513.	13.3	248
2	Mo₃S₁₃^{2â^'} Intercalated Layered Double Hydroxide: Highly Selective Removal of Heavy Metals and Simultaneous Reduction of Ag⁺ Ions to Metallic Ag⁰ Ribbons. Angewandte Chemie - International Edition, 2022, 61, .	7.2	23
3	Giant Nonâ€Resonant Infrared Second Order Nonlinearity in Î³â€‰â€NaAsSe₂. Advanced Optical Materials, 2022, 10, .	3.6	16
4	Light-activated interlayer contraction in two-dimensional perovskites for high-efficiency solar cells. Nature Nanotechnology, 2022, 17, 45-52.	15.6	52
5	MoO_xS_y/Ni₃S₂ Microspheres on Ni Foam as Highly Efficient, Durable Electrocatalysts for Hydrogen Evolution Reaction. Chemistry of Materials, 2022, 34, 798-808.	3.2	26
6	Direct visualization of polaron formation in the thermoelectric SnSe. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	23
7	Photoluminescence spectroscopy of excitonic emission in CsPbCl3 perovskite single crystals. Journal of Luminescence, 2022, 243, 118661.	1.5	11
8	Achieving Enhanced Thermoelectric Performance in Multiphase Materials. Accounts of Materials Research, 2022, 3, 237-246.	5.9	23
9	Expanding the Cage of 2D Bromide Perovskites by Large A-Site Cations. Chemistry of Materials, 2022, 34, 1132-1142.	3.2	22
10	Film formation mechanisms in mixed-dimensional 2D/3D halide perovskite films revealed by in situ grazing-incidence wide-angle X-ray scattering. CheM, 2022, 8, 1067-1082.	5.8	16
11	Thermoelectric Performance of the 2D Bi₂Si₂Te₆ Semiconductor. Journal of the American Chemical Society, 2022, 144, 1445-1454.	6.6	37
12	Extraordinary role of Zn in enhancing thermoelectric performance of Ga-doped n-type PbTe. Energy and Environmental Science, 2022, 15, 368-375.	15.6	107
13	Weak-Bonding Elements Lead to High Thermoelectric Performance in BaSnS₃ and SrSnS₃: A First-Principles Study. Chemistry of Materials, 2022, 34, 1289-1301.	3.2	19
14	Low Thermal Conductivity in Heteroanionic Materials with Layers of Homoleptic Polyhedra. Journal of the American Chemical Society, 2022, 144, 2569-2579.	6.6	13
15	Centimeter-Sized 2D Perovskitoid Single Crystals for Efficient X-ray Photoresponsivity. Chemistry of Materials, 2022, 34, 1699-1709.	3.2	24
16	Study of Annihilation Photon Pair Coincidence Time Resolution Using Prompt Photon Emissions in New Perovskite Bulk Crystals. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 804-810.	2.7	2
17	Tolerance Factor for Stabilizing 3D Hybrid Halide Perovskitoids Using Linear Diammonium Cations. Journal of the American Chemical Society, 2022, 144, 3902-3912.	6.6	36
18	Understanding Instability in Formamidinium Lead Halide Perovskites: Kinetics of Transformative Reactions at Grain and Subgrain Boundaries. ACS Energy Letters, 2022, 7, 1534-1543.	8.8	45

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19	Sensitivity and Detection Limit of Spectroscopicâ€Grade Perovskite CsPbBr₃ Crystal for Hard Xâ€Ray Detection. Advanced Functional Materials, 2022, 32, .	7.8	32
20	Ligand Control of Structural Diversity in Luminescent Hybrid Copper(I) Iodides. Chemistry of Materials, 2022, 34, 3206-3216.	3.2	23
21	Polariton Dynamics in Two-Dimensional Ruddlesdenâ€“Popper Perovskites Strongly Coupled with Plasmonic Lattices. ACS Nano, 2022, 16, 3917-3925.	7.3	17
22	Homologous Alkali Metal Copper Rare-Earth Chalcogenides A₂Cu_{2n}Ln₄Q_{7+n} (n = 1, 2, 3). Chemistry of Materials, 2022, 34, 3409-3422.	3.2	6
23	Hybrid Layered Double Perovskite Halides of Transition Metals. Journal of the American Chemical Society, 2022, 144, 6661-6666.	6.6	23
24	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.	6.6	13
25	Accelerated Discovery and Design of Ultralow Lattice Thermal Conductivity Materials Using Chemical Bonding Principles. Advanced Functional Materials, 2022, 32, .	7.8	34
26	Detecting ionizing radiation using halide perovskite semiconductors processed through solution and alternative methods. Nature Photonics, 2022, 16, 14-26.	15.6	122
27	Hidden Local Symmetry Breaking in Silver Diamondoid Compounds is Root Cause of Ultralow Thermal Conductivity. Advanced Materials, 2022, 34, e2202255.	11.1	20
28	Valence Disproportionation of GeS in the PbS Matrix Forms Pb₅Ge₅S₁₂ Inclusions with Conduction Band Alignment Leading to High n-Type Thermoelectric Performance. Journal of the American Chemical Society, 2022, 144, 7402-7413.	6.6	24
29	Entropy Stabilization Effects and Ion Migration in 3D â€œHollowâ€•Halide Perovskites. Journal of the American Chemical Society, 2022, 144, 8223-8230.	6.6	18
30	High Thermoelectric Performance in Chalcopyrite Cu_{1â€“x}Ag_xGaTe₂â€“ZnTe: Nontrivial Band Structure and Dynamic Doping Effect. Journal of the American Chemical Society, 2022, 144, 9113-9125.	6.6	29
31	2D Homologous Series SrFM_nBiS_{n+2} (M = Pb,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2 Sr₂F₂Bi_{2/3}S₂. Inorganic Chemistry, 2022, 61, 8233-8240.	1.9	2
32	Ba₂MAsQ₅ (Q = S and Se) Family of Polar Structures with Large Second Harmonic Generation and Phase Matchability. Chemistry of Materials, 2022, 34, 5283-5293.	3.2	7
33	Field-induced quantum critical point in the itinerant antiferromagnet Ti3Cu4. Communications Physics, 2022, 5, .	2.0	1
34	2,3-Diphenylthieno[3,4-b]pyrazines as Hole-Transporting Materials for Stable, High-Performance Perovskite Solar Cells. ACS Energy Letters, 2022, 7, 2118-2127.	8.8	27
35	Mixed Anion Semiconductor In₈S_{2.82}Te_{6.18}(Te₂)₃. Inorganic Chemistry, 2022, 61, 9040-9046.	1.9	1
36	Removal of CrO₄^{2â€“}, a Nonradioactive Surrogate of ⁹⁹TcO₄^{â€“}, Using LDHâ€“Mo₃S₁₃ Nanosheets. Environmental Science & Technology, 2022, 56, 8590-8598.	4.6	7

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37	Enhancing and Extinguishing the Different Emission Features of 2D (EA_{1â˜}_xFA_x)₄Pb₃Br₁₀ Perovskite Films. Advanced Optical Materials, 2022, 10, .	8.6	2
38	Ordered Mixed-Spacer 2D Bromide Perovskites and the Dual Role of 1,2,4-Triazolium Cation. Chemistry of Materials, 2022, 34, 6541-6552.	3.2	5
39	Defect levels in CsPbCl3 single crystals determined by thermally stimulated current spectroscopy. Journal of Applied Physics, 2022, 132, .	1.1	6
40	Cubic Stuffed-Diamond Semiconductors LiCu₃TiQ₄ (Q = S, Se, and Te). Journal of the American Chemical Society, 2022, 144, 12789-12799.	6.6	5
41	Regulating off-centering distortion maximizes photoluminescence in halide perovskites. National Science Review, 2021, 8, nwaa288.	4.6	70
42	Mechanistic insight of KBiQ₂ (Q = S, Se) using panoramic synthesis towards synthesis-by-design. Chemical Science, 2021, 12, 1378-1391.	3.7	11
43	In Quest of Environmentally Stable Perovskite Solar Cells: A Perspective. Helvetica Chimica Acta, 2021, 104, .	1.0	15
44	CsPbBr3 perovskite detectors with 1.4% energy resolution for high-energy Î³-rays. Nature Photonics, 2021, 15, 36-42.	15.6	210
45	Strong Valence Band Convergence to Enhance Thermoelectric Performance in PbSe with Two Chemically Independent Controls. Angewandte Chemie, 2021, 133, 272-277.	1.6	7
46	Strong Valence Band Convergence to Enhance Thermoelectric Performance in PbSe with Two Chemically Independent Controls. Angewandte Chemie - International Edition, 2021, 60, 268-273.	7.2	28
47	Enhanced Photocurrent of All-Inorganic Two-Dimensional Perovskite Cs₂PbI₂Cl₂ via Pressure-Regulated Excitonic Features. Journal of the American Chemical Society, 2021, 143, 2545-2551.	6.6	79
48	Role of the A-Site Cation in Low-Temperature Optical Behaviors of APbBr₃ (A = Cs,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	6.6	13
49	The 2D Halide Perovskite Rulebook: How the Spacer Influences Everything from the Structure to Optoelectronic Device Efficiency. Chemical Reviews, 2021, 121, 2230-2291.	23.0	506
50	Scalable nanomanufacturing of chalcogenide inks: a case study on thermoelectric Vâ€“VI nanoplates. Journal of Materials Chemistry A, 2021, 9, 22555-22562.	5.2	10
51	Demonstration of Energy-Resolved Î³-Ray Detection at Room Temperature by the CsPbCl₃ Perovskite Semiconductor. Journal of the American Chemical Society, 2021, 143, 2068-2077.	6.6	62
52	Metal cation s lone-pairs increase octahedral tilting instabilities in halide perovskites. Materials Advances, 2021, 2, 4610-4616.	2.6	20
53	Anisotropic Transient Disordering of Colloidal, Two-Dimensional CdSe Nanoplatelets upon Optical Excitation. Nano Letters, 2021, 21, 1288-1294.	4.5	8
54	Materials development and module fabrication in highly efficient lead tellurides. , 2021, , 247-267.		0

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55	Highly efficient photoelectric effect in halide perovskites for regenerative electron sources. Nature Communications, 2021, 12, 673.	5.8	13
56	Inorganic Halide Perovskitoid TlPbI₃ for Ionizing Radiation Detection. Advanced Functional Materials, 2021, 31, 2006635.	7.8	16
57	Tuning Ionic and Electronic Conductivities in the â€œHollowâ€•Perovskite {en}MAPbI₃. Chemistry of Materials, 2021, 33, 719-726.	3.2	24
58	Tripleâ€Cation and Mixedâ€Halide Perovskite Single Crystal for Highâ€Performance Xâ€ray Imaging. Advanced Materials, 2021, 33, e2006010.	11.1	163
59	Sn_{4â^Î´}B₁₂Se₁₂[Q_x], Q = Se, Te, a B₁₂ Cluster Tunnel Framework Hosting Neutral Chalcogen Chains. Chemistry of Materials, 2021, 33, 1723-1730.	3.2	6
60	Dissociation of GaSb in n-Type PbTe: off-Centered Gallium Atom and Weak Electronâ€“Phonon Coupling Provide High Thermoelectric Performance. Chemistry of Materials, 2021, 33, 1842-1851.	3.2	23
61	Inch-sized high-quality perovskite single crystals by suppressing phase segregation for light-powered integrated circuits. Science Advances, 2021, 7, .	4.7	81
62	P₂S₅ Reactive Flux Method for the Rapid Synthesis of Mono- and Bimetallic 2D Thiophosphates M_{2â€“x}Mâ€²_xP₂S₆. Inorganic Chemistry, 2021, 60, 3502-3513.	1.9	18
63	Insight on the Stability of Thick Layers in 2D Ruddlesdenâ€“Popper and Dionâ€“Jacobson Lead Iodide Perovskites. Journal of the American Chemical Society, 2021, 143, 2523-2536.	6.6	79
64	Pressure-induced ferroelectric-like transition creates a polar metal in defect antiperovskites Hg3Te2X2 (Xâ€‰=â€‰Cl, Br). Nature Communications, 2021, 12, 1509.	5.8	14
65	Lithium Thiostannate Spinels: Air-Stable Cubic Semiconductors. Chemistry of Materials, 2021, 33, 2080-2089.	3.2	6
66	Quasi-Two-Dimensional Heterostructures (KM_{1Ââ€“Âx}Te)(LaTe₃) (M = Mn and Zn) with Charge Density Waves. Chemistry of Materials, 2021, 33, 2155-2164.	3.2	2
67	Signatures of Coherent Phonon Transport in Ultralow Thermal Conductivity Two-Dimensional Ruddlesdenâ€“Popper Phase Perovskites. ACS Nano, 2021, 15, 4165-4172.	7.3	21
68	Distance Dependence of FÃ¶rster Resonance Energy Transfer Rates in 2D Perovskite Quantum Wells via Control of Organic Spacer Length. Journal of the American Chemical Society, 2021, 143, 4244-4252.	6.6	54
69	Implications of doping on microstructure, processing, and thermoelectric performance: The case of PbSe. Journal of Materials Research, 2021, 36, 1272-1284.	1.2	8
70	Efficient Removal of Cs⁺ and Sr²⁺ Ions by Granulous (Me₂NH₂)_{4/3}(Me₃NH)_{2/3}Sn₃S₇Â·1.25H<su Composite. ACS Applied Materials & Interfaces, 2021, 13, 13434-13442.	9.7	41
71	Ultralow Thermal Conductivity in Diamondoid Structures and High Thermoelectric Performance in (Cu_{1â€“x}Ag_x)(In_{1â€“y}Ga_y)Te₂. Journal of the American Chemical Society, 2021, 143, 5978-5989.	6.6	49
72	Amorphous to Crystal Phase Change Memory Effect with Two-Fold Bandgap Difference in Semiconducting K₂Bi₈Se₁₃. Journal of the American Chemical Society, 2021, 143, 6221-6228.	6.6	9

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73	Tunable Broad Light Emission from 3D â€œHollowâ€•Bromide Perovskites through Defect Engineering. Journal of the American Chemical Society, 2021, 143, 7069-7080.	6.6	37
74	Local Distortions and Metalâ€“Semiconductorâ€“Metal Transition in Quasi-One-Dimensional Nanowire Compounds AV₃Q₃O_{Î´} (A = K, Rb, Cs and Q = Se, Te). Chemistry of Materials, 2021, 33, 2611-2623.	3.2	6
75	Polaron Plasma in Equilibrium with Bright Excitons in 2D and 3D Hybrid Perovskites. Advanced Optical Materials, 2021, 9, 2100295.	3.6	14
76	A Noncentrosymmetric Polymorph of LuRuGe. Inorganic Chemistry, 2021, 60, 7827-7833.	1.9	2
77	Charge-carrier-mediated lattice softening contributes to high zT in thermoelectric semiconductors. Joule, 2021, 5, 1168-1182.	11.7	37
78	Shedding Light on the Stability and Structureâ€“Property Relationships of Two-Dimensional Hybrid Lead Bromide Perovskites. Chemistry of Materials, 2021, 33, 5085-5107.	3.2	29
79	Memory Seeds Enable High Structural Phase Purity in 2D Perovskite Films for Highâ€Efficiency Devices. Advanced Materials, 2021, 33, e2007176.	11.1	50
80	In-Plane Mechanical Properties of Two-Dimensional Hybrid Organicâ€“Inorganic Perovskite Nanosheets: Structureâ€“Property Relationships. ACS Applied Materials & Interfaces, 2021, 13, 31642-31649.	4.0	15
81	Accelerated discovery of a large family of quaternary chalcogenides with very low lattice thermal conductivity. Npj Computational Materials, 2021, 7, .	3.5	32
82	Employing the Dynamics of the Electrochemical Interface in Aqueous Zincâ€Ion Battery Cathodes. Advanced Functional Materials, 2021, 31, 2102135.	7.8	34
83	Structural and chemical analysis of mixed cation antiferromagnetic layered metal chalcophosphate FeCoP2S6. Microscopy and Microanalysis, 2021, 27, 140-143.	0.2	1
84	Selective Capture Mechanism of Radioactive Thorium from Highly Acidic Solution by a Layered Metal Sulfide. ACS Applied Materials & Interfaces, 2021, 13, 37308-37315.	4.0	11
85	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.	3.2	27
86	Photoluminescent Re₆Q₈I₂ (Q = S, Se) Semiconducting Cluster Compounds. Chemistry of Materials, 2021, 33, 5780-5789.	3.2	5
87	A two-dimensional type I superionic conductor. Nature Materials, 2021, 20, 1683-1688.	13.3	15
88	In Situ Mechanistic Studies of Two Divergent Synthesis Routes Forming the Heteroanionic BiOCuSe. Journal of the American Chemical Society, 2021, 143, 12090-12099.	6.6	17
89	m-Phenylenediammonium as a New Spacer for Dionâ€“Jacobson Two-Dimensional Perovskites. Journal of the American Chemical Society, 2021, 143, 12063-12073.	6.6	71
90	Hidden Complexity in the Chemistry of Ammonolysis-Derived â€œÎ³-Mo₂Nâ€: An Overlooked Oxynitride Hydride. Chemistry of Materials, 2021, 33, 6671-6684.	3.2	8

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91	New Compounds and Phase Selection of Nickel Sulfides via Oxidation State Control in Molten Hydroxides. Journal of the American Chemical Society, 2021, 143, 13646-13654.	6.6	10
92	Polycrystalline SnSe with a thermoelectric figure of merit greater than the single crystal. Nature Materials, 2021, 20, 1378-1384.	13.3	340
93	Vast Structural and Polymorphic Varieties of Semiconductors AMMâ€²Q4 (A = K, Rb, Cs, Tl; M = Ga, In; Mâ€² =) Tj ETQq1 1 0.784314 rg	3.2	6
94	Cubic AgMnSbTe₃ Semiconductor with a High Thermoelectric Performance. Journal of the American Chemical Society, 2021, 143, 13990-13998.	6.6	56
95	Mechanics-coupled stability of metal-halide perovskites. Matter, 2021, 4, 2765-2809.	5.0	43
96	Superconductivity in Y₄RuGe₈ with a Vacancy-Ordered CeNiSi₂-Type Superstructure. Chemistry of Materials, 2021, 33, 7839-7847.	3.2	3
97	Excitons in CsPbBr₃ Halide Perovskite. Journal of Physical Chemistry Letters, 2021, 12, 9301-9307.	2.1	8
98	Ultralow Thermal Conductivity, Multiband Electronic Structure and High Thermoelectric Figure of Merit in TlCuSe. Advanced Materials, 2021, 33, e2104908.	11.1	29
99	On the Origin of Room-Temperature Amplified Spontaneous Emission in CsPbBr₃ Single Crystals. Chemistry of Materials, 2021, 33, 7185-7193.	3.2	9
100	Photothermal behaviour of titanium nitride nanoparticles evaluated by transient X-ray diffraction. Nanoscale, 2021, 13, 2658-2664.	2.8	15
101	Defect engineering in thermoelectric materials: what have we learned?. Chemical Society Reviews, 2021, 50, 9022-9054.	18.7	201
102	Nonequilibrium dynamics of spontaneous symmetry breaking into a hidden state of charge-density wave. Nature Communications, 2021, 12, 566.	5.8	29
103	Nanotechnology for catalysis and solar energy conversion. Nanotechnology, 2021, 32, 042003.	1.3	44
104	Panoramic (in beam) studies of materials synthesis. , 2021, , .		0
105	High-phase purity two-dimensional perovskites with 17.3% efficiency enabled by interface engineering of hole transport layer. Cell Reports Physical Science, 2021, 2, 100601.	2.8	17
106	Broad Photoluminescence and Second-Harmonic Generation in the Noncentrosymmetric Organicâ€“Inorganic Hybrid Halide (C₆H₅(CH₂)₄NH₃)₄MX₇Â·H₂O (M = Bi, In, X = Br or I). Chemistry of Materials, 2021, 33, 8106-8111.	3.2	36
107	Controllable Nonclassical Conductance Switching in Nanoscale Phaseâ€Separated (PbI₂)_{1â‹}_x(BiI₃)_x Layered Crystals. Advanced Materials, 2021, 33, e2103098.	11.1	1
108	High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu₂SnSe₃. Advanced Energy Materials, 2021, 11, 2100661.	10.2	39

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109	Mixed Metal Thiophosphate Fe_{2â€“x}Co_xP₂S₆: Role of Structural Evolution and Anisotropy. Inorganic Chemistry, 2021, 60, 17268-17275.	1.9	8
110	Structure Tuning, Strong Second Harmonic Generation Response, and High Optical Stability of the Polar Semiconductors Na_{1â€“x}K_xAsQ₂. Journal of the American Chemical Society, 2021, 143, 18204-18215.	6.6	24
111	Extended Kohlerâ€™s Rule of Magnetoresistance. Physical Review X, 2021, 11, .	2.8	16
112	Optical phonon dominated heat transport: A first-principles thermal conductivity study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaSnS</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2021, 104, .	1.1	23
113	Interstitial Nature of Mn²⁺ Doping in 2D Perovskites. ACS Nano, 2021, 15, 20550-20561.	7.3	19
114	Discordant nature of Cd in PbSe: off-centering and coreâ€“shell nanoscale CdSe precipitates lead to high thermoelectric performance. Energy and Environmental Science, 2020, 13, 200-211.	15.6	57
115	Ir₆In₃₂S₂₁, a polar, metal-rich semiconducting subchalcogenide. Chemical Science, 2020, 11, 870-878.	3.7	7
116	Discordant nature of Cd in GeTe enhances phonon scattering and improves band convergence for high thermoelectric performance. Journal of Materials Chemistry A, 2020, 8, 1193-1204.	5.2	83
117	High-sensitivity X-ray detectors based on solution-grown caesium lead bromide single crystals. Journal of Materials Chemistry C, 2020, 8, 1248-1256.	2.7	108
118	Polypyrroleâ€“Mo₃S₁₃: An Efficient Sorbent for the Capture of Hg²⁺ and Highly Selective Extraction of Ag⁺ over Cu²⁺. Journal of the American Chemical Society, 2020, 142, 1574-1583.	6.6	55
119	High-Performance Thermoelectrics from Cellular Nanostructured Sb2Si2Te6. Joule, 2020, 4, 159-175.	11.7	103
120	Expression of interfacial Seebeck coefficient through grain boundary engineering with multi-layer graphene nanoplatelets. Energy and Environmental Science, 2020, 13, 4114-4121.	15.6	78
121	Long periodic ripple in a 2D hybrid halide perovskite structure using branched organic spacers. Chemical Science, 2020, 11, 12139-12148.	3.7	22
122	Mixed-Valent Copper Chalcogenides: Tuning Structures and Electronic Properties Using Multiple Anions. Chemistry of Materials, 2020, 32, 10146-10154.	3.2	9
123	Static Rashba Effect by Surface Reconstruction and Photon Recycling in the Dynamic Indirect Gap of APbBr₃ (A = Cs, CH₃NH₃) Single Crystals. Journal of the American Chemical Society, 2020, 142, 21059-21067.	6.6	33
124	Semiconductor physics of organicâ€“inorganic 2D halide perovskites. Nature Nanotechnology, 2020, 15, 969-985.	15.6	268
125	Na Doping in PbTe: Solubility, Band Convergence, Phase Boundary Mapping, and Thermoelectric Properties. Journal of the American Chemical Society, 2020, 142, 15464-15475.	6.6	101
126	Novel Core-shell Nanoscale Precipitates in High Performance PbSe-CdSe Thermoelectric Materials. Microscopy and Microanalysis, 2020, 26, 34-36.	0.2	1

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127	Narrow-Bandgap Mixed Lead/Tin-Based 2D Dionâ€“Jacobson Perovskites Boost the Performance of Solar Cells. Journal of the American Chemical Society, 2020, 142, 15049-15057.	6.6	103
128	High Thermoelectric Performance in the New Cubic Semiconductor AgSnSbSe₃ by High-Entropy Engineering. Journal of the American Chemical Society, 2020, 142, 15187-15198.	6.6	108
129	Role of Advanced Electron Microscopy in Unraveling Complex Microstructure in Nanostructured Thermoelectric Materials. Microscopy and Microanalysis, 2020, 26, 266-268.	0.2	0
130	Incorporated Guanidinium Expands the CH₃NH₃PbI₃ Lattice and Enhances Photovoltaic Performance. ACS Applied Materials & Interfaces, 2020, 12, 43885-43891.	4.0	31
131	Blocking Ion Migration Stabilizes the High Thermoelectric Performance in Cu₂Se Composites. Advanced Materials, 2020, 32, e2003730.	11.1	99
132	Edge States Drive Exciton Dissociation in Ruddlesdenâ€“Popper Lead Halide Perovskite Thin Films. , 2020, 2, 1360-1367.		20
133	Layered and Cubic Semiconductors AGaMâ€²Q₄ (A⁺ =) Tj ETQq1 1 0.784314 r High Third-Harmonic Generation. Journal of the American Chemical Society, 2020, 142, 17730-17742.	6.6	21
134	Ultralow thermal conductivity in diamondoid lattices: high thermoelectric performance in chalcopyrite Cu_{0.8+y}Ag_{0.2}In_{1â^'y}Te₂. Energy and Environmental Science, 2020, 13, 3693-3705.	15.6	52
135	Magnetizing lead-free halide double perovskites. Science Advances, 2020, 6, .	4.7	56
136	Alternative Organic Spacers for More Efficient Perovskite Solar Cells Containing Ruddlesdenâ€“Popper Phases. Journal of the American Chemical Society, 2020, 142, 19705-19714.	6.6	83
137	Nucleation-controlled growth of superior lead-free perovskite Cs3Bi2I9 single-crystals for high-performance X-ray detection. Nature Communications, 2020, 11, 2304.	5.8	286
138	Negative Pressure Engineering with Large Cage Cations in 2D Halide Perovskites Causes Lattice Softening. Journal of the American Chemical Society, 2020, 142, 11486-11496.	6.6	84
139	Inch-Size 0D-Structured Lead-Free Perovskite Single Crystals for Highly Sensitive Stable X-Ray Imaging. Matter, 2020, 3, 180-196.	5.0	202
140	The underappreciated lone pair in halide perovskites underpins their unusual properties. MRS Bulletin, 2020, 45, 467-477.	1.7	93
141	Three-Dimensional Lead Iodide Perovskitoid Hybrids with High X-ray Photoresponse. Journal of the American Chemical Society, 2020, 142, 6625-6637.	6.6	82
142	The Subchalcogenides Ir₂In₈Q (Q = S, Se, Te): Dirac Semimetal Candidates with Re-entrant Structural Modulation. Journal of the American Chemical Society, 2020, 142, 6312-6323.	6.6	11
143	Conventional Solvent Oxidizes Sn(II) in Perovskite Inks. ACS Energy Letters, 2020, 5, 1153-1155.	8.8	127
144	Ultralow Thermal Conductivity and Thermoelectric Properties of Rb2Bi8Se13. Chemistry of Materials, 2020, 32, 3561-3569.	3.2	23

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145	Halogenâ€“NH₂⁺ Interaction, Temperature-Induced Phase Transition, and Ordering in (NH₂CHNH₂)PbX₃ (X = Cl, Br, I) Hybrid Perovskites. Journal of Physical Chemistry C, 2020, 124, 8479-8487.	1.5	32
146	Bismuthâ€”The Magic Element. Inorganic Chemistry, 2020, 59, 3341-3343.	1.9	20
147	Highly tunable properties in pressure-treated two-dimensional Dionâ€“Jacobson perovskites. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16121-16126.	3.3	35
148	In Situ Grazingâ€Incidence Wideâ€Angle Scattering Reveals Mechanisms for Phase Distribution and Disorientation in 2D Halide Perovskite Films. Advanced Materials, 2020, 32, e2002812.	11.1	86
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