Christos D Malliakas

List of Publications by Year
in descending order

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151 papers	13,713 citations	57631 44 h-index	20900 115 g-index
154 all docs	154 docs citations	154 times ranked	17918 citing authors

#	Article	IF	Citations
1	Semiconducting Tin and Lead Iodide Perovskites with Organic Cations: Phase Transitions, High Mobilities, and Near-Infrared Photoluminescent Properties. Inorganic Chemistry, 2013, 52, 9019-9038.	1.9	4,516
2	Crystal Growth of the Perovskite Semiconductor CsPbBr₃: A New Material for High-Energy Radiation Detection. Crystal Growth and Design, 2013, 13, 2722-2727.	1.4	1,234
3	Design of active and stable Coâ€“Moâ€“Sx chalcogels as pH-universal catalysts for the hydrogen evolution reaction. Nature Materials, 2016, 15, 197-203.	13.3	825
4	Air-Stable Molecular Semiconducting Iodosalts for Solar Cell Applications: Cs₂SnI₆ as a Hole Conductor. Journal of the American Chemical Society, 2014, 136, 15379-15385.	6.6	560
5	Entropically Stabilized Local Dipole Formation in Lead Chalcogenides. Science, 2010, 330, 1660-1663.	6.0	308
6	Bottom-up construction of a superstructure in a porous uranium-organic crystal. Science, 2017, 356, 624-627.	6.0	286
7	Remnant PbI2, an unforeseen necessity in high-efficiency hybrid perovskite-based solar cells?. APL Materials, 2014, 2, .	2.2	264
8	Selective Removal of Cs⁺, Sr²⁺, and Ni²⁺ by K_{2x}Mg_xSn_{3â€“x}S₆ (x = 0.5â€“1) (KMS-2) Relevant to Nuclear Waste Remediation. Chemistry of Materials, 2013, 25, 2116-2127.	3.2	248
9	Role of Organic Counterion in Lead- and Tin-Based Two-Dimensional Semiconducting Iodide Perovskites and Application in Planar Solar Cells. Chemistry of Materials, 2016, 28, 7781-7792.	3.2	228
10	Structureâ€“Band Gap Relationships in Hexagonal Polytypes and Low-Dimensional Structures of Hybrid Tin Iodide Perovskites. Inorganic Chemistry, 2017, 56, 56-73.	1.9	220
11	Soluble Semiconductors AAsSe₂ (A = Li, Na) with a Direct-Band-Gap and Strong Second Harmonic Generation: A Combined Experimental and Theoretical Study. Journal of the American Chemical Society, 2010, 132, 3484-3495.	6.6	218
12	Conjugated Organic Cations Enable Efficient Self-Healing FASnI3 Solar Cells. Joule, 2019, 3, 3072-3087.	11.7	190
13	K_{2x}Sn_{4â^'x}S_{8â^'x} (x = 0.65â€“1): a new metal sulfide for rapid and selective removal of Cs⁺, Sr²⁺and UO₂²⁺ions. Chemical Science, 2016, 7, 1121-1132.	3.7	188
14	Chalcogenide Aerogels as Sorbents for Radioactive Iodine. Chemistry of Materials, 2015, 27, 2619-2626.	3.2	186
15	Dimensional Reduction: A Design Tool for New Radiation Detection Materials. Advanced Materials, 2011, 23, 4163-4167.	11.1	185
16	Design and Synthesis of a Waterâ€Stable Anionic Uraniumâ€Based Metalâ€“Organic Framework (MOF) with Ultra Large Pores. Angewandte Chemie - International Edition, 2016, 55, 10358-10362.	7.2	175
17	A Flexible Metalâ€“Organic Framework with 4-Connected Zr₆ Nodes. Journal of the American Chemical Society, 2018, 140, 11179-11183.	6.6	158
18	All in one porous material: exceptional sorption and selective sensing of hexavalent chromium by using a Zr⁴⁺ MOF. Journal of Materials Chemistry A, 2017, 5, 14707-14719.	5.2	150

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19	Concerted Rattling in CsAg₅Te₃ Leading to Ultralow Thermal Conductivity and High Thermoelectric Performance. Angewandte Chemie - International Edition, 2016, 55, 11431-11436.	7.2	144
20	Ion-Exchangeable Molybdenum Sulfide Porous Chalcogel: Gas Adsorption and Capture of Iodine and Mercury. Journal of the American Chemical Society, 2015, 137, 13943-13948.	6.6	141
21	Thallium Chalcohalides for X-ray and Î³-ray Detection. Journal of the American Chemical Society, 2011, 133, 10030-10033.	6.6	105
22	Square Nets of Tellurium:Â Rare-Earth Dependent Variation in the Charge-Density Wave of RETe3(RE =) Tj ETQq0 0 0 rgBT /Overlock 10 T	6.6	99
23	Exploration of metastability and hidden phases in correlated electron crystals visualized by femtosecond optical doping and electron crystallography. Science Advances, 2015, 1, e1400173.	4.7	95
24	Thallium Chalcogenide-Based Wide-Band-Gap Semiconductors: TlGaSe₂ for Radiation Detectors. Chemistry of Materials, 2011, 23, 3120-3128.	3.2	87
25	Singlet Fission in 9,10-Bis(phenylethynyl)anthracene Thin Films. Journal of the American Chemical Society, 2018, 140, 15140-15144.	6.6	84
26	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
27	Divergence in the Behavior of the Charge Density Wave inRETe3(RE= Rare-Earth Element) with Temperature andREElement. Journal of the American Chemical Society, 2006, 128, 12612-12613.	6.6	73
28	Alkaline Earth Metal Ion/Dihydroxyâ€“Terephthalate MOFs: Structural Diversity and Unusual Luminescent Properties. Inorganic Chemistry, 2015, 54, 5813-5826.	1.9	71
29	Anisotropic Redox Conductivity within a Metalâ€“Organic Framework Material. Journal of the American Chemical Society, 2019, 141, 17696-17702.	6.6	71
30	Nbâ€“Nb Interactions Define the Charge Density Wave Structure of 2H-NbSe₂. Journal of the American Chemical Society, 2013, 135, 1719-1722.	6.6	66
31	Direct Extraction of Ag⁺ and Hg²⁺ from Cyanide Complexes and Mode of Binding by the Layered K₂MgSn₂S₆ (KMS-2). Chemistry of Materials, 2015, 27, 1925-1928.	3.2	66
32	Amphiphilic Porphyrin Nanocrystals: Morphology Tuning and Hierarchical Assembly. Advanced Materials, 2008, 20, 3543-3549.	11.1	59
33	CsHgInS₃: a New Quaternary Semiconductor for Î³-ray Detection. Chemistry of Materials, 2012, 24, 4434-4441.	3.2	56
34	Lattice dynamics reveals a local symmetry breaking in the emergent dipole phase of PbTe. Physical Review B, 2012, 86, .	1.1	55
35	Photoconductivity in the Chalcohalide Semiconductor, SbSeI: a New Candidate for Hard Radiation Detection. Inorganic Chemistry, 2013, 52, 7045-7050.	1.9	55
36	Superprotonic Phase Change to a Robust Phosphonate Metalâ€“Organic Framework. Chemistry of Materials, 2018, 30, 314-318.	3.2	55

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37	Exceptional TcO₄^{â^'} sorption capacity and highly efficient ReO₄^{â^'} luminescence sensing by Zr⁴⁺ MOFs. Journal of Materials Chemistry A, 2018, 6, 20813-20821.	5.2	54
38	Inorganic Single Wall Nanotubes of SbPS4-xSex(0 â‰¤xâ‰¤ 3) with Tunable Band Gap. Journal of the American Chemical Society, 2006, 128, 6538-6539.	6.6	51
39	Copolymerization of terephthalaldehyde with pyrrole, indole and carbazole gives microporous POFs functionalized with unpaired electrons. Journal of Materials Chemistry A, 2013, 1, 10465.	5.2	50
40	Anomalous Thermal Expansion in the Square-Net CompoundsRE4TGe8(RE= Yb, Gd;T= Crâ€“Ni, Ag). Journal of the American Chemical Society, 2011, 133, 13840-13843.	6.6	47
41	Discovery of a Superconducting Cuâ€“Bi Intermetallic Compound by Highâ€Pressure Synthesis. Angewandte Chemie - International Edition, 2016, 55, 13446-13449.	7.2	46
42	Photoconductivity in Tl₆SI₄: A Novel Semiconductor for Hard Radiation Detection. Chemistry of Materials, 2013, 25, 2868-2877.	3.2	45
43	Superconductivity in the Narrow-Gap Semiconductor CsBi4Te6. Journal of the American Chemical Society, 2013, 135, 14540-14543.	6.6	45
44	Amorphous and Crystalline GeTe Nanocrystals. Advanced Functional Materials, 2011, 21, 2737-2743.	7.8	44
45	Design and Synthesis of a Waterâ€Stable Anionic Uraniumâ€Based Metalâ€“Organic Framework (MOF) with Ultra Large Pores. Angewandte Chemie, 2016, 128, 10514-10518.	1.6	44
46	Correlated local dipoles in PbTe. Physical Review Materials, 2018, 2, .	0.9	43
47	Crystal Growth and Characterization of the X-ray and Î³-ray Detector Material Cs₂Hg₆S₇. Crystal Growth and Design, 2012, 12, 3250-3256.	1.4	42
48	Quantitative nanostructure characterization using atomic pair distribution functions obtained from laboratory electron microscopes. Zeitschrift FÃ¼r Kristallographie, 2012, 227, 248-256.	1.1	41
49	Remarkable structural diversity and single-crystal-to-single-crystal transformations in sulfone functionalized lanthanide MOFs. CrystEngComm, 2010, 12, 1034-1037.	1.3	39
50	Brownmillerite Ca2Co2O5: Synthesis, Stability, and Re-entrant Single Crystal to Single Crystal Structural Transitions. Chemistry of Materials, 2014, 26, 7172-7182.	3.2	33
51	Direct Gap Semiconductors Pb₂BiS₂I₃, Sn₂BiS₂I₃, and Sn₂BiSI₅. Chemistry of Materials, 2016, 28, 7332-7343.	3.2	33
52	Charge Density Wave in the New Polymorphs of RE₂Ru₃Ge₅ (RE = Pr, Sm, Dy). Journal of the American Chemical Society, 2017, 139, 4130-4143.	6.6	33
53	TlSn₂I₅, a Robust Halide Antiperovskite Semiconductor for Î³-Ray Detection at Room Temperature. ACS Photonics, 2017, 4, 1805-1813.	3.2	33
54	Short-range charge density wave order in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>H</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi mathvariant="normal">T</mml:mi><mml:mrow><mml:mi mathvariant="normal">a</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:mrow></mml:math>. Physical Review B, 2019, 99, .	1.1	33

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55	Charge Density Waves in the Square Nets of Tellurium of AMRETe₄ (A = K, Na;) Tj ETQq1 1 0.784314 rgBT /O	6.6	31
56	Superconductivity and strong intrinsic defects in LaPd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 88, .	3.7	31
57	One-Dimensional Molybdenum Thiochlorides and Their Use in High Surface Area MoS_x Chalcogels. Chemistry of Materials, 2014, 26, 5151-5160.	3.2	31
58	Tuning the Magnetic Properties of New Layered Iron Chalcogenides (BaF)₂Fe_{2â€“x}Q₃ (Q = S, Se) by Changing the Defect Concentration on the Iron Sublattice. Chemistry of Materials, 2015, 27, 3280-3290.	3.2	31
59	Highly Selective Radioactive ¹³⁷Cs⁺ Capture in an Open-Framework Oxysulfide Based on Supertetrahedral Cluster. Chemistry of Materials, 2019, 31, 1628-1634.	3.2	30
60	Superconductivity in the Narrow Gap Semiconductor RbBi_{11/3}Te₆. Journal of the American Chemical Society, 2016, 138, 14694-14698.	6.6	29
61	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
62	Nonequilibrium dynamics of spontaneous symmetry breaking into a hidden state of charge-density wave. Nature Communications, 2021, 12, 566.	5.8	29
63	Coexistence and Coupling of Two Distinct Charge Density Waves in Sm₂Te₅. Journal of the American Chemical Society, 2008, 130, 3310-3312.	6.6	28
64	Oxidation State of Uranium in A₆Cu₁₂U₂S₁₅ (A = K, Rb,) Tj ETQq0 0 0 rgBT /Overlo	1.9	28
65	Concerted Rattling in CsAg₅Te₃ Leading to Ultralow Thermal Conductivity and High Thermoelectric Performance. Angewandte Chemie, 2016, 128, 11603-11608.	1.6	28
66	Structural dynamics of two-dimensional charge-density waves in CeTe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>investigated by ultrafast electron crystallography. Physical Review B, 2012, 86, .	1.1	27
67	CO Binding at a Four-Coordinate Cobaltous Porphyrin Site in a Metalâ€“Organic Framework: Structural, EPR, and Gas Adsorption Analysis. Inorganic Chemistry, 2017, 56, 4654-4661.	1.9	27
68	Ordered mesoporous Cr2O3 frameworks incorporating Keggin-type 12-phosphotungstic acids as efficient catalysts for oxidation of benzyl alcohols. Journal of Materials Chemistry, 2012, 22, 6919.	6.7	26
69	Polyethylene-BN nanosheets nanocomposites with enhanced thermal and mechanical properties. Composites Science and Technology, 2021, 204, 108631.	3.8	25
70	Emphanitic anharmonicity in PbSe at high temperature and anomalous electronic properties in the PbQ(Q=S,Se,Te) system. Physical Review B, 2018, 98, .	1.1	23
71	Long periodic ripple in a 2D hybrid halide perovskite structure using branched organic spacers. Chemical Science, 2020, 11, 12139-12148.	3.7	22
72	Effect of secondary substituent on the physical properties, crystal structures, and nanoparticle morphologies of (porphyrin)Sn(OH)2: diversity enabled via synthetic manipulations. Journal of Materials Chemistry, 2008, 18, 3640.	6.7	21

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73	NaCu₆Se₄: A Layered Compound with Mixed Valency and Metallic Properties. Inorganic Chemistry, 2014, 53, 12191-12198.	1.9	21
74	High-Surface-Area Antimony Sulfide Chalcogels. Chemistry of Materials, 2016, 28, 7744-7749.	3.2	21
75	Positional Flexibility: Syntheses and Characterization of Six Uranium Chalcogenides Related to the 2H Hexagonal Perovskite Family. Inorganic Chemistry, 2015, 54, 2851-2857.	1.9	20
76	Syntheses, Structures, and Electronic Properties of Ba₃FeUS₆and Ba₃AgUS₆. Inorganic Chemistry, 2014, 53, 2899-2903.	1.9	19
77	RE5Co4Si14(RE = Ho, Er, Tm, Yb):Â Silicides Grown from Ga Flux Showing Exceptional Resistance to Chemical and Thermal Attack. Chemistry of Materials, 2005, 17, 1636-1645.	3.2	18
78	Modulated Linear Tellurium Chains in Ba₃ScTe₅: Synthesis, Crystal Structure, Optical and Resistivity Studies, and Electronic Structure. Inorganic Chemistry, 2020, 59, 2434-2442.	1.9	18
79	Anisotropic Synthetic Allomelanin Materials via Solidâ€State Polymerization of Selfâ€Assembled 1,8â€Dihydroxynaphthalene Dimers. Angewandte Chemie - International Edition, 2021, 60, 17464-17471.	7.2	18
80	Structure inhomogeneities, shallow defects, and charge transport in the series of thermoelectric materials K2Bi8âˆ'xSbxSe13. Journal of Applied Physics, 2006, 100, 123704.	1.1	17
81	Syntheses, Crystal Structures, Transport Properties, and Theoretical Studies of Five Members of the MAn₂Q₅ Family: SrU₂S₅, BaU₂Se₅, PbU₂S₅, BaTh₂S₅, and BaU₂Te₅. Inorganic Chemistry, 2014, 53, 11626-11632.	1.9	17
82	TlHgInS₃: An Indirect-Band-Gap Semiconductor with X-ray Photoconductivity Response. Chemistry of Materials, 2015, 27, 5417-5424.	3.2	17
83	Spontaneous aggregation of lithium ion coordination polymers in fluorinated electrolytes for high-voltage batteries. Physical Chemistry Chemical Physics, 2016, 18, 10846-10849.	1.3	17
84	Mixed-Valent NaCu₄Se₃: A Two-Dimensional Metal. Inorganic Chemistry, 2016, 55, 4884-4890.	1.9	17
85	Spectroscopic signature of moment-dependent electronâ€“phonon coupling in 2H-TaS₂. Journal of Materials Chemistry C, 2017, 5, 11310-11316.	2.7	17
86	Synthesis and Characterization of Ba₂Ag₂Se₂(Se₂). Inorganic Chemistry, 2019, 58, 7837-7844.	1.9	17
87	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
88	A Double Charge Density Wave in the Single Tellurium Square Net in Cu_{0.63}EuTe₂?. Journal of the American Chemical Society, 2009, 131, 6896-6897.	6.6	16
89	Superconductivity in the intermetallic pnictide compound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Ca</mml:mtext><mml:mn>11</mml:mn></mml:msub> Physical Review B, 2014, 89, .	1.1	16
90	An Unusual Crystal Growth Method of the Chalcohalide Semiconductor, Î²-Hg₃S₂Cl₂: A New Candidate for Hard Radiation Detection. Crystal Growth and Design, 2016, 16, 2678-2684.	1.4	16

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91	Time-Resolved in Situ Polymorphic Transformation from One 12-Connected Zr-MOF to Another. , 2020, 2, 499-504.		16
92	Two new ternary chalcogenides Ba₂ZnQ₃(Q= Se, Te) with chains of ZnQ₄tetrahedra: syntheses, crystal structure, and optical and electronic properties. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 425-429.	0.3	15
93	Mercury Chalcohalide Semiconductor Hg₃Se₂Br₂ for Hard Radiation Detection. Crystal Growth and Design, 2016, 16, 6446-6453.	1.4	15
94	Two-Dimensional CsAg₅Te_{3â€“x}S_x Semiconductors: Multi-anion Chalcogenides with Dynamic Disorder and Ultralow Thermal Conductivity. Chemistry of Materials, 2018, 30, 7245-7254.	3.2	15
95	Isolation and Reactivity of Uranyl Superoxide. Angewandte Chemie - International Edition, 2021, 60, 15041-15048.	7.2	15
96	A two-dimensional type I superionic conductor. Nature Materials, 2021, 20, 1683-1688.	13.3	15
97	Synthesis and Characterization of Two Quaternary Uranium Tellurides, RbTiU3Te9and CsTiU3Te9. Inorganic Chemistry, 2014, 53, 7909-7915.	1.9	14
98	Discovery of a Superconducting Cuâ€“Bi Intermetallic Compound by Highâ€Pressure Synthesis. Angewandte Chemie, 2016, 128, 13644-13647.	1.6	14
99	Flux Crystal Growth of the RE₂Ru₃Ge₅ (RE = La, Ce,) Tj ETQq1 1 0.784314 rgBT /O 14584-14595.	1.9	14
100	Ag₂Se to KAg₃Se₂: Suppressing Orderâ€“Disorder Transitions via Reduced Dimensionality. Journal of the American Chemical Society, 2018, 140, 9193-9202.	6.6	14
101	Low Thermal Conductivity in Heteroanionic Materials with Layers of Homoleptic Polyhedra. Journal of the American Chemical Society, 2022, 144, 2569-2579.	6.6	13
102	Antiferromagnetic Kondo lattice in the layered compound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">CePd</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi> mathvariant="normal">Bi</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>and comparison to the superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvaria. Phys.	1.1	12
103	Syntheses, Crystal Structures, Optical and Theoretical Studies of the Actinide Thiophosphates SrU(PS4)2, BaU(PS4)2, and SrTh(PS4)2. Inorganic Chemistry, 2015, 54, 2970-2975.	1.9	12
104	Quaternary Pavonites A_{1+x}Sn_{2â€“x}Bi_{5+x}S₁₀ (A⁺ = Li⁺, Na⁺): Site Occupancy Disorder Defines Electronic Structure. Inorganic Chemistry, 2018, 57, 2260-2268.	1.9	12
105	Multistates and Polyamorphism in Phase-Change K₂Sb₈Se₁₃. Journal of the American Chemical Society, 2018, 140, 9261-9268.	6.6	12
106	Ternary Chalcogenides BaMxTe2 (M = Cu, Ag): Syntheses, Modulated Crystal Structures, Optical Properties, and Electronic Calculations. Inorganic Chemistry, 2020, 59, 12276-12285.	1.9	12
107	Syntheses, Crystal Structures, Resistivity Studies, and Electronic Properties of Three New Barium Actinide Tellurides: BaThTe₄, BaUTe₄, and BaUTe₆. Inorganic Chemistry, 2014, 53, 12610-12616.	1.9	11
108	Investigation of Semi-Insulating Cs₂Hg₆S₇ and Cs₂Hg_{6-x}Cd_xS₇ Alloy for Hard Radiation Detection. Crystal Growth and Design, 2014, 14, 5949-5956.	1.4	11

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109	The U5+ compound Ba9Ag10U4S24: Synthesis, structure, and electronic properties. Journal of Solid State Chemistry, 2015, 221, 398-404.	1.4	11
110	Three New Quaternary Actinide Chalcogenides Ba₂TiUTe₇, Ba₂CrUTe₇, and Ba₂CrThTe₇: Syntheses, Crystal Structures, Transport Properties, and Theoretical Studies. Inorganic Chemistry, 2015, 54, 3688-3694.	1.9	11
111	Four New Actinide Chalcogenides Ba₂Cu₄USe₆, Ba₂Cu₂ThSe₅, Ba₂Cu₂USe₅, and Sr₂Cu₂US₅: Crystal Structures and Physical Properties. Inorganic Chemistry, 2015, 54, 9138-9145.	1.9	11
112	Synthesis, Crystal Structure, Theoretical, and Resistivity Study of BaUSe₃. Inorganic Chemistry, 2016, 55, 7734-7738.	1.9	11
113	Charge Density Wave and Narrow Energy Gap at Room Temperature in 2D Pb_{3â€“x}Sb_{1+x}S₄Te_{2â^Î´} with Square Te Sheets. Journal of the American Chemical Society, 2017, 139, 11271-11276.	6.6	11
114	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
115	Mechanistic insight of KBiQ₂ (Q = S, Se) using panoramic synthesis towards synthesis-by-design. Chemical Science, 2021, 12, 1378-1391.	3.7	11
116	Î²-Technetium Dichloride: Solid-State Modulated Structure, Electronic Structure, and Physical Properties. Journal of the American Chemical Society, 2013, 135, 15955-15962.	6.6	10
117	Copper Vacancies and Heavy Holes in the Two-Dimensional Semiconductor KCu_{3â€“x}Se₂. Chemistry of Materials, 2017, 29, 6114-6121.	3.2	10
118	Antiferromagnetic Semiconductor BaFMn_{0.5}Te with Unique Mn Ordering and Red Photoluminescence. Journal of the American Chemical Society, 2019, 141, 17421-17430.	6.6	10
119	Ordering Phenomena in Complex Chalcogenides Ã¢Â€Â“ the Showcase ofA2In12Q19(A= K, Tl, NH4;Q= Se, Te) and Pseudobinary In2Q3. European Journal of Inorganic Chemistry, 2010, 2010, 367-378.	1.0	9
120	Pressure-Induced Superconductivity and Flattened Se₆ Rings in the Wide Band Gap Semiconductor Cu₂I₂Se₆. Journal of the American Chemical Society, 2019, 141, 15174-15182.	6.6	9
121	Mixed-Valent Copper Chalcogenides: Tuning Structures and Electronic Properties Using Multiple Anions. Chemistry of Materials, 2020, 32, 10146-10154.	3.2	9
122	Synthesis, Properties, and Complex Crystal Structure of Th₂Se₅. Inorganic Chemistry, 2013, 52, 944-949.	1.9	8
123	Four High-Temperature Ferromagnets in the Hfâ€“Feâ€“Sn System. Chemistry of Materials, 2014, 26, 6827-6837.	3.2	8
124	A Natural 2D Heterostructure [Pb_{3.1}Sb_{0.9}S₄][Au_xTe_{2â€“x}] with Large Transverse Nonsaturating Negative Magnetoresistance and High Electron Mobility. Journal of the American Chemical Society, 2019, 141, 7544-7553.	6.6	8
125	A unique microporous copper trimesate selenite with high selectivity for CO2. CrystEngComm, 2014, 16, 3483-3486.	1.3	7
126	La_{1â€“x}Bi_{1+x}S₃ (x â‰ˆ 0.08): An n-Type Semiconductor. Inorganic Chemistry, 2016, 55, 3547-3552.	1.9	7

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127	Syntheses, crystal structures, and resistivities of the two new ternary uranium selenides, Er3USe8 and Yb3USe8. Journal of Solid State Chemistry, 2016, 233, 90-94.	1.4	7
128	Mercouri G. Kanatzidis: Excellence and Innovations in Inorganic and Solid-State Chemistry. Inorganic Chemistry, 2017, 56, 7582-7597.	1.9	7
129	(NH₄)AgMoS₄: Synthesis, Structure and Catalytic Activity. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 2594-2597.	0.6	5
130	KCu₇P₃: A Two-Dimensional Noncentrosymmetric Metallic Pnictide. Inorganic Chemistry, 2019, 58, 10201-10208.	1.9	5
131	NpSe₂: a Binary Chalcogenide Containing Modulated Selenide Chains and Ambiguousâ€Valent Metal. Angewandte Chemie - International Edition, 2019, 58, 16130-16133.	7.2	4
132	Molecular Coordination, Structure, and Stability of Metal-Polyphosphate Complexes Resolved by Molecular Modeling and X-ray Scattering: Structural Insights on the Biological Fate of Polyphosphate. Environmental Science & Technology, 2021, 55, 14185-14193.	4.6	4
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134	Dimensionally reduced heavy atom semiconductors as candidate materials for Î³-ray detection: the case of Cs₂Hg₆S₇. Materials Research Society Symposia Proceedings, 2011, 1341, 1.	0.1	3
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