Matthias Schrade

List of Publications by Year
in descending order

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27	463	759233 12	713466 21
papers	citations	h-index	g-index

28	28	28	796
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Synthesis, microstructure, and thermoelectric properties of Sb-Based high entropy alloys. Intermetallics, 2022, 143, 107495.	3.9	5
4	Direct Observation of Charge Transfer between NO_x and Monolayer MoS₂ by Operando Scanning Photoelectron Microscopy. ACS Applied Nano Materials, 2021, 4, 3319-3324.	5.0	11
5	Fabrication of a Silicide Thermoelectric Module Employing Fractional Factorial Design Principles. Journal of Electronic Materials, 2021, 50, 4041-4049.	2.2	4
6	Partial oxidation of high entropy alloys: A route toward nanostructured ferromagnets. Materialia, 2021, 20, 101250.	2.7	2
7	Shallow impurity band in ZrNiSn. Journal of Applied Physics, 2020, 127, .	2.5	10
8	Chemical stability of Ca₃Co_{4â^'x}O_{9+Î´}/CaMnO_{3â^'Î´} pâ€“n junction for oxide-based thermoelectric generators. RSC Advances, 2020, 10, 5026-5031.	3.6	3
9	Long- and short-range structures of Ti_{1â^'x}Hf_xNi_{1.0/1.1}Sn half-Heusler compounds and their electric transport properties. CrystEngComm, 2019, 21, 3330-3342.	2.6	4
10	A comprehensive study on improved power materials for high-temperature thermoelectric generators. Journal of Power Sources, 2019, 410-411, 143-151.	7.8	42
11	Using the Callaway Model to Deduce Relevant Phonon Scattering Processes: The Importance of Phonon Dispersion. Physica Status Solidi (B): Basic Research, 2018, 255, 1800208.	1.5	9
12	Electrical Properties of a pâ€“n Heterojunction of Li-Doped NiO and Al-Doped ZnO for Thermoelectrics. Journal of Electronic Materials, 2018, 47, 5296-5301.	2.2	6
13	Thermal stability and enhanced thermoelectric properties of the tetragonal tungsten bronzes Nb8â^'xW9+xO47 (0 < x < 5). Journal of Materials Chemistry A, 2017, 5, 9768-9774.	10.3	17
14	Zn vacancy formation, Zn evaporation and decomposition of ZnSb at elevated temperatures: Influence on the microstructure and the electrical properties. Journal of Alloys and Compounds, 2017, 710, 762-770.	5.5	20
15	The role of grain boundary scattering in reducing the thermal conductivity of polycrystalline XNiSn (Xâ€‰=â€‰Hf, Zr, Ti) half-Heusler alloys. Scientific Reports, 2017, 7, 13760.	3.3	55
16	Defect chemistry and electrical properties of BiFeO₃. Journal of Materials Chemistry C, 2017, 5, 10077-10086.	5.5	54
17	Relating defect chemistry and electronic transport in the double perovskite Ba_{1â^'x}Gd_{0.8}La_{0.2+x}Co₂O_{6â^'Î´} (BGLC). Journal of Materials Chemistry A, 2017, 5, 15743-15751.	10.3	32
18	The Band Gap of BaPrO₃ Studied by Optical and Electrical Methods. Journal of the American Ceramic Society, 2016, 99, 492-498.	3.8	4

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19	Tetragonal tungsten bronzes Nb_{8â^'x}W_{9+x}O_{47â^'Î´}: optimization strategies and transport properties of a new n-type thermoelectric oxide. Materials Horizons, 2015, 2, 519-527.	12.2	15
20	Hall effect measurements on thermoelectric Ca3Co4O9: On how to determine the charge carrier concentration in strongly correlated misfit cobaltites. Journal of Applied Physics, 2015, 117, .	2.5	10
21	Versatile apparatus for thermoelectric characterization of oxides at high temperatures. Review of Scientific Instruments, 2014, 85, 103906.	1.3	31
22	High temperature transport properties of thermoelectric CaMnO3â^'Î´â€" Indication of strongly interacting small polarons. Journal of Applied Physics, 2014, 115, 103705.	2.5	38
23	Electronic Transport Properties of [Ca₂CoO_{3â^'Î´}]_q[CoO₂]. Journal of Physical Chemistry C, 2014, 118, 2908-2918.	3.1	39
24	Oxygen Nonstoichiometry in (Ca₂CoO₃)_{0.62}(CoO₂): A Combined Experimental and Computational Study. Journal of Physical Chemistry C, 2014, 118, 18899-18907.	3.1	24
25	Influence of the Oxygen Content on the Electronic Transport Properties of Sr_xEu_{1â€“x}TiO_{3-Î´}. Journal of Physical Chemistry C, 2014, 118, 7321-7331.	3.1	17
26	Signatures of electronic polarons in La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><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:mrow /></mml:mrow></mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>+	3.2	8
27	Centimeter-Sized Monolayer CVD Graphene with High Power Factor for Scalable Thermoelectric Applications. ACS Applied Electronic Materials, 0, , .	4.3	2