

David B Mitzi

List of Publications by Year in descending order

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256
papers

40,388
citations

3325

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2375

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272
all docs

272
docs citations

272
times ranked

22726
citing authors

#	ARTICLE	IF	CITATIONS
1	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. <i>Joule</i> , 2022, 6, 8-15.	11.7	66
2	Cubic Crystal Structure Formation and Optical Properties within the $Ag^{II}B^{II}M^{IV}X$ ($B^{II} = Sr, Pb; M^{IV} = Si, Ge, Sn; X = S, Se$) Family of Semiconductors. <i>Inorganic Chemistry</i> , 2022, 61, 2929-2944.	1.9	3
3	Impact of Structural Distortions on the Optoelectronic and Spin-Related Properties of Two-Dimensional Hybrid Perovskites. , 2022, , 1-61.		1
4	Device Performance of Emerging Photovoltaic Materials (Version 1). <i>Advanced Energy Materials</i> , 2021, 11, 2002774.	10.2	93
5	Reversible Crystal-Glass Transition in a Metal Halide Perovskite. <i>Advanced Materials</i> , 2021, 33, e2005868.	11.1	54
6	Optoelectronic and material properties of solution-processed Earth-abundant $Cu_2BaSn(S, Se)_4$ films for solar cell applications. <i>Nano Energy</i> , 2021, 80, 105556.	8.2	23
7	Porous $Cu_2BaSn(S, Se)_4$ Film as a Photocathode Using Non-Toxic Solvent and a Ball-Milling Approach. <i>ACS Applied Energy Materials</i> , 2021, 4, 81-87.	2.5	7
8	p-Type molecular doping by charge transfer in halide perovskite. <i>Materials Advances</i> , 2021, 2, 2956-2965.	2.6	17
9	Mechanism of Additive-Assisted Room-Temperature Processing of Metal Halide Perovskite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13212-13225.	4.0	27
10	Electrical doping in halide perovskites. <i>Nature Reviews Materials</i> , 2021, 6, 531-549.	23.3	189
11	Remarkably Weak Anisotropy in Thermal Conductivity of Two-Dimensional Hybrid Perovskite Butylammonium Lead Iodide Crystals. <i>Nano Letters</i> , 2021, 21, 3708-3714.	4.5	26
12	Structural, Optical, and Electronic Properties of Two Quaternary Chalcogenide Semiconductors: Ag_2SrSiS_4 and Ag_2SrGeS_4 . <i>Inorganic Chemistry</i> , 2021, 60, 12206-12217.	1.9	8
13	Structural descriptor for enhanced spin-splitting in 2D hybrid perovskites. <i>Nature Communications</i> , 2021, 12, 4982.	5.8	78
14	Optoelectronic property comparison for isostructural $Cu_2BaGeSe_4$ and Cu_2BaSnS_4 solar absorbers. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23619-23630.	5.2	10
15	Alkyl-Aryl Cation Mixing in Chiral 2D Perovskites. <i>Journal of the American Chemical Society</i> , 2021, 143, 18114-18120.	6.6	57
16	Growth and Photovoltaic Device Application of $Cu_2BaGeSnSe_4$ Films Prepared by Selenization of Sequentially Deposited Precursors. <i>ACS Applied Energy Materials</i> , 2021, 4, 11528-11536.	2.5	5
17	Photoluminescence study of solution-deposited Cu_2BaSnS_4 thin films. <i>APL Materials</i> , 2021, 9, .	2.2	5
18	Device Performance of Emerging Photovoltaic Materials (Version 2). <i>Advanced Energy Materials</i> , 2021, 11, .	10.2	66

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19	Solution-based synthesis of kesterite thin film semiconductors. <i>JPhys Energy</i> , 2020, 2, 012003.	2.3	38
20	Origin of Broad-Band Emission and Impact of Structural Dimensionality in Tin-Alloyed Ruddlesden–Popper Hybrid Lead Iodide Perovskites. <i>ACS Energy Letters</i> , 2020, 5, 347-352.	8.8	55
21	Bifacial Perovskite Solar Cells via a Rapid Lamination Process. <i>ACS Applied Energy Materials</i> , 2020, 3, 9493-9497.	2.5	12
22	Electronic structure and photophysics of a supermolecular iron complex having a long MLCT-state lifetime and panchromatic absorption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20430-20437.	3.3	23
23	Organic-to-inorganic structural chirality transfer in a 2D hybrid perovskite and impact on Rashba-Dresselhaus spin-orbit coupling. <i>Nature Communications</i> , 2020, 11, 4699.	5.8	200
24	High-Quality MAPbBr ₃ Cuboid Film with Promising Optoelectronic Properties Prepared by a Hot Methylamine Precursor Approach. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24498-24504.	4.0	14
25	High-temperature decomposition of Cu ₂ BaSnS ₄ with Sn loss reveals newly identified compound Cu ₂ Ba ₃ Sn ₂ S ₈ . <i>Journal of Materials Chemistry A</i> , 2020, 8, 11346-11353.	5.2	8
26	Highly Distorted Chiral Two-Dimensional Tin Iodide Perovskites for Spin Polarized Charge Transport. <i>Journal of the American Chemical Society</i> , 2020, 142, 13030-13040.	6.6	198
27	Structural Tolerance Factor Approach to Defect-Resistant I ₂ -II-IV-X ₄ Semiconductor Design. <i>Chemistry of Materials</i> , 2020, 32, 1636-1649.	3.2	25
28	Is Cs ₂ TiBr ₆ a promising Pb-free perovskite for solar energy applications?. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4049-4054.	5.2	62
29	Impact of PbI ₂ Passivation and Grain Size Engineering in CH ₃ NH ₃ PbI ₃ Solar Absorbers as Revealed by Carrier-Resolved Photo-Hall Technique. <i>Advanced Energy Materials</i> , 2019, 9, 1902706.	10.2	52
30	Carrier-resolved photo-Hall effect. <i>Nature</i> , 2019, 575, 151-155.	13.7	66
31	Mg Doped CuCrO ₂ as Efficient Hole Transport Layers for Organic and Perovskite Solar Cells. <i>Nanomaterials</i> , 2019, 9, 1311.	1.9	24
32	Resolving Rotational Stacking Disorder and Electronic Level Alignment in a 2D Oligothiophene-Based Lead Iodide Perovskite. <i>Chemistry of Materials</i> , 2019, 31, 8523-8532.	3.2	26
33	Melting temperature suppression of layered hybrid lead halide perovskites via organic ammonium cation branching. <i>Chemical Science</i> , 2019, 10, 1168-1175.	3.7	55
34	Dual-source evaporation of silver bismuth iodide films for planar junction solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2095-2105.	5.2	63
35	Interfacial Effects during Rapid Lamination within MAPbI ₃ Thin Films and Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 5083-5093.	2.5	41
36	Phase-Pure Hybrid Layered Lead Iodide Perovskite Films Based on a Two-Step Melt-Processing Approach. <i>Chemistry of Materials</i> , 2019, 31, 4267-4274.	3.2	37

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37	Tunable internal quantum well alignment in rationally designed oligomer-based perovskite films deposited by resonant infrared matrix-assisted pulsed laser evaporation. <i>Materials Horizons</i> , 2019, 6, 1707-1716.	6.4	48
38	Direct-Bandgap 2D Silver-Bismuth Iodide Double Perovskite: The Structure-Directing Influence of an Oligothiophene Spacer Cation. <i>Journal of the American Chemical Society</i> , 2019, 141, 7955-7964.	6.6	151
39	Introduction: Perovskites. <i>Chemical Reviews</i> , 2019, 119, 3033-3035.	23.0	76
40	Stereochemically active lead chloride enantiomers mediated by homochiral organic cation. <i>Polyhedron</i> , 2019, 158, 445-448.	1.0	15
41	Fully Air-Bladed High-Efficiency Perovskite Photovoltaics. <i>Joule</i> , 2019, 3, 402-416.	11.7	119
42	Synthetic Approaches for Halide Perovskite Thin Films. <i>Chemical Reviews</i> , 2019, 119, 3193-3295.	23.0	454
43	Phase and film formation pathway for vacuum-deposited $\text{Cu}_2\text{BaSn}(\text{S},\text{Se})_4$ absorber layers. <i>Physical Review Materials</i> , 2019, 3, .	0.9	10
44	MAPbI_3 Solar Cells with Absorber Deposited by Resonant Infrared Matrix-Assisted Pulsed Laser Evaporation. <i>ACS Energy Letters</i> , 2018, 3, 270-275.	8.8	32
45	Efficient and Stable $\text{Pt}/\text{TiO}_2/\text{CdS}/\text{Cu}_2\text{BaSn}(\text{S},\text{Se})_4$ Photocathode for Water Electrolysis Applications. <i>ACS Energy Letters</i> , 2018, 3, 177-183.	8.8	75
46	A Versatile Thin-Film Deposition Method for Multidimensional Semiconducting Bismuth Halides. <i>Chemistry of Materials</i> , 2018, 30, 3538-3544.	3.2	52
47	Deposition of Methylammonium Lead Triiodide by Resonant Infrared Matrix-Assisted Pulsed Laser Evaporation. <i>Journal of Electronic Materials</i> , 2018, 47, 917-926.	1.0	19
48	Room-temperature fabrication of a delafossite CuCrO_2 hole transport layer for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 469-477.	5.2	91
49	Photovoltaic Effect in Indium(I) Iodide Thin Films. <i>Chemistry of Materials</i> , 2018, 30, 8226-8232.	3.2	13
50	Tunable Semiconductors: Control over Carrier States and Excitations in Layered Hybrid Organic-Inorganic Perovskites. <i>Physical Review Letters</i> , 2018, 121, 146401.	2.9	103
51	Grain-Resolved Ultrafast Photophysics in $\text{Cu}_2\text{BaSnS}_4$ Semiconductors Using Pump-Probe Diffuse Reflectance Spectroscopy and Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39615-39623.	4.0	13
52	Carrier Dynamics Engineering for High-Performance Electron-Transport-Layer-free Perovskite Photovoltaics. <i>CheM</i> , 2018, 4, 2405-2417.	5.8	57
53	Band Gap Tailoring and Structure-Composition Relationship within the Alloyed Semiconductor $\text{Cu}_2\text{BaGe}_2\text{Sn}_2\text{Se}_4$. <i>Chemistry of Materials</i> , 2018, 30, 6566-6574.	3.2	25
54	Phase Stability and Electronic Structure of Prospective Sb-Based Mixed Sulfide and Iodide 3D Perovskite $(\text{CH}_3\text{NH}_3)\text{SbSI}_2$. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3829-3833.	2.1	24

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55	Solution-Processed Earth-Abundant $\text{Cu}_2\text{BaSn}(\text{S},\text{Se})_4$ Solar Absorber Using a Low-Toxicity Solvent. <i>Chemistry of Materials</i> , 2018, 30, 6116-6123.	3.2	43
56	Resonant Infrared Matrix-Assisted Pulsed Laser Evaporation of Hybrid Perovskites. , 2018, , .		0
57	Defect Engineering in Multinary Earth-Abundant Chalcogenide Photovoltaic Materials. <i>Advanced Energy Materials</i> , 2017, 7, 1602366.	10.2	250
58	The Steady Rise of Kesterite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 776-779.	8.8	189
59	Earth-Abundant Chalcogenide Photovoltaic Devices with over 5% Efficiency Based on a $\text{Cu}_2\text{BaSn}(\text{S},\text{Se})_4$ Absorber. <i>Advanced Materials</i> , 2017, 29, 1606945.	11.1	112
60	Intrinsic Instability of $\text{Cs}_2\text{In}(\text{I})\text{M}(\text{III})\text{X}_6$ (M = Bi, Sb; X = Halogen) Double Perovskites: A Combined Density Functional Theory and Experimental Study. <i>Journal of the American Chemical Society</i> , 2017, 139, 6054-6057.	6.6	253
61	Bandgap Engineering of Lead-Free Double Perovskite $\text{Cs}_2\text{AgBiBr}_6$ through Trivalent Metal Alloying. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8158-8162.	7.2	425
62	Bandgap Engineering of Lead-Free Double Perovskite $\text{Cs}_2\text{AgBiBr}_6$ through Trivalent Metal Alloying. <i>Angewandte Chemie</i> , 2017, 129, 8270-8274.	1.6	40
63	Photovoltaic Materials: Defect Engineering in Multinary Earth-Abundant Chalcogenide Photovoltaic Materials (<i>Adv. Energy Mater.</i> 11/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	10.2	2
64	Parity-Forbidden Transitions and Their Impact on the Optical Absorption Properties of Lead-Free Metal Halide Perovskites and Double Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2999-3007.	2.1	441
65	Efficient Generation of Long-Lived Triplet Excitons in 2D Hybrid Perovskite. <i>Advanced Materials</i> , 2017, 29, 1604278.	11.1	81
66	Searching for promising new perovskite-based photovoltaic absorbers: the importance of electronic dimensionality. <i>Materials Horizons</i> , 2017, 4, 206-216.	6.4	553
67	Heterovalent B-Site Co-Alloying Approach for Halide Perovskite Bandgap Engineering. <i>ACS Energy Letters</i> , 2017, 2, 2486-2490.	8.8	44
68	Additive engineering for high-performance room-temperature-processed perovskite absorbers with micron-size grains and microsecond-range carrier lifetimes. <i>Energy and Environmental Science</i> , 2017, 10, 2365-2371.	15.6	157
69	I_2IV_4 (I = Cu, Ag; II = Sr, Ba; IV = Ge, Sn; VI = S, Se): Chalcogenides for Thin-Film Photovoltaics. <i>Chemistry of Materials</i> , 2017, 29, 7868-7879.	3.2	87
70	Chemical Origin of the Stability Difference between Copper(I)- and Silver(I)-Based Halide Double Perovskites. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12107-12111.	7.2	89
71	Two-Dimensional Lead(II) Halide-Based Hybrid Perovskites Templated by Acene Alkylamines: Crystal Structures, Optical Properties, and Piezoelectricity. <i>Inorganic Chemistry</i> , 2017, 56, 9291-9302.	1.9	397
72	Chemical Origin of the Stability Difference between Copper(I)- and Silver(I)-Based Halide Double Perovskites. <i>Angewandte Chemie</i> , 2017, 129, 12275-12279.	1.6	79

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73	Candidate photoferroic absorber materials for thin-film solar cells from naturally occurring minerals: enargite, stephanite, and bournonite. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1339-1350.	2.5	32
74	Melt Processing of Hybrid Organic-Inorganic Lead Iodide Layered Perovskites. <i>Chemistry of Materials</i> , 2017, 29, 6200-6204.	3.2	67
75	Effects of Cd Diffusion and Doping in High-Performance Perovskite Solar Cells Using CdS as Electron Transport Layer. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16437-16445.	1.5	89
76	The current status and future prospects of kesterite solar cells: a brief review. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 879-898.	4.4	316
77	Density-functional theory computer simulations of CZTS _{0.25} Se _{0.75} alloy phase diagrams. <i>Journal of Chemical Physics</i> , 2016, 145, .	1.2	12
78	Organic-Inorganic Perovskites: Structural Versatility for Functional Materials Design. <i>Chemical Reviews</i> , 2016, 116, 4558-4596.	23.0	2,147
79	Crystal Structure of AgBi ₂ I ₇ Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3903-3907.	2.1	64
80	Synthesis and Characterization of an Earth-Abundant Cu ₂ BaSn(S,Se) ₄ Chalcogenide for Photoelectrochemical Cell Application. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4554-4561.	2.1	54
81	Employing Lead Thiocyanate Additive to Reduce the Hysteresis and Boost the Fill Factor of Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2016, 28, 5214-5221.	11.1	487
82	BaCu ₂ Sn(S,Se) ₄ : Earth-Abundant Chalcogenides for Thin-Film Photovoltaics. <i>Chemistry of Materials</i> , 2016, 28, 4771-4780.	3.2	131
83	Fill Factor Losses in Cu ₂ ZnSn(S _x Se _{1-x}) ₄ Solar Cells: Insights from Physical and Electrical Characterization of Devices and Exfoliated Films. <i>Advanced Energy Materials</i> , 2016, 6, 1501609.	10.2	84
84	Alloying and Defect Control within Chalcogenide Perovskites for Optimized Photovoltaic Application. <i>Chemistry of Materials</i> , 2016, 28, 821-829.	3.2	175
85	Photovoltaic Properties of Two-Dimensional (CH ₃ NH ₃) ₂ Pb(SCN) ₂ I ₂ Perovskite: A Combined Experimental and Density Functional Theory Study. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1213-1218.	2.1	135
86	Viability of Lead-Free Perovskites with Mixed Chalcogen and Halogen Anions for Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6435-6441.	1.5	72
87	Thin-Film Deposition and Characterization of a Sn-Deficient Perovskite Derivative Cs ₂ Sn ₆ . <i>Chemistry of Materials</i> , 2016, 28, 2315-2322.	3.2	329
88	Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. <i>Advanced Materials</i> , 2015, 27, 5102-5112.	11.1	372
89	High intensity and integrated Suns-Voc characterization of high performance kesterite solar cells. , 2015, , .		1
90	Impact of Nanoscale Elemental Distribution in High-Performance Kesterite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1402180.	10.2	120

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91	Thin-Film Preparation and Characterization of Cs ₃ Sb ₂ I ₉ : A Lead-Free Layered Perovskite Semiconductor. Chemistry of Materials, 2015, 27, 5622-5632.	3.2	653
92	Preface of E-MRS 2014 symposium A. Thin Solid Films, 2015, 582, 1.	0.8	0
93	Fabrication and Electronic Properties of CZTSe Single Crystals. IEEE Journal of Photovoltaics, 2015, 5, 390-394.	1.5	22
94	The Role of Sodium as a Surfactant and Suppressor of Non-Radiative Recombination at Internal Surfaces in Cu ₂ ZnSnS ₄ . Advanced Energy Materials, 2015, 5, 1400849.	10.2	186
95	Atomic layer deposition of Al-incorporated Zn(O,S) thin films with tunable electrical properties. Applied Physics Letters, 2014, 105, .	1.5	18
96	Perovskites in the spotlight. MRS Bulletin, 2014, 39, 768-769.	1.7	8
97	Device Characteristics of CZTSSe Thin-Film Solar Cells with 12.6% Efficiency. Advanced Energy Materials, 2014, 4, 1301465.	10.2	2,651
98	High-Efficiency Devices With Pure Solution-Processed Cu ₂ ZnSn(S,Se) ₄ Absorbers. IEEE Journal of Photovoltaics, 2014, 4, 483-485.	1.5	29
99	Electronic and elemental properties of the Cu ₂ ZnSn(S,Se) ₄ surface and grain boundaries. Applied Physics Letters, 2014, 104, .	1.5	79
100	Optical designs that improve the efficiency of Cu ₂ ZnSn(S,Se) ₄ solar cells. Energy and Environmental Science, 2014, 7, 1029-1036.	15.6	200
101	Sun-<i>VOC</i> characteristics of high performance kesterite solar cells. Journal of Applied Physics, 2014, 116, .	1.1	90
102	Semi-empirical device model for Cu ₂ ZnSn(S,Se) ₄ solar cells. Applied Physics Letters, 2014, 105, .	1.5	81
103	High Efficiency Cu ₂ ZnSn(S,Se) ₄ Solar Cells by Applying a Double In ₂ S ₃ /CdS Emitter. Advanced Materials, 2014, 26, 7427-7431.	11.1	400
104	CdS and Cd-Free Buffer Layers on Solution Phase Grown Cu ₂ ZnSn(S _x Se _{1-x}) ₄ : Band Alignments and Electronic Structure Determined with Femtosecond Ultraviolet Photoelectron Spectroscopy. Materials Research Society Symposia Proceedings, 2014, 1638, 1.	0.1	3
105	Solution-processed Cu(In,Ga)(S,Se) ₂ absorber yielding a 15.2% efficient solar cell. Progress in Photovoltaics: Research and Applications, 2013, 21, 82-87.	4.4	343
106	The state and future prospects of kesterite photovoltaics. Energy and Environmental Science, 2013, 6, 3171.	15.6	294
107	Minority carrier diffusion length extraction in Cu ₂ ZnSn(S,Se) ₄ solar cells. Journal of Applied Physics, 2013, 114, 114511.	1.1	91
108	Band tailing and efficiency limitation in kesterite solar cells. Applied Physics Letters, 2013, 103, .	1.5	576

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109	Prospects and performance limitations for Cu ₂ ZnSn(S,Se) ₄ photovoltaic technology. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 201110432.	1.6	166
110	Beyond 11% Efficiency: Characteristics of State-of-the-Art Cu ₂ ZnSn(S,Se) ₄ Solar Cells. Advanced Energy Materials, 2013, 3, 34-38.	10.2	922
111	Cd-free buffer layer materials on Cu ₂ ZnSn(S _x Se _{1-x}) ₄ : Band alignments with ZnO, ZnS, and In ₂ S ₃ . Applied Physics Letters, 2012, 100, .	1.5	178
112	Materials interface engineering for solution-processed photovoltaics. Nature, 2012, 488, 304-312.	13.7	1,000
113	Electronically active defects in the Cu ₂ ZnSn(S _x S _{1-x}) ₄ alloys as revealed by transient photocapacitance spectroscopy. Applied Physics Letters, 2012, 101, 142106.	1.5	48
114	Hydrazine-Processed Ge-Substituted CZTSe Solar Cells. Chemistry of Materials, 2012, 24, 4588-4593.	3.2	165
115	Electronic properties of the Cu ₂ ZnSn(S _x S _{1-x}) ₄ absorber layer in solar cells as revealed by admittance spectroscopy and related methods. Applied Physics Letters, 2012, 100, .	1.5	194
116	Device characteristics of a 10.1% hydrazine-processed Cu ₂ ZnSn(S _x S _{1-x}) ₄ solar cell. Progress in Photovoltaics: Research and Applications, 2012, 20, 6-11.	4.4	720
117	Low band gap liquid-processed CZTSe solar cell with 10.1% efficiency. Energy and Environmental Science, 2012, 5, 7060.	15.6	303
118	Structural and elemental characterization of high efficiency Cu ₂ ZnSnS ₄ solar cells. Applied Physics Letters, 2011, 98, .	1.5	158
119	Structure and Electronic Properties of Grain Boundaries in Earth-Abundant Photovoltaic Absorber Cu ₂ ZnSnSe ₄ . ACS Nano, 2011, 5, 8613-8619.	7.3	83
120	Progress towards marketable earth-abundant chalcogenide solar cells. Thin Solid Films, 2011, 519, 7378-7381.	0.8	137
121	Band alignment at the Cu ₂ ZnSn(S _x Se _{1-x}) ₄ /CdS interface. Applied Physics Letters, 2011, 98, .	1.5	256
122	The path towards a high-performance solution-processed kesterite solar cell. Solar Energy Materials and Solar Cells, 2011, 95, 1421-1436.	3.0	1,118
123	Defects in Cu(In,Ga)Se ₂ Chalcopyrite Semiconductors: A Comparative Study of Material Properties, Defect States, and Photovoltaic Performance. Advanced Energy Materials, 2011, 1, 845-853.	10.2	134
124	High efficiency Cu ₂ ZnSn(S _x Se _{1-x}) ₄ thin film solar cells by thermal co-evaporation. , 2011, , .		2
125	Direct Liquid Coating of Chalcopyrite Light-Absorbing Layers for Photovoltaic Devices. European Journal of Inorganic Chemistry, 2010, 2010, 17-28.	1.0	216
126	High-Efficiency Solar Cell with Earth-Abundant Liquid-Processed Absorber. Advanced Materials, 2010, 22, E156-9.	11.1	1,035

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127	Photovoltaic Devices: High-Efficiency Solar Cell with Earth-Abundant Liquid-Processed Absorber (Adv.) Tj ETQq1 1 0.784314 rgB // 11.1 120	11.1	120
128	Antimony assisted low-temperature processing of $\text{CuIn}_{1-x}\text{Ga}_x\text{Se}_2$ solar cells. Thin Solid Films, 2010, 519, 852-856.	0.8	74
129	Non-vacuum methods for formation of $\text{Cu}(\text{In}, \text{Ga})(\text{Se}, \text{S})_2$ thin film photovoltaic absorbers. Progress in Photovoltaics: Research and Applications, 2010, 18, 434-452.	4.4	297
130	12% Efficiency $\text{CuIn}(\text{Se}, \text{S})_2$ Photovoltaic Device Prepared Using a Hydrazine Solution Process. Chemistry of Materials, 2010, 22, 1010-1014.	3.2	189
131	Optimization of CIGS-Based PV Device through Antimony Doping. Chemistry of Materials, 2010, 22, 285-287.	3.2	139
132	Loss mechanisms in hydrazine-processed $\text{Cu}_2\text{ZnSn}(\text{Se}, \text{S})_4$ solar cells. Applied Physics Letters, 2010, 97, .	1.5	341
133	Towards marketable efficiency solution-processed kesterite and chalcopyrite photovoltaic devices. , 2010, , .		13
134	Characterization of indium tin oxide and Al-doped Zinc oxide thin films deposited by confocal RF magnetron sputter deposition. , 2009, , .		2
135	Solution Processing of Chalcogenide Semiconductors via Dimensional Reduction. Advanced Materials, 2009, 21, 3141-3158.	11.1	208
136	Hydrazine-based deposition route for device-quality CIGS films. Thin Solid Films, 2009, 517, 2158-2162.	0.8	135
137	Solvent properties of hydrazine in the preparation of metal chalcogenide bulk materials and films. Dalton Transactions, 2009, , 6078.	1.6	73
138	A High-Efficiency Solution-Deposited Thin-Film Photovoltaic Device. Advanced Materials, 2008, 20, 3657-3662.	11.1	343
139	Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. Progress in Solid State Chemistry, 2008, 36, 1-133.	3.9	58
140	Novel Strategy for Diameter-Selective Separation and Functionalization of Single-Wall Carbon Nanotubes. Nano Letters, 2008, 8, 469-472.	4.5	60
141	Solution processing of CIGS absorber layers using a hydrazine-based approach. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	6
142	$\text{CuIn}(\text{Se}, \text{S})_2$ Absorbers Processed using a Hydrazine-Based Solution Approach. Materials Research Society Symposia Proceedings, 2008, 1123, 3.	0.1	0
143	$\text{CuIn}(\text{Se}, \text{S})_2$ Absorbers Processed using a Hydrazine-Based Solution Approach. , 2008, , .		1
144	Diels-Alder Adduct of Pentacene and Maleimide: Crystal Growth and the Influence of Solvent Molecules on Structure and Hydrogen Bonding. Crystal Growth and Design, 2007, 7, 691-697.	1.4	9

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145	Synthesis, Structure, and Properties of Organic-Inorganic Perovskites and Related Materials. Progress in Inorganic Chemistry, 2007, , 1-121.	3.0	566
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