

Matthias Schrade

List of Publications by Year in descending order

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27
papers

463
citations

759233

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713466

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28
times ranked

796
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The role of grain boundary scattering in reducing the thermal conductivity of polycrystalline XNiSn (X = Hf, Zr, Ti) half-Heusler alloys. <i>Scientific Reports</i> , 2017, 7, 13760. | 3.3 | 55 |
| 2 | Defect chemistry and electrical properties of BiFeO ₃ . <i>Journal of Materials Chemistry C</i> , 2017, 5, 10077-10086. | 5.5 | 54 |
| 3 | A comprehensive study on improved power materials for high-temperature thermoelectric generators. <i>Journal of Power Sources</i> , 2019, 410-411, 143-151. | 7.8 | 42 |
| 4 | Electronic Transport Properties of [Ca ₂ CoO ₃] _{1-x} [CoO ₂]. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2908-2918. | 3.1 | 39 |
| 5 | High temperature transport properties of thermoelectric CaMnO ₃ Indication of strongly interacting small polarons. <i>Journal of Applied Physics</i> , 2014, 115, 103705. | 2.5 | 38 |
| 6 | Relating defect chemistry and electronic transport in the double perovskite Ba _{1-x} Gd _{0.8} La _{0.2+x} Co ₂ O ₆ (BGLC). <i>Journal of Materials Chemistry A</i> , 2017, 5, 15743-15751. | 10.3 | 32 |
| 7 | Versatile apparatus for thermoelectric characterization of oxides at high temperatures. <i>Review of Scientific Instruments</i> , 2014, 85, 103906. | 1.3 | 31 |
| 8 | Oxygen Nonstoichiometry in (Ca ₂ CoO ₃) _{0.62} (CoO ₂): A Combined Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18899-18907. | 3.1 | 24 |
| 9 | Zn vacancy formation, Zn evaporation and decomposition of ZnSb at elevated temperatures: Influence on the microstructure and the electrical properties. <i>Journal of Alloys and Compounds</i> , 2017, 710, 762-770. | 5.5 | 20 |
| 10 | Influence of the Oxygen Content on the Electronic Transport Properties of Sr _x Eu _{1-x} TiO ₃ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 7821-7831. | 3.1 | 17 |
| 11 | Thermal stability and enhanced thermoelectric properties of the tetragonal tungsten bronzes Nb _{8-x} W _{9+x} O ₄₇ (0 < x < 5). <i>Journal of Materials Chemistry A</i> , 2017, 5, 9768-9774. | 10.3 | 17 |
| 12 | Tetragonal tungsten bronzes Nb _{8-x} W _{9+x} O ₄₇ : optimization strategies and transport properties of a new n-type thermoelectric oxide. <i>Materials Horizons</i> , 2015, 2, 519-527. | 12.2 | 15 |
| 13 | Direct Observation of Charge Transfer between NO _x and Monolayer MoS ₂ by Operando Scanning Photoelectron Microscopy. <i>ACS Applied Nano Materials</i> , 2021, 4, 3319-3324. | 5.0 | 11 |
| 14 | Hall effect measurements on thermoelectric Ca ₃ Co ₄ O ₉ : On how to determine the charge carrier concentration in strongly correlated misfit cobaltites. <i>Journal of Applied Physics</i> , 2015, 117, . | 2.5 | 10 |
| 15 | Shallow impurity band in ZrNiSn. <i>Journal of Applied Physics</i> , 2020, 127, . | 2.5 | 10 |
| 16 | Using the Callaway Model to Deduce Relevant Phonon Scattering Processes: The Importance of Phonon Dispersion. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1800208. | 1.5 | 9 |
| 17 | Electrical Properties of a p-n Heterojunction of Li-Doped NiO and Al-Doped ZnO for Thermoelectrics. <i>Journal of Electronic Materials</i> , 2018, 47, 5296-5301. | 2.2 | 6 |
| 18 | Synthesis, microstructure, and thermoelectric properties of Sb-Based high entropy alloys. <i>Intermetallics</i> , 2022, 143, 107495. | 3.9 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | The Band Gap of BaPrO ₃ Studied by Optical and Electrical Methods. Journal of the American Ceramic Society, 2016, 99, 492-498. | 3.8 | 4 |
| 20 | Long- and short-range structures of Ti _{1-x} Hf _x Ni _{1.0/1.1} Sn half-Heusler compounds and their electric transport properties. CrystEngComm, 2019, 21, 3330-3342. | 2.6 | 4 |
| 21 | Fabrication of a Silicide Thermoelectric Module Employing Fractional Factorial Design Principles. Journal of Electronic Materials, 2021, 50, 4041-4049. | 2.2 | 4 |
| 22 | Signatures of electronic polarons in La _{1-x} Co _{1-x} O ₃ junction for oxide-based thermoelectric generators. RSC Advances, 2020, 10, 5026-5031. | 2.2 | 4 |
| 23 | Chemical stability of Ca ₃ Co ₄ A _x O ₉₊₁ /CaMnO ₃ p-n junction for oxide-based thermoelectric generators. RSC Advances, 2020, 10, 5026-5031. | 3.6 | 3 |
| 24 | Thin films made by reactive sputtering of high entropy alloy FeCoNiCuGe: Optical, electrical and structural properties. Thin Solid Films, 2022, 744, 139083. | 1.8 | 3 |
| 25 | High entropy alloy CrFeNiCoCu sputter deposited films: Structure, electrical properties, and oxidation. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, . | 2.1 | 3 |
| 26 | Partial oxidation of high entropy alloys: A route toward nanostructured ferromagnets. Materialia, 2021, 20, 101250. | 2.7 | 2 |
| 27 | Centimeter-Sized Monolayer CVD Graphene with High Power Factor for Scalable Thermoelectric Applications. ACS Applied Electronic Materials, 0, , . | 4.3 | 2 |