

David B Mitzi

List of Publications by Year in descending order

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256
papers

40,388
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times ranked

22726
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Device Characteristics of CZTSSe Thin-Film Solar Cells with 12.6% Efficiency. <i>Advanced Energy Materials</i> , 2014, 4, 1301465. | 10.2 | 2,651 |
| 2 | Organic-Inorganic Perovskites: Structural Versatility for Functional Materials Design. <i>Chemical Reviews</i> , 2016, 116, 4558-4596. | 23.0 | 2,147 |
| 3 | Organic-Inorganic Hybrid Materials as Semiconducting Channels in Thin-Film Field-Effect Transistors. <i>Science</i> , 1999, 286, 945-947. | 6.0 | 1,839 |
| 4 | The path towards a high-performance solution-processed kesterite solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1421-1436. | 3.0 | 1,118 |
| 5 | High-Efficiency Solar Cell with Earth-Abundant Liquid-Processed Absorber. <i>Advanced Materials</i> , 2010, 22, E156-9. | 11.1 | 1,035 |
| 6 | Materials interface engineering for solution-processed photovoltaics. <i>Nature</i> , 2012, 488, 304-312. | 13.7 | 1,000 |
| 7 | Conducting tin halides with a layered organic-based perovskite structure. <i>Nature</i> , 1994, 369, 467-469. | 13.7 | 933 |
| 8 | Beyond 11% Efficiency: Characteristics of State-of-the-Art $\text{Cu}_{2}\text{ZnSn}(\text{S},\text{Se})_{4}$ Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 34-38. | 10.2 | 922 |
| 9 | Templating and structural engineering in organic-inorganic perovskites. <i>Dalton Transactions RSC</i> , 2001, , 1-12. | 2.3 | 794 |
| 10 | Device characteristics of a 10.1% hydrazine-processed $\text{Cu}_{2}\text{ZnSn}(\text{Se},\text{S})_{4}$ solar cell. <i>Progress in Photovoltaics: Research and Applications</i> , 2012, 20, 6-11. | 4.4 | 720 |
| 11 | Conducting Layered Organic-inorganic Halides Containing <110>-Oriented Perovskite Sheets. <i>Science</i> , 1995, 267, 1473-1476. | 6.0 | 718 |
| 12 | Thin-Film Preparation and Characterization of $\text{Cs}_{3}\text{Sb}_{2}\text{I}_{9}$: A Lead-Free Layered Perovskite Semiconductor. <i>Chemistry of Materials</i> , 2015, 27, 5622-5632. | 3.2 | 653 |
| 13 | Organic-inorganic electronics. <i>IBM Journal of Research and Development</i> , 2001, 45, 29-45. | 3.2 | 614 |
| 14 | Band tailing and efficiency limitation in kesterite solar cells. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 576 |
| 15 | Synthesis, Structure, and Properties of Organic-Inorganic Perovskites and Related Materials. <i>Progress in Inorganic Chemistry</i> , 2007, , 1-121. | 3.0 | 566 |
| 16 | Searching for promising new perovskite-based photovoltaic absorbers: the importance of electronic dimensionality. <i>Materials Horizons</i> , 2017, 4, 206-216. | 6.4 | 553 |
| 17 | Synthesis and Characterization of Organic-Inorganic Perovskite Thin Films Prepared Using a Versatile Two-Step Dipping Technique. <i>Chemistry of Materials</i> , 1998, 10, 403-411. | 3.2 | 548 |
| 18 | Synthesis, Crystal Structure, and Optical and Thermal Properties of $(\text{C}_{4}\text{H}_{9}\text{NH}_{3})_{2}\text{MI}_{4}$ (M = Ge, Sn, Pb). <i>Chemistry of Materials</i> , 1996, 8, 791-800. | 3.2 | 504 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | 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 |
| 20 | High-mobility ultrathin semiconducting films prepared by spin coating. <i>Nature</i> , 2004, 428, 299-303. | 13.7 | 485 |
| 21 | Synthetic Approaches for Halide Perovskite Thin Films. <i>Chemical Reviews</i> , 2019, 119, 3193-3295. | 23.0 | 454 |
| 22 | Tuning the Band Gap in Hybrid Tin Iodide Perovskite Semiconductors Using Structural Templating. <i>Inorganic Chemistry</i> , 2005, 44, 4699-4705. | 1.9 | 452 |
| 23 | 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 |
| 24 | Bandgap Engineering of Lead-Free Double Perovskite Cs ₂ AgBiBr ₆ through Trivalent Metal Alloying. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8158-8162. | 7.2 | 425 |
| 25 | Electroluminescence from an Organic-Inorganic Perovskite Incorporating a Quaterthiophene Dye within Lead Halide Perovskite Layers. <i>Chemistry of Materials</i> , 1999, 11, 3028-3030. | 3.2 | 424 |
| 26 | High Efficiency Cu ₂ ZnSn(S,Se) ₄ Solar Cells by Applying a Double In ₂ S ₃ /CdS Emitter. <i>Advanced Materials</i> , 2014, 26, 7427-7431. | 11.1 | 400 |
| 27 | 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 |
| 28 | Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. <i>Advanced Materials</i> , 2015, 27, 5102-5112. | 11.1 | 372 |
| 29 | Thin-Film Deposition of Organic-Inorganic Hybrid Materials. <i>Chemistry of Materials</i> , 2001, 13, 3283-3298. | 3.2 | 363 |
| 30 | A High-Efficiency Solution-Deposited Thin-Film Photovoltaic Device. <i>Advanced Materials</i> , 2008, 20, 3657-3662. | 11.1 | 343 |
| 31 | Solution-processed Cu(In,Ga)(S,Se) ₂ absorber yielding a 15.2% efficient solar cell. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 82-87. | 4.4 | 343 |
| 32 | Loss mechanisms in hydrazine-processed Cu ₂ ZnSn(S ₂ Se) ₄ solar cells. <i>Applied Physics Letters</i> , 2010, 97, . | 1.5 | 341 |
| 33 | Thin-Film Deposition and Characterization of a Sn-Deficient Perovskite Derivative Cs ₂ SnI ₆ . <i>Chemistry of Materials</i> , 2016, 28, 2315-2322. | 3.2 | 329 |
| 34 | Structurally Tailored Organic-Inorganic Perovskites: Optical Properties and Solution-Processed Channel Materials for Thin-Film Transistors. <i>Chemistry of Materials</i> , 2001, 13, 3728-3740. | 3.2 | 326 |
| 35 | Solution-processed inorganic semiconductors. <i>Journal of Materials Chemistry</i> , 2004, 14, 2355. | 6.7 | 320 |
| 36 | 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 |

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|----|--|------|-----------|
| 37 | Design, Structure, and Optical Properties of Organic-Inorganic Perovskites Containing an Oligothiophene Chromophore. <i>Inorganic Chemistry</i> , 1999, 38, 6246-6256. | 1.9 | 314 |
| 38 | Low band gap liquid-processed CZTSe solar cell with 10.1% efficiency. <i>Energy and Environmental Science</i> , 2012, 5, 7060. | 15.6 | 303 |
| 39 | Non-vacuum methods for formation of $\text{Cu}(\text{In, Ga})(\text{Se, S})_2$ thin film photovoltaic absorbers. <i>Progress in Photovoltaics: Research and Applications</i> , 2010, 18, 434-452. | 4.4 | 297 |
| 40 | The state and future prospects of kesterite photovoltaics. <i>Energy and Environmental Science</i> , 2013, 6, 3171. | 15.6 | 294 |
| 41 | Growth and properties of oxygen- and ion-doped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ single crystals. <i>Physical Review B</i> , 1990, 41, 6564-6574. | 1.1 | 280 |
| 42 | Synthesis and Characterization of $[\text{NH}_2\text{C}(\text{I})\text{:NH}_2]_3\text{MI}_5$ (M = Sn, Pb): Stereochemical Activity in Divalent Tin and Lead Halides Containing Single .itbbrac.110.rtbbrac. Perovskite Sheets. <i>Journal of the American Chemical Society</i> , 1995, 117, 5297-5302. | 6.6 | 275 |
| 43 | Band alignment at the $\text{Cu}_2\text{ZnSn}(\text{SxSe}_{1-x})_4/\text{CdS}$ interface. <i>Applied Physics Letters</i> , 2011, 98, . | 1.5 | 256 |
| 44 | 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 |
| 45 | Defect Engineering in Multinary Earth-Abundant Chalcogenide Photovoltaic Materials. <i>Advanced Energy Materials</i> , 2017, 7, 1602366. | 10.2 | 250 |
| 46 | Anomalous spectral weight transfer at the superconducting transition of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physical Review Letters</i> , 1991, 66, 2160-2163. | 2.9 | 248 |
| 47 | Observation of a commensurate array of flux chains in tilted flux lattices in Bi-Sr-Ca-Cu-O single crystals. <i>Physical Review Letters</i> , 1991, 66, 112-115. | 2.9 | 223 |
| 48 | Organic-Inorganic Perovskites Containing Trivalent Metal Halide Layers: The Templating Influence of the Organic Cation Layer. <i>Inorganic Chemistry</i> , 2000, 39, 6107-6113. | 1.9 | 221 |
| 49 | Direct Liquid Coating of Chalcopyrite Light-Absorbing Layers for Photovoltaic Devices. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 17-28. | 1.0 | 216 |
| 50 | Solution Processing of Chalcogenide Semiconductors via Dimensional Reduction. <i>Advanced Materials</i> , 2009, 21, 3141-3158. | 11.1 | 208 |
| 51 | Optical designs that improve the efficiency of $\text{Cu}_2\text{ZnSn}(\text{S,Se})_4$ solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 1029-1036. | 15.6 | 200 |
| 52 | 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 |
| 53 | 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 |
| 54 | Electronic properties of the $\text{Cu}_2\text{ZnSn}(\text{Se,S})_4$ absorber layer in solar cells as revealed by admittance spectroscopy and related methods. <i>Applied Physics Letters</i> , 2012, 100, . | 1.5 | 194 |

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|----|--|------|-----------|
| 55 | 12% Efficiency $\text{CuIn}(\text{Se,S})_2$ Photovoltaic Device Prepared Using a Hydrazine Solution Process. <i>Chemistry of Materials</i> , 2010, 22, 1010-1014. | 3.2 | 189 |
| 56 | The Steady Rise of Kesterite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 776-779. | 8.8 | 189 |
| 57 | Electrical doping in halide perovskites. <i>Nature Reviews Materials</i> , 2021, 6, 531-549. | 23.3 | 189 |
| 58 | The Role of Sodium as a Surfactant and Suppressor of Non-Radiative Recombination at Internal Surfaces in $\text{Cu}_2\text{ZnSnS}_4$. <i>Advanced Energy Materials</i> , 2015, 5, 1400849. | 10.2 | 186 |
| 59 | Thin Film Deposition of Organic-Inorganic Hybrid Materials Using a Single Source Thermal Ablation Technique. <i>Chemistry of Materials</i> , 1999, 11, 542-544. | 3.2 | 185 |
| 60 | Cd-free buffer layer materials on $\text{Cu}_2\text{ZnSn}(\text{SxSe}_{1-x})_4$: Band alignments with ZnO, ZnS, and In_2S_3 . <i>Applied Physics Letters</i> , 2012, 100, . | 1.5 | 178 |
| 61 | SQUID picovoltometry of single crystal $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$: Observation of the crossover from high-temperature Arrhenius to low-temperature vortex-glass behavior. <i>Physical Review Letters</i> , 1992, 68, 2672-2675. | 2.9 | 176 |
| 62 | Alloying and Defect Control within Chalcogenide Perovskites for Optimized Photovoltaic Application. <i>Chemistry of Materials</i> , 2016, 28, 821-829. | 3.2 | 175 |
| 63 | Structure and Optical Properties of Several Organic-Inorganic Hybrids Containing Corner-Sharing Chains of Bismuth Iodide Octahedra. <i>Inorganic Chemistry</i> , 2001, 40, 2096-2104. | 1.9 | 174 |
| 64 | Prospects and performance limitations for CuZnSnSe photovoltaic technology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110432. | 1.6 | 166 |
| 65 | Hydrazine-Processed Ge-Substituted CZTSe Solar Cells. <i>Chemistry of Materials</i> , 2012, 24, 4588-4593. | 3.2 | 165 |
| 66 | The Origin of the Superstructure in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ as Revealed by Scanning Tunneling Microscopy. <i>Science</i> , 1988, 242, 1673-1675. | 6.0 | 164 |
| 67 | Structural and elemental characterization of high efficiency $\text{Cu}_2\text{ZnSnS}_4$ solar cells. <i>Applied Physics Letters</i> , 2011, 98, . | 1.5 | 158 |
| 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 | Observation of a hexatic vortex glass in flux lattices of the high-Tc superconductor $\text{Bi}_2.1\text{Sr}_{1.9}\text{Ca}_{0.9}\text{Cu}_2\text{O}_{8+\delta}$. <i>Physical Review Letters</i> , 1990, 64, 2312-2315. | 2.9 | 152 |
| 70 | 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 |
| 71 | Angle-resolved-photoemission study of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$: Metallicity of the Bi-O plane. <i>Physical Review Letters</i> , 1990, 65, 3056-3059. | 2.9 | 141 |
| 72 | Intercalated Organic-Inorganic Perovskites Stabilized by Fluoroaryl-Aryl Interactions. <i>Inorganic Chemistry</i> , 2002, 41, 2134-2145. | 1.9 | 139 |

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|----|--|------|-----------|
| 73 | Optimization of CIGS-Based PV Device through Antimony Doping. <i>Chemistry of Materials</i> , 2010, 22, 285-287. | 3.2 | 139 |
| 74 | Progress towards marketable earth-abundant chalcogenide solar cells. <i>Thin Solid Films</i> , 2011, 519, 7378-7381. | 0.8 | 137 |
| 75 | Hydrazine-based deposition route for device-quality CIGS films. <i>Thin Solid Films</i> , 2009, 517, 2158-2162. | 0.8 | 135 |
| 76 | 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 |
| 77 | Defects in Cu(In,Ga)Se ₂ Chalcopyrite Semiconductors: A Comparative Study of Material Properties, Defect States, and Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2011, 1, 845-853. | 10.2 | 134 |
| 78 | 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 |
| 79 | Distribution of flux-pinning energies in YBa ₂ Cu ₃ O _{7-δ} and Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} from flux noise. <i>Physical Review Letters</i> , 1990, 64, 72-75. | 2.9 | 126 |
| 80 | Photovoltaic Devices: High-Efficiency Solar Cell with Earth-Abundant Liquid-Processed Absorber (Adv.) <i>Tj ETQq 0 0 rgBT /Overlock</i> | 11.1 | 120 |
| 81 | Impact of Nanoscale Elemental Distribution in High-Performance Kesterite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1402180. | 10.2 | 120 |
| 82 | Fully Air-Bladed High-Efficiency Perovskite Photovoltaics. <i>Joule</i> , 2019, 3, 402-416. | 11.7 | 119 |
| 83 | Low-Voltage Transistor Employing a High-Mobility Spin-Coated Chalcogenide Semiconductor. <i>Advanced Materials</i> , 2005, 17, 1285-1289. | 11.1 | 117 |
| 84 | Translational and bond-orientational order in the vortex lattice of the high-T _c superconductor Bi ₂ Sr _{1.9} Ca _{0.9} Cu ₂ O _{8+δ} . <i>Physical Review Letters</i> , 1991, 66, 2270-2273. | 2.9 | 115 |
| 85 | Superconductivity and magnetism in the high-T _c superconductor YBaCuO. <i>Physical Review Letters</i> , 1987, 58, 1574-1576. | 2.9 | 113 |
| 86 | Earth-Abundant Chalcogenide Photovoltaic Devices with over 5% Efficiency Based on a Cu ₂ BaSn(S,Se) ₄ Absorber. <i>Advanced Materials</i> , 2017, 29, 1606945. | 11.1 | 112 |
| 87 | Magnetic penetration depth in the organic superconductor $\hat{\rho}$ -[BEDT-TTF] ₂ Cu[NCS] ₂ . <i>Physical Review Letters</i> , 1990, 64, 1293-1296. | 2.9 | 107 |
| 88 | Semiconducting Perovskites (2-XC ₆ H ₄ C ₂ H ₄ NH ₃) ₂ SnI ₄ (X = F, Cl, Br): A Steric Interaction between the Organic and Inorganic Layers. <i>Inorganic Chemistry</i> , 2003, 42, 2031-2039. | 1.9 | 104 |
| 89 | 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 |
| 90 | Solution-Processed Metal Chalcogenide Films for p-Type Transistors. <i>Chemistry of Materials</i> , 2006, 18, 587-590. | 3.2 | 102 |

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|-----|--|------|-----------|
| 91 | Electron tunneling and the energy gap in Bi ₂ Sr ₂ CaCu ₂ O _x . Physical Review B, 1989, 39, 801-803. | 1.1 | 98 |
| 92 | Device Performance of Emerging Photovoltaic Materials (Version 1). Advanced Energy Materials, 2021, 11, 2002774. | 10.2 | 93 |
| 93 | Nuclear relaxation behavior of the superconducting cuprates: Bi ₂ Sr ₂ CaCu ₂ O ₈ . Physical Review B, 1991, 44, 7760-7763. | 1.1 | 92 |
| 94 | Minority carrier diffusion length extraction in Cu ₂ ZnSn(S _x Se _{1-x}) ₄ solar cells. Journal of Applied Physics, 2013, 114, 114511. | 1.1 | 91 |
| 95 | Room-temperature fabrication of a delafossite CuCrO ₂ hole transport layer for perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 469-477. | 5.2 | 91 |
| 96 | Sun's <i>VOC</i> characteristics of high performance kesterite solar cells. Journal of Applied Physics, 2014, 116, . | 1.1 | 90 |
| 97 | Effects of Cd Diffusion and Doping in High-Performance Perovskite Solar Cells Using CdS as Electron Transport Layer. Journal of Physical Chemistry C, 2016, 120, 16437-16445. | 1.5 | 89 |
| 98 | Chemical Origin of the Stability Difference between Copper(I)- and Silver(I)-Based Halide Double Perovskites. Angewandte Chemie - International Edition, 2017, 56, 12107-12111. | 7.2 | 89 |
| 99 | Synthesis, Structure, and Thermal Properties of Soluble Hydrazinium Germanium(IV) and Tin(IV) Selenide Salts. Inorganic Chemistry, 2005, 44, 3755-3761. | 1.9 | 87 |
| 100 | I ₂ II ₄ VI ₄ (I = Cu, Ag; II = Sr, Ba; IV = Ge, Sn; VI = S, Se): Chalcogenides for Thin-Film Photovoltaics. Chemistry of Materials, 2017, 29, 7868-7879. | 3.2 | 87 |
| 101 | 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. Advanced Energy Materials, 2016, 6, 1501609. | 10.2 | 84 |
| 102 | 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 |
| 103 | Semi-empirical device model for Cu ₂ ZnSn(S,Se) ₄ solar cells. Applied Physics Letters, 2014, 105, . | 1.5 | 81 |
| 104 | Efficient Generation of Long-Lived Triplet Excitons in 2D Hybrid Perovskite. Advanced Materials, 2017, 29, 1604278. | 11.1 | 81 |
| 105 | Pressure-induced phase transitions and templating effect in three-dimensional organic-inorganic hybrid perovskites. Physical Review B, 2003, 68, . | 1.1 | 80 |
| 106 | Electronic and elemental properties of the Cu ₂ ZnSn(S,Se) ₄ surface and grain boundaries. Applied Physics Letters, 2014, 104, . | 1.5 | 79 |
| 107 | Chemical Origin of the Stability Difference between Copper(I)- and Silver(I)-Based Halide Double Perovskites. Angewandte Chemie, 2017, 129, 12275-12279. | 1.6 | 79 |
| 108 | Point-contact electron tunneling into the high-T _c superconductor Y-Ba-Cu-O. Physical Review B, 1987, 35, 8850-8852. | 1.1 | 78 |

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|-----|--|------|-----------|
| 109 | Structural descriptor for enhanced spin-splitting in 2D hybrid perovskites. Nature Communications, 2021, 12, 4982. | 5.8 | 78 |
| 110 | Introduction: Perovskites. Chemical Reviews, 2019, 119, 3033-3035. | 23.0 | 76 |
| 111 | SnI ₄ -Based Hybrid Perovskites Templated by Multiple Organic Cations: Combining Organic Functionalities through Noncovalent Interactions. Chemistry of Materials, 2003, 15, 3632-3637. | 3.2 | 75 |
| 112 | Efficient and Stable Pt/TiO ₂ /CdS/Cu ₂ BaSn(S,Se) ₄ Photocathode for Water Electrolysis Applications. ACS Energy Letters, 2018, 3, 177-183. | 8.8 | 75 |
| 113 | Flux-lattice melting, anisotropy, and the role of interlayer coupling in Bi-Sr-Ca-Cu-O single crystals. Physical Review B, 1991, 44, 7737-7740. | 1.1 | 74 |
| 114 | Antimony assisted low-temperature processing of CuIn _{1-x} Ga _x Se ₂ solar cells. Thin Solid Films, 2010, 519, 852-856. | 0.8 | 74 |
| 115 | Preparation and Properties of (C ₄ H ₉ NH ₃) ₂ EuI ₄ : A Luminescent Organic-Inorganic Perovskite with a Divalent Rare-Earth Metal Halide Framework. Chemistry of Materials, 1997, 9, 2990-2995. | 3.2 | 73 |
| 116 | Solvent properties of hydrazine in the preparation of metal chalcogenide bulk materials and films. Dalton Transactions, 2009, , 6078. | 1.6 | 73 |
| 117 | Evidence for k-dependent, in-plane anisotropy of the superconducting gap in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Physical Review B, 1992, 46, 11830-11834. | 1.1 | 72 |
| 118 | [CH ₃ (CH ₂) ₁₁ NH ₃] ₃ SnI ₃ : A Hybrid Semiconductor with MoO ₃ -type Tin(II) Iodide Layers. Inorganic Chemistry, 2003, 42, 6589-6591. | 1.9 | 72 |
| 119 | Viability of Lead-Free Perovskites with Mixed Chalcogen and Halogen Anions for Photovoltaic Applications. Journal of Physical Chemistry C, 2016, 120, 6435-6441. | 1.5 | 72 |
| 120 | Electron-tunneling studies of thin films of high-T _c superconducting La-Sr-Cu-O. Physical Review B, 1987, 35, 7228-7231. | 1.1 | 68 |
| 121 | [(CH ₃) ₃ NCH ₂ CH ₂ NH ₃] ₄ SnI ₄ : A Layered Perovskite with Quaternary/Primary Ammonium Dications and Short Interlayer Iodine-Iodine Contacts. Inorganic Chemistry, 2003, 42, 1400-1402. | 1.9 | 67 |
| 122 | Melt Processing of Hybrid Organic-Inorganic Lead Iodide Layered Perovskites. Chemistry of Materials, 2017, 29, 6200-6204. | 3.2 | 67 |
| 123 | Carrier-resolved photo-Hall effect. Nature, 2019, 575, 151-155. | 13.7 | 66 |
| 124 | Device Performance of Emerging Photovoltaic Materials (Version 2). Advanced Energy Materials, 2021, 11, . | 10.2 | 66 |
| 125 | Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. Joule, 2022, 6, 8-15. | 11.7 | 66 |
| 126 | Magnetic penetration depth and flux dynamics in single-crystal Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Physical Review Letters, 1991, 67, 3152-3155. | 2.9 | 65 |

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|-----|--|------|-----------|
| 127 | Synthesis and Characterization of $[\text{NH}_2\text{C}(\text{I})\text{NH}_2]_2\text{ASnI}_5$ with A = Iodoformamidinium or Formamidinium:â€™% The Chemistry of Cyanamide and Tin(II) Iodide in Concentrated Aqueous Hydriodic Acid Solutions. Inorganic Chemistry, 1998, 37, 321-327. | 1.9 | 65 |
| 128 | Crystal Structure of AgBi_2I_7 Thin Films. Journal of Physical Chemistry Letters, 2016, 7, 3903-3907. | 2.1 | 64 |
| 129 | Dual-source evaporation of silver bismuth iodide films for planar junction solar cells. Journal of Materials Chemistry A, 2019, 7, 2095-2105. | 5.2 | 63 |
| 130 | Is Cs_2TiBr_6 a promising Pb-free perovskite for solar energy applications?. Journal of Materials Chemistry A, 2020, 8, 4049-4054. | 5.2 | 62 |
| 131 | Novel Strategy for Diameter-Selective Separation and Functionalization of Single-Wall Carbon Nanotubes. Nano Letters, 2008, 8, 469-472. | 4.5 | 60 |
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