

Susan Schorr

List of Publications by Year in descending order

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205
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88630
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213
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213
docs citations

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times ranked

4483
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Kesterites—“a challenging material for solar cells. Progress in Photovoltaics: Research and Applications, 2012, 20, 512-519. | 8.1 | 532 |
| 2 | The crystal structure of kesterite type compounds: A neutron and X-ray diffraction study. Solar Energy Materials and Solar Cells, 2011, 95, 1482-1488. | 6.2 | 377 |
| 3 | A neutron diffraction study of the stannite-kesterite solid solution series. European Journal of Mineralogy, 2007, 19, 65-73. | 1.3 | 289 |
| 4 | $\text{Cu}_{2\text{x}}\text{ZnSnS}_4$ thin film solar cells by fast coevaporation. Progress in Photovoltaics: Research and Applications, 2011, 19, 93-96. | 8.1 | 270 |
| 5 | Vibrational properties of stannite and kesterite type compounds: Raman scattering analysis of $\text{Cu}_2(\text{Fe},\text{Zn})\text{SnS}_4$. Journal of Alloys and Compounds, 2012, 539, 190-194. | 5.5 | 201 |
| 6 | Structural aspects of adamantine like multinary chalcogenides. Thin Solid Films, 2007, 515, 5985-5991. | 1.8 | 155 |
| 7 | Multi-stage evaporation of $\text{Cu}_2\text{ZnSnS}_4$ thin films. Thin Solid Films, 2009, 517, 2524-2526. | 1.8 | 142 |
| 8 | Raman scattering and disorder effect in $\text{Cu}_{2\text{x}}\text{ZnSnS}_4$. Physica Status Solidi - Rapid Research Letters, 2013, 7, 258-261. | 2.4 | 136 |
| 9 | Determination of secondary phases in kesterite $\text{Cu}_2\text{ZnSnS}_4$ thin films by x-ray absorption near edge structure analysis. Applied Physics Letters, 2011, 99, . | 3.3 | 109 |
| 10 | Discrimination and detection limits of secondary phases in $\text{Cu}_2\text{ZnSnS}_4$ using X-ray diffraction and Raman spectroscopy. Thin Solid Films, 2014, 569, 113-123. | 1.8 | 98 |
| 11 | Free-to-bound recombination in near stoichiometric $\text{Cu}_{2\text{x}}\text{ZnSnS}_4$ single crystals. Physical Review B, 2012, 86, . | 3.2 | 97 |
| 12 | Point defects, compositional fluctuations, and secondary phases in non-stoichiometric kesterites. JPhys Energy, 2020, 2, 012002. | 5.3 | 92 |
| 13 | Existence of off-stoichiometric single phase kesterite. Journal of Alloys and Compounds, 2016, 657, 408-413. | 5.5 | 88 |
| 14 | Depth profiling of $\text{Cu}(\text{In},\text{Ga})\text{Se}_2$ thin films grown at low temperatures. Solar Energy Materials and Solar Cells, 2009, 93, 859-863. | 6.2 | 81 |
| 15 | Secondary phases and their influence on the composition of the kesterite phase in CZTS and CZTSe thin films. Physical Chemistry Chemical Physics, 2016, 18, 15988-15994. | 2.8 | 77 |
| 16 | The phase diagram of a mixed halide (Br, I) hybrid perovskite obtained by synchrotron X-ray diffraction. RSC Advances, 2019, 9, 11151-11159. | 3.6 | 76 |
| 17 | In-situ investigation of the structural phase transition in kesterite. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1054-1058. | 1.8 | 73 |
| 18 | Comprehensive Comparison of Various Techniques for the Analysis of Elemental Distributions in Thin Films. Microscopy and Microanalysis, 2011, 17, 728-751. | 0.4 | 72 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Structure reinvestigation of $\hat{I}\pm$, \hat{I}^2 - and \hat{I}^3 -In ₂ S ₃ . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 410-415. | 1.1 | 72 |
| 20 | Raman scattering quantitative analysis of the anion chemical composition in kesterite Cu ₂ ZnSn(S _x Se _{1-x}) ₄ solid solutions. Journal of Alloys and Compounds, 2015, 628, 464-470. | 5.5 | 69 |
| 21 | Optically induced structural transformation in disordered kesterite Cu ₂ ZnSnS ₄ . JETP Letters, 2013, 98, 255-258. | 1.4 | 66 |
| 22 | In-situ XRD on formation reactions of Cu ₂ ZnSnS ₄ thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1245-1248. | 0.8 | 65 |
| 23 | Multiwavelength excitation Raman scattering of Cu ₂ ZnSn(S _x Se _{1-x}) ₄ (0.0% \leq x \leq 1) polycrystalline thin films: Vibrational properties of sulfoselenide solid solutions. Applied Physics Letters, 2014, 105, . | 3.3 | 64 |
| 24 | Grain-size distributions and grain boundaries of chalcopyrite-type thin films. Journal of Applied Crystallography, 2007, 40, 841-848. | 4.5 | 62 |
| 25 | Systematic compositional changes and their influence on lattice and optoelectronic properties of Cu ₂ ZnSnSe ₄ kesterite solar cells. Solar Energy Materials and Solar Cells, 2016, 144, 579-585. | 6.2 | 62 |
| 26 | Infrared Spectroscopic Study of Vibrational Modes across the Orthorhombic-Tetragonal Phase Transition in Methylammonium Lead Halide Single Crystals. Journal of Physical Chemistry C, 2018, 122, 5227-5237. | 3.1 | 61 |
| 27 | Optical constants of Cu ₂ ZnGeS ₄ bulk crystals. Journal of Applied Physics, 2010, 108, . | 2.5 | 60 |
| 28 | The Role of Bulk and Interface Recombination in High-Efficiency Low-Dimensional Perovskite Solar Cells. Advanced Materials, 2019, 31, e1901090. | 21.0 | 59 |
| 29 | In-situ investigation of the kesterite formation from binary and ternary sulphides. Thin Solid Films, 2009, 517, 2461-2464. | 1.8 | 57 |
| 30 | Comprehensive insights into point defect and defect cluster formation in CuInSe ₂ . Applied Physics Letters, 2011, 98, . | 3.3 | 56 |
| 31 | Impact of the Ga concentration on the microstructure of CuIn _{1-x} Ga _x Se ₂ . Physica Status Solidi - Rapid Research Letters, 2008, 2, 135-137. | 2.4 | 53 |
| 32 | The effect of NaF precursors on low temperature growth of CIGS thin film solar cells on polyimide substrates. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1049-1053. | 1.8 | 53 |
| 33 | Quality and stability of compound indium sulphide as source material for buffer layers in Cu(In,Ga)Se ₂ solar cells. Solar Energy Materials and Solar Cells, 2009, 93, 148-152. | 6.2 | 50 |
| 34 | BaZrS ₃ Chalcogenide Perovskite Thin Films by H ₂ S Sulfurization of Oxide Precursors. Journal of Physical Chemistry Letters, 2021, 12, 2148-2153. | 4.6 | 46 |
| 35 | What Defines a Perovskite?. Advanced Energy Materials, 2018, 8, 1802366. | 19.5 | 44 |
| 36 | Spectroscopic ellipsometry study of Cu ₂ ZnGeSe ₄ and Cu ₂ ZnSiSe ₄ poly-crystals. Materials Chemistry and Physics, 2013, 141, 58-62. | 4.0 | 43 |

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|----|--|------|-----------|
| 37 | Role of S and Se atoms on the microstructural properties of kesterite Cu ₂ ZnSn(S _x Se _{1-x}) ₄ thin film solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8692-8700. | 2.8 | 43 |
| 38 | Structure and phase relations of the Zn _{2x} (CuIn) _{1-x} S ₂ solid solution series. <i>Journal of Alloys and Compounds</i> , 2005, 396, 202-207. | 5.5 | 42 |
| 39 | Electronic band gap of Zn _{2x} (CuIn) _{1-x} X ₂ solid solution series (X=S, Se, Te). <i>Journal of Alloys and Compounds</i> , 2006, 414, 26-30. | 5.5 | 42 |
| 40 | Synthesis of Cu ₂ ZnxSnySe _{1+x+2y} nanocrystals with wurtzite-derived structure. <i>RSC Advances</i> , 2012, 2, 9894. | 3.6 | 40 |
| 41 | Temperature dependency of Cu/Zn ordering in CZTSe kesterites determined by anomalous diffraction. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 1890-1897. | 1.5 | 39 |
| 42 | Intrinsic point defects in off-stoichiometric Cu ₂ ZnSnSe ₄ : A neutron diffraction study. <i>Journal of Applied Physics</i> , 2018, 123, . | 2.5 | 39 |
| 43 | A mechanochemical route to single phase Cu ₂ ZnSnS ₄ powder. <i>Journal of Alloys and Compounds</i> , 2016, 670, 289-296. | 5.5 | 37 |
| 44 | Role of the Iodide-Methylammonium Interaction in the Ferroelectricity of CH ₃ NH ₃ PbI ₃ . <i>Angewandte Chemie - International Edition</i> , 2020, 59, 424-428. | 13.8 | 37 |
| 45 | Atomic-scale structure and band-gap bowing in Cu(In,Ga)Se ₂ . <i>Physical Review B</i> , 2012, 85, . | 3.2 | 36 |
| 46 | Cu-Zn disorder in Cu ₂ ZnGeSe ₄ : A complementary neutron diffraction and Raman spectroscopy study. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 99, 100-104. | 4.0 | 33 |
| 47 | Cu ₂ ZnSnS ₄ thin film solar cells grown by fast thermal evaporation and thermal treatment. <i>Solar Energy</i> , 2017, 141, 236-241. | 6.1 | 32 |
| 48 | Cu in In ₂ S ₃ : interdiffusion phenomena analysed by high kinetic energy X-ray photoelectron spectroscopy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1059-1062. | 1.8 | 31 |
| 49 | Structure of Cu ₂ Sn ₃ probed by soft x-ray emission and absorption spectroscopy. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 31 |
| 50 | Analysis of grain orientation and defects in Sb ₂ Se ₃ solar cells fabricated by close-spaced sublimation. <i>Solar Energy</i> , 2021, 225, 494-500. | 6.1 | 31 |
| 51 | Phonon confinement and strain in CuInS ₂ . <i>Applied Physics Letters</i> , 2008, 92, 101922. | 3.3 | 30 |
| 52 | Structural characterization of off-stoichiometric kesterite-type Cu ₂ ZnGeSe ₄ compound semiconductors: from cation distribution to intrinsic point defect density. <i>CrystEngComm</i> , 2018, 20, 1491-1498. | 2.6 | 30 |
| 53 | Structural and chemical analyses of sputtered In S buffer layers in Cu(In,Ga)Se ₂ thin-film solar cells. <i>Thin Solid Films</i> , 2009, 517, 2792-2798. | 1.8 | 29 |
| 54 | Feedback mechanism for the stability of the band gap of CuInSe ₂ . <i>Physical Review B</i> , 2012, 86, . | 3.2 | 29 |

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|----|--|-----|-----------|
| 55 | In-situ investigation of the temperature dependent structural phase transition in CuInSe ₂ by synchrotron radiation. <i>Crystal Research and Technology</i> , 2006, 41, 450-457. | 1.3 | 27 |
| 56 | Facile Bulk Synthesis of ϵ -Cubic SnS. <i>Inorganic Chemistry</i> , 2017, 56, 11455-11457. | 4.0 | 27 |
| 57 | Spectroscopic ellipsometry study of Cu ₂ ZnSnSe ₄ bulk crystals. <i>Applied Physics Letters</i> , 2014, 105, 061909. | 3.3 | 26 |
| 58 | Crystal structure and cation distribution in the solid solution series 2(ZnX)â€“CuInX ₂ (X=S, Se, Te). <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 1961-1965. | 4.0 | 24 |
| 59 | Structure and phase relations in the 2(CuInS ₂)â€“Cu ₂ ZnSnS ₄ solid solution system. <i>Thin Solid Films</i> , 2009, 517, 2508-2510. | 1.8 | 24 |
| 60 | Properties of Cu(In,Ga)(S,Se) ₂ thin films prepared by selenization/sulfurization of metallic alloys. <i>Thin Solid Films</i> , 2007, 515, 5848-5851. | 1.8 | 23 |
| 61 | Cu ₂ ZnSnS ₄ thin films grown by spray pyrolysis: characterization by Raman spectroscopy and X-ray diffraction. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1082-1085. | 0.8 | 23 |
| 62 | Off-stoichiometric CZTS: Neutron scattering investigations on mechanochemically synthesized powders. <i>Journal of Alloys and Compounds</i> , 2016, 689, 271-277. | 5.5 | 23 |
| 63 | The two-phase region in 2(ZnSe) _x (CuInSe ₂) _{1-x} alloys and structural relation between the tetragonal and cubic phases. <i>Journal of Solid State Chemistry</i> , 2005, 178, 3631-3638. | 2.9 | 21 |
| 64 | Energy spectrum of near-edge holes and conduction mechanisms in Cu ₂ ZnSiSe ₄ single crystals. <i>Journal of Alloys and Compounds</i> , 2013, 580, 481-486. | 5.5 | 21 |
| 65 | Raman spectra of wurtzstannite quaternary compounds. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1075-1078. | 0.8 | 20 |
| 66 | Influence of Chloride Substitution on the Rotational Dynamics of Methylammonium in MAPbI ₃ \times Cl _x Perovskites. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11436-11446. | 3.1 | 20 |
| 67 | The influence of deuteration on the crystal structure of hybrid halide perovskites: a temperature-dependent neutron diffraction study of FAPbBr ₃ . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 267-274. | 1.1 | 20 |
| 68 | The multiwavelength cold neutron time-of-flight spectrometer project IN500 at LANSCE. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 128-129. | 2.7 | 19 |
| 69 | Phase relationships in the pseudo-binary 2(ZnTe)-CuInTe ₂ system. <i>Journal of Solid State Chemistry</i> , 2005, 178, 3476-3484. | 2.9 | 19 |
| 70 | Some are different from others: high temperature structural phase transitions in ternary chalcopyrites. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2610-2613. | 0.8 | 19 |
| 71 | Single crystal X-ray structure investigation of Cu ₂ ZnSnSe ₄ . <i>Surface Engineering and Applied Electrochemistry</i> , 2013, 49, 423-426. | 0.8 | 19 |
| 72 | Structural characterisation of Cu ₂ O ₄ Zn _{0.91} Sn _{1.05} S _{2.08} Se _{1.92} . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 588-591. | 0.8 | 19 |

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|----|--|-----|-----------|
| 73 | Discrepancy between integral and local composition in off-stoichiometric Cu ₂ ZnSnSe ₄ kesterites: A pitfall for classification. <i>Applied Physics Letters</i> , 2017, 110, . | 3.3 | 19 |
| 74 | Mechanochemical synthesis of the lead-free double perovskite Cs ₂ [AgIn]Br ₆ and its optical properties. <i>JPhys Energy</i> , 2019, 1, 025003. | 5.3 | 19 |
| 75 | Long-range structure of Cu(InGa) ₃ Se ₅ : A complementary neutron and anomalous x-ray diffraction study. <i>Journal of Applied Physics</i> , 2011, 109, 013518. | 2.5 | 18 |
| 76 | Local structure in Cu ₂ ZnSnS ₄ studied by the XAFS method. <i>Solid State Communications</i> , 2014, 177, 54-56. | 1.9 | 18 |
| 77 | Interaction between cation orientation, octahedra tilting and hydrogen bonding in methylammonium lead triiodide. <i>Crystal Research and Technology</i> , 2016, 51, 534-540. | 1.3 | 17 |
| 78 | Twinning in MAPbI ₃ at room temperature uncovered through Laue neutron diffraction. <i>Scientific Reports</i> , 2020, 10, 16613. | 3.3 | 17 |
| 79 | Extension of the two-phase field in the system 2(ZnS)x(CuInS ₂) _{1-x} and structural relationship between the tetragonal and cubic phase. <i>Journal of Crystal Growth</i> , 2005, 283, 356-366. | 1.5 | 16 |
| 80 | XAFS study of kesterite, kuramite and stannite type alloys. <i>Journal of Alloys and Compounds</i> , 2010, 492, 35-38. | 5.5 | 16 |
| 81 | Shocked quartz in Sahara fulgurite. <i>European Journal of Mineralogy</i> , 2012, 24, 499-507. | 1.3 | 16 |
| 82 | Cationic point defects in CuGaSe ₂ from a structural perspective. <i>Applied Physics Letters</i> , 2012, 101, 101907. | 3.3 | 16 |
| 83 | Atomic-scale structure, cation distribution, and bandgap bowing in Cu(In,Ga)S ₂ and Cu(In,Ga)Se ₂ . <i>Applied Physics Letters</i> , 2013, 103, . | 3.3 | 16 |
| 84 | Temperature dependent transient surface photovoltage spectroscopy of a Cu _{1.95} Zn _{1.1} Sn _{0.96} Se ₄ kesterite single phase powder. <i>Applied Physics Letters</i> , 2017, 110, . | 3.3 | 15 |
| 85 | Synthesis, theoretical and experimental characterisation of thin film Cu ₂ Sn _{1-x} Ge _x S ₃ ternary alloys (x=) T _j ETQq1 1 0.784314 ₁₅ rgBT /Ov | | |
| 86 | Short-range versus long-range structure in Cu(In,Ga)Se ₂ , Cu(In,Ga)3Se ₅ , and Cu(In,Ga)5Se ₈ . <i>Journal of Alloys and Compounds</i> , 2019, 774, 803-812. | 5.5 | 15 |
| 87 | Hybrid Perovskite at Full Tilt: Structure and Symmetry Relations of the Incommensurately Modulated Phase of Methylammonium Lead Bromide, MAPbBr ₃ . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2358-2362. | 4.6 | 15 |
| 88 | Investigation of structural anomaly and metal ordering in the solid solution 2ZnS-CuInS ₂ by neutron diffraction. <i>Physica B: Condensed Matter</i> , 2004, 350, E411-E414. | 2.7 | 14 |
| 89 | Photoluminescence characterization of Cu ₂ ZnGeS ₄ single crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1079-1081. | 0.8 | 14 |
| 90 | X-ray diffraction investigation on Cu ₂ ZnSiSe ₄ single and polycrystalline crystals. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2015, 230, 507-511. | 0.8 | 14 |

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| 91 | Formation of Cu ₂ ZnSnS ₄ and Cu ₂ ZnSnS ₄ -CuInS ₂ Thin Films Investigated by In-Situ Energy Dispersive X-Ray Diffraction. Materials Research Society Symposia Proceedings, 2007, 1012, 1. | 0.1 | 13 |
| 92 | Exciton spectra and energy band structure of Cu ₂ ZnSiSe ₄ . Journal of Alloys and Compounds, 2014, 587, 393-397. | 5.5 | 12 |
| 93 | Microstrain distribution mapping on CuInSe ₂ thin films by means of electron backscatter diffraction, X-ray diffraction, and Raman microspectroscopy. Ultramicroscopy, 2016, 169, 89-97. | 1.9 | 12 |
| 94 | Structural characterization of Cu ₂ SnS ₃ and Cu ₂ (Sn,Ge)S ₃ compounds. Journal of Alloys and Compounds, 2016, 682, 489-494. | 5.5 | 12 |
| 95 | Effect of Ag incorporation on structure and optoelectronic properties of (Ag _{1-x} Cu _x) ₂ ZnSnSe ₄ solid solutions. Physical Review Materials, 2020, 4, . | 2.4 | 12 |
| 96 | Crystal growth of argyrodite-type phases Cu _{8-x} Ge _{6-x} I _x and Cu _{8-x} Ge _{6-x} I _x (0<x<0.8). Journal of Crystal Growth, 2008, 310, 2215-2221. | 1.5 | 11 |
| 97 | A structural study on the CuGaSe ₂ related copper-poor materials CuGa ₃ Se ₅ and CuGa ₅ Se ₈ : thin-film vs. bulk material. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1009-1012. | 1.8 | 11 |
| 98 | Growth of magnesio-aluminate spinel in thin-film geometry: in situ monitoring using synchrotron X-ray diffraction and thermodynamic model. Physics and Chemistry of Minerals, 2014, 41, 681-693. | 0.8 | 11 |
| 99 | Mechanisms of conductivity and energy spectrum of near-edge holes in Cu ₂ ZnSnS ₄ powder samples. Journal of Alloys and Compounds, 2017, 703, 315-320. | 5.5 | 11 |
| 100 | Crystal structure and anti-site boundary defect characterisation of Cu ₂ ZnSnSe ₄ . Journal of Materials Chemistry A, 2018, 6, 189-197. | 10.3 | 11 |
| 101 | Determination of the miscibility gap in the solid solutions series of methylammonium lead iodide/chloride. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2018, 74, 445-449. | 1.1 | 11 |
| 102 | Advanced characterization and in-situ growth monitoring of Cu(In,Ga)Se ₂ thin films and solar cells. Solar Energy, 2018, 170, 102-112. | 6.1 | 11 |
| 103 | On the Germanium Incorporation in Cu ₂ ZnSnSe ₄ Kesterite Solar Cells Boosting Their Efficiency. ACS Applied Energy Materials, 2020, 3, 558-564. | 5.1 | 11 |
| 104 | Phonon Spectra of Chain TlSe and TlInSe ₂ : Density Functional Theory Based Study. Japanese Journal of Applied Physics, 2008, 47, 8193. | 1.5 | 10 |
| 105 | CdTe thin film solar cells prepared by a low-temperature deposition method. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 730-733. | 1.8 | 10 |
| 106 | Phases in copper-gallium-metal sulfide films (metal=titanium, iron, or tin). Thin Solid Films, 2011, 519, 7284-7287. | 1.8 | 10 |
| 107 | The complex material properties of chalcopyrite and kesterite thin-film solar cell absorbers tackled by synchrotron-based analytics. Progress in Photovoltaics: Research and Applications, 2012, 20, 557-567. | 8.1 | 10 |
| 108 | The influence of sodium on the point defect characteristics in off stoichiometric CuInSe ₂ . Journal of Physics and Chemistry of Solids, 2016, 98, 309-315. | 4.0 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Quantitative anomalous powder diffraction analysis of cation disorder in kesterite semiconductors. Powder Diffraction, 2016, 31, 168-175. | 0.2 | 10 |
| 110 | On the Nitridation of Zn ₂ GeO ₄ . Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800885. | 1.8 | 10 |
| 111 | Cu/Zn disorder in stoichiometric Cu ₂ ZnSn(S _{1-x} Se _x) ₄ semiconductors: A complementary neutron and anomalous X-ray diffraction study. Journal of Alloys and Compounds, 2020, 846, 156304. | 5.5 | 10 |
| 112 | Symmetry relations in wurtzite nitrides and oxide nitrides and the curious case of $\langle i \rangle Pmc \langle /i \rangle 2 \langle sub \rangle 1 \langle /sub \rangle$. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 208-216. | 0.1 | 10 |
| 113 | Optical absorption and photoluminescence of CuAlTe ₂ . Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2626-2629. | 0.8 | 9 |
| 114 | Pentanary chalcopyrite compounds without tetragonal deformation in the heptanary system Cu(Al,Ga,In)(S,Se,Te) ₂ . Solar Energy Materials and Solar Cells, 2007, 91, 44-46. | 6.2 | 9 |
| 115 | Local structure in (MnS) _{2x} (CuInS ₂) _{1-x} alloys. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2746-2750. | 1.8 | 8 |
| 116 | AgGaSe ₂ thin films grown by chemical close-spaced vapor transport for photovoltaic applications: structural, compositional and optical properties. Journal of Physics Condensed Matter, 2012, 24, 175801. | 1.8 | 8 |
| 117 | Structure refinements of members in the brownmillerite solid solution series Ca ₂ Al _x (Fe _{0.5} Mn _{0.5}) _{2-x} O _{5+1'} with 1/2‰x‰4/3. Journal of Solid State Chemistry, 2013, 197, 420-428. | 2.9 | 8 |
| 118 | Composition-dependent nanostructure of Cu(In,Ga)Se ₂ powders and thin films. Thin Solid Films, 2015, 582, 356-360. | 1.8 | 8 |
| 119 | Thickness-dependent structural parameters of kesterite Cu ₂ ZnSnSe ₄ thin films for solar cell absorbers. Materials Letters, 2018, 225, 82-84. | 2.6 | 8 |
| 120 | An in-depth investigation on the grain growth and the formation of secondary phases of ultrasonic-sprayed Cu ₂ ZnSnS ₄ based thin films assisted by Na crystallization catalyst. Solar Energy, 2018, 176, 277-286. | 6.1 | 8 |
| 121 | Thin films of (Ag _x Cu _{1-x}) ₂ ZnSn(S,Se) ₄ (x=0.05-0.20) prepared by spray pyrolysis. Thin Solid Films, 2019, 690, 137532. | 1.8 | 8 |
| 122 | Local structure of Mn dopants in CuAlS ₂ and CuGaS ₂ . Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2428-2436. | 1.8 | 7 |
| 123 | The HZB neutron Laue diffractometer: From E11 to FALCON. Neutron News, 2014, 25, 27-29. | 0.2 | 7 |
| 124 | Magnetic properties investigations of Mn substituted ABX ₂ chalcocrites. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2783-2787. | 1.8 | 6 |
| 125 | Where the atoms are: Cation disorder and anion displacement in D _{II} X _{VII} Al _{III} X _{VI} semiconductors. Physica B: Condensed Matter, 2006, 385-386, 571-573. | 2.7 | 6 |
| 126 | Transmittance Spectra of Cu ₂ ZnSnS ₄ Thin Films. Journal of Electronic Materials, 2015, 44, 3283-3287. | 2.2 | 6 |

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|-----|--|-----|-----------|
| 127 | On the ground state crystal structure of $(\text{Ag}0.5\text{Cu}0.5)2\text{ZnSnSe}_4$. <i>Thin Solid Films</i> , 2021, 738, 138957. | 1.8 | 6 |
| 128 | Comparative Studies of the Structure and Microstructure of $\text{Zn}_{2x}\text{Cu}_{1-x}\text{X}_2\text{Se}_8$ Semiconductors ($\text{B}^{\text{III}}=\text{Ga,In}$; $\text{X}=\text{S,Se,Te}$). <i>Materials Research Society Symposia Proceedings</i> , 2007, 1012, 1. | 0.1 | 5 |
| 129 | Characterisation of $\text{Cu}(\text{In}_{1-x}\text{Ga}_x)_5\text{Se}_8$ by spectroscopic ellipsometry. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 1078-1081. | 0.8 | 5 |
| 130 | Neutrons and Photons in Materials Research for Thin Film Solar Cells. <i>Advanced Engineering Materials</i> , 2011, 13, 737-741. | 3.5 | 5 |
| 131 | Excitonic and band-band transitions of $\text{Cu}_2\text{ZnSiS}_4$ determined from reflectivity spectra. <i>Solid State Communications</i> , 2014, 190, 44-48. | 1.9 | 5 |
| 132 | Effects of annealing on elemental composition and quality of CZTSSe thin films obtained by spray pyrolysis. <i>Surface Engineering and Applied Electrochemistry</i> , 2016, 52, 509-514. | 0.8 | 5 |
| 133 | The use of anomalous x-ray diffraction as a tool for the analysis of compound semiconductors. <i>Semiconductor Science and Technology</i> , 2017, 32, 103002. | 2.0 | 5 |
| 134 | $\text{Cu}_{2-x}\text{ZnSnSe}_4$: How Far Does Off-stoichiometry Go?. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700957. | 1.8 | 5 |
| 135 | $\text{Cu}_2\text{ZnGe}(\text{S}_{1-x}\text{Se}_x)_4$ – The challenge to synthesize single phase material. <i>Thin Solid Films</i> , 2019, 669, 625-628. | 1.8 | 5 |
| 136 | Climbing Jacobâ€™s ladder: A density functional theory case study for $\text{Ag}_{2-x}\text{ZnSnSe}_4$ and $\text{Cu}_{2-x}\text{ZnSnSe}_4$. <i>JPhys Energy</i> , 2021, 3, 015002. | 5.3 | 5 |
| 137 | Cation distribution in $\text{Cu}_{2-x}\text{ZnSnSe}_4$, $\text{Cu}_{2-x}\text{FeSnS}_4$ and $\text{Cu}_{2-x}\text{ZnSiSe}_4$ by multiple-edge anomalous diffraction. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 1027-1035. | 1.1 | 5 |
| 138 | Temperature-Dependent EXAFS Measurements of the Pb L3-Edge Allow Quantification of the Anharmonicity of the Leadâ€“Halide Bond of Chlorine-Substituted Methylammonium (MA) Lead Triiodide. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5388-5402. | 3.1 | 5 |
| 139 | The kesteriteâ€“stannite structural transition as a way to avoid Cu/Zn disorder in kesterites: the exemplary case of the $\text{Cu}_{2-x}(\text{Zn,Mn})\text{SnSe}_4$. <i>Faraday Discussions</i> , 0, 239, 51-69. | 3.2 | 5 |
| 140 | Investigation of the solid solution series $2(\text{MnX})-\text{CuInX}_2$ ($\text{X}=\text{S, Se}$). <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 1966-1969. | 4.0 | 4 |
| 141 | Low-temperature thermal expansion in sphalerite-type and chalcopyrite-type multinary semiconductors. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 104245. | 1.8 | 4 |
| 142 | New Structural Investigations in the $\text{Cu}_{2-x}\text{Se}(\text{S})-\text{In}_{2-x}\text{Se}_3(\text{S})/\text{Cu}_{2-x}\text{Se}(\text{S})-\text{Ga}_{2-x}\text{Se}_3(\text{S})$ Phase Diagrams. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1165, 1. | 4 | 4 |
| 143 | Preparation and properties of $\text{In/pâ€¢Cu}(\text{In}_{1-x}\text{Ga}_x)(\text{S}_{1-y}\text{Se}_y)$ surfaceâ€“barrier structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 1278-1281. | 0.8 | 4 |
| 144 | MÃ¶ssbauer study of isomorphous substitutions in $\text{Cu}_2\text{Fe}_{1-x}\text{Cu}_x\text{SnS}_4$ and $\text{Cu}_2\text{Fe}_{1-x}\text{Zn}_x\text{SnS}_4$ series. <i>Journal of Physics: Conference Series</i> , 2010, 217, 012038. | 0.4 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Crystal structure and physical properties of YbCuZnSb2. Surface Engineering and Applied Electrochemistry, 2012, 48, 375-379. | 0.8 | 4 |
| 146 | Characterization of Cu ₂ SnSe ₃ by spectroscopic ellipsometry. Thin Solid Films, 2013, 535, 384-386. | 1.8 | 4 |
| 147 | Crystallographic study of phases present in CuInSe ₂ absorber layers produced by laser annealing co-electrodeposited precursors. Proceedings of SPIE, 2013, ,. | 0.8 | 4 |
| 148 | Ferromagnetic ordering in La _{0.7} Sr _{0.3} Mn _{3+0.85Nb5+0.15O3} manganite. Powder Diffraction, 2015, 30, S97-S100. | 0.2 | 4 |
| 149 | High pressure induced spin state crossover in Sr ₂ CaYCo ₄ O _{10.5} . Journal of Physics Condensed Matter, 2015, 27, 046005. | 1.8 | 4 |
| 150 | Atomic Scale Structure of (Ag,Cu)ZnSnSe ₄ and Cu ₂ Zn(Sn,Ge)Se ₄ Kesterite Thin Films. Frontiers in Energy Research, 2021, 9, . | 2.3 | 4 |
| 151 | Preparation of BaBi _{1/2} Sb _{1/2} O ₃ from Ba(COO) ₂ ·0.5H ₂ O and Sb(COO) ₂ (OH) oxalates and Bi ₂ O ₃ oxide. Journal of Crystal Growth, 2005, 277, 205-209. | 1.5 | 3 |
| 152 | Growth and optical properties of CuAlTe ₂ . Physica Status Solidi (B): Basic Research, 2006, 243, R57-R59. | 1.5 | 3 |
| 153 | Mössbauer Investigations of Cu _[3-x] Fe _[x] SnS _[4] and Cu _[2] Fe _[1-x] Zn _[x] SnS _[4] Systems. , 2008, ,. | | 3 |
| 154 | Aspects for the optimization of CIGSe growth at low temperatures for application in thin film solar cells on polyimide foil. , 2009, ,. | | 3 |
| 155 | Structural Properties of Chalcopyrite-related 1:3:5 Copper-poor Compounds and their Influence on Thin-film Devices. Materials Research Society Symposia Proceedings, 2009, 1165, 1. | 0.1 | 3 |
| 156 | Debye temperatures and Grueneisen parameters of chain TlSe and TlInSe ₂ . Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 997-1000. | 0.8 | 3 |
| 157 | Magnetic ordering in manganites doped by Ti and Al. Ceramics International, 2017, 43, 187-191. | 4.8 | 3 |
| 158 | Interplay of Performance-Limiting Nanoscale Features in Cu ₂ ZnSn(S,Se) ₄ Solar Cells. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000456. | 1.8 | 3 |
| 159 | Atomic scale structure and its impact on the band gap energy for Cu ₂ Zn(Sn,Ge)Se ₄ kesterite alloys. JPhys Energy, 2020, 2, 035004. | 5.3 | 3 |
| 160 | A thorough investigation of the crystal structure of willemite-type Zn ₂ GeO ₄ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, ,. | 1.2 | 3 |
| 161 | Structural properties of 2(ZnSe) _x (CuInSe ₂) _{1-x} crystals and thin films in the two-phase region. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2644-2647. | 1.8 | 2 |
| 162 | Thermal expansion and structural properties of (CuAlTe ₂) _{1-x} (CuAlSe ₂) _x solid solutions. Crystal Research and Technology, 2006, 41, 168-173. | 1.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Preferred Orientation, Grain Sizes and Grain Boundaries of Chalcopyrite-Type Thin Films. Materials Research Society Symposia Proceedings, 2007, 1012, 1. | 0.1 | 2 |
| 164 | Structural investigations of copper incorporation into In-Ga-Se precursor layers for Cu(In,Ga)Se ₂ thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1249-1252. | 0.8 | 2 |
| 165 | A case study of parameterized Rietveld refinement: The structural phase transition of CuInSe ₂ . Zeitschrift fÃ¼r Kristallographie, 2011, 226, 956-962. | 1.1 | 2 |
| 166 | Neutron diffraction studies of the structure of substituted complex cobalt oxides. Physics of the Solid State, 2014, 56, 77-80. | 0.6 | 2 |
| 167 | Chalcopyrite Thin-Film Solar-Cell Devices. Neutron Scattering Applications and Techniques, 2015, , 83-107. | 0.2 | 2 |
| 168 | High pressure effects on the magnetic and crystal structure of La 0.75 Ba 0.25 CoO 3. Materials Chemistry and Physics, 2016, 181, 78-81. | 4.0 | 2 |
| 169 | Magnetic phase transformations and magnetotransport phenomena in La _{0.7} Sr _{0.3} Mn ₁ × Co _x O ₃ perovskite compounds. Journal of Experimental and Theoretical Physics, 2017, 125, 290-297. | 0.9 | 2 |
| 170 | Cation and anion substitutions in hybrid perovskites: solubility limits and phase stabilizing effects. , 2018, , . | | 2 |
| 171 | Magnetic Structure and Magnetotransport Properties of La _{0.7} Sr _{0.3} Mn ₁ × Ni _x O ₃ . Physics of Metals and Metallography, 2018, 119, 316-323. | 1.0 | 2 |
| 172 | Origins of the Appearance of Ferromagnetic State and Colossal Magnetoresistance in Cobaltites. Physics of Metals and Metallography, 2019, 120, 325-332. | 1.0 | 2 |
| 173 | Spin state crossover and colossal magnetoresistance in barium-doped cobaltites. Journal of Physics and Chemistry of Solids, 2019, 129, 86-91. | 4.0 | 2 |
| 174 | Zur Rolle der Iodid-Methylammonium-Interaktion in der FerroelektrizitÃ¤t in CH ₃ NH ₃ PbI ₃ . Angewandte Chemie, 2020, 132, 432-436. | 2.0 | 2 |
| 175 | Elucidation of the reaction mechanism for the synthesis of ZnGeN ₂ through Zn ₂ GeO ₄ ammonolysis. Chemical Science, 2021, 12, 8493-8500. | 7.4 | 2 |
| 176 | Monte carlo simulation of TOF single crystal spectroscopy. Journal of Neutron Research, 1997, 6, 113-123. | 1.1 | 1 |
| 177 | Performance of a spin echo spectrometer at a long pulse spallation source. Journal of Neutron Research, 1997, 6, 95-102. | 1.1 | 1 |
| 178 | Time-of-flight spectroscopy. Physica B: Condensed Matter, 1997, 241-243, 166-168. | 2.7 | 1 |
| 179 | Structure and Phase Relations of the Zn _{2x} (CuIn) _{1-x} S ₂ Solid Solution Series.. ChemInform, 2005, 36, no. | 0.0 | 1 |
| 180 | Cation disorder and anion displacement in D _{II} XVI Al _{III} XVI ₂ semiconductors. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2614-2617. | 0.8 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | Pressure effects on oxygen-deficient Ba-substituted cobaltites. Powder Diffraction, 2013, 28, S126-S132. | 0.2 | 1 |
| 182 | Laue Diffraction Using Scintillator Detectors. Physics Procedia, 2015, 69, 314-319. | 1.2 | 1 |
| 183 | Valence and conduction band edges of selenide and sulfide-based kesterites—a study by x-ray based spectroscopy and ab initio theory. Semiconductor Science and Technology, 2017, 32, 104010. | 2.0 | 1 |
| 184 | 4. Microstructure analysis of chalcopyrite-type Cu ₂ ZnSe ₄ and kesterite-type Cu ₂ ZnSnSe ₄ absorber layers in thin film solar cells. , 2017, , 73-98. | | 1 |
| 185 | Structural and Optoelectronic Characterization of (Ag<inf>x</inf>) T _j ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 582 Td (Cu ₂ ZnSnSe ₄) | | |
| 186 | Ferromagnetic ordering, magnetic and magnetotransport properties of R1 ^x Srx(Mn1 ^x /2Sbx/2)O ₃ (R =) T _j ETQq0 0 0 rgBT ₁ /Overlock | | |
| 187 | EXAFS Study of the Local Order in Cu ₂ ZnSn(S _x Se _{1-x}) ₄ Alloys. Physica Status Solidi (B): Basic Research, 2019, 256, 1900150. | 1.5 | 1 |
| 188 | The Effect of Copper Vacancies on the Anion Position of Chalcopyrite Type CuGaS ₂ . Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800882. | 1.8 | 1 |
| 189 | Conductivity mechanisms and influence of the Cu/Zn disorder on electronic properties of the powder Cu ₂ ZnSn(S _{1-x} Se _x) ₄ solid solutions. Journal of Materials Research and Technology, 2021, 13, 2251-2259. | 5.8 | 1 |
| 190 | The new neutron Laue diffractometer at HZB. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s134-s134. | 0.3 | 1 |
| 191 | The role of point defects in multinary chalcogenide compound semiconductors. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C230-C230. | 0.1 | 1 |
| 192 | A Laue diffractometer for ambient and non-ambient neutron structural analysis. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C135-C135. | 0.1 | 1 |
| 193 | New avenues in experimentation on diffusion-controlled mineral reactions. , 2017, , 5-36. | | 1 |
| 194 | Thermal and electrical conductivity of single crystalline kesterite Cu ₂ ZnSnS ₄ . Materials Research Express, 2020, 7, 105908. | 1.6 | 1 |
| 195 | Critical dynamics in EuO below the Curie point. Physica B: Condensed Matter, 1997, 234-236, 749-751. | 2.7 | 0 |
| 196 | Preface: Phys. Status Solidi C 6/5. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 974-976. | 0.8 | 0 |
| 197 | Ternary and Multinary Compounds. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 987-988. | 0.8 | 0 |
| 198 | Vibrational and structural properties of Cu₂ZnSn(S_xSe_{1-x}) (0 < x < 1) solid solutions. , 2014, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | Comparison of Techniques for Strain Measurements in CuInSe ₂ Absorber Layers of Thin-film Solar Cells. <i>Microscopy and Microanalysis</i> , 2014, 20, 1464-1465. | 0.4 | 0 |
| 200 | Challenges and structural characterization of the solid solution Cu _{2-x} Zn(Ge _x) ₄ T _j ETQq0 0 0 rgBT /Overlock_0 Tf 50 | | |
| 201 | €- cubic SnS and spinel-type Zn ₂ GeO ₄ : Strategies for the bulk synthesis of metastable compounds for solar energy conversion.. , 2018, , . | 0 | |
| 202 | (Ag^xCu^{1-x}ZnSn(S,Se)₄ Thin Films Prepared By Spray Pyrolysis: The Influence of the Ag Concentration. , 2018, , . | | 0 |
| 203 | Magnetic Phase Diagrams of R _{1-x} Srx(Mn _{1-x} /2Sbx/2)O ₃ (R = La, Pr, Nd, Sm, Eu) with Trivalent Manganese Ions. <i>Physics of the Solid State</i> , 2018, 60, 1762-1767. | 0.6 | 0 |
| 204 | Neutron Diffraction Study of Magnetic and Structural Transitions in Complex Nb-Doped Cobalt Oxides. <i>Journal of Surface Investigation</i> , 2020, 14, S218-S220. | 0.5 | 0 |
| 205 | Water and oxygen induce undesired phase transitions in cesium-formamidinium lead halide perovskites. , 0, , . | 0 | |