

Sascha Populoh

List of Publications by Year in descending order

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52
papers

1,417
citations

331259

21
h-index

329751

37
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55
all docs

55
docs citations

55
times ranked

1742
citing authors

#	ARTICLE	IF	CITATIONS
1	High figure of merit in (Ti,Zr,Hf)NiSn half-Heusler alloys. Scripta Materialia, 2012, 66, 1073-1076.	2.6	130
2	Towards a high thermoelectric performance in rare-earth substituted SrTiO ₃ : effects provided by strongly-reducing sintering conditions. Physical Chemistry Chemical Physics, 2014, 16, 26946-26954.	1.3	96
3	Significant ZT enhancement in p-type Ti(Co,Fe)Sb-InSb nanocomposites via a synergistic high-mobility electron injection, energy-filtering and boundary-scattering approach. Acta Materialia, 2013, 61, 2087-2094.	3.8	87
4	Effect of A-Site Cation Deficiency on the Thermoelectric Performance of Donor-Substituted Strontium Titanate. Journal of Physical Chemistry C, 2014, 118, 4596-4606.	1.5	83
5	Designing strontium titanate-based thermoelectrics: insight into defect chemistry mechanisms. Journal of Materials Chemistry A, 2017, 5, 3909-3922.	5.2	81
6	Boosting Thermoelectric Performance by Controlled Defect Chemistry Engineering in Ta-Substituted Strontium Titanate. Chemistry of Materials, 2015, 27, 4995-5006.	3.2	67
7	Influence of tungsten substitution and oxygen deficiency on the thermoelectric properties of CaMnO ₃ . Journal of Applied Physics, 2013, 114, .	1.1	63
8	Enhancement of thermoelectric performance in strontium titanate by praseodymium substitution. Journal of Applied Physics, 2013, 113, .	1.1	58
9	Thermoelectric study of crossroads material MnTe via sulfur doping. Journal of Applied Physics, 2014, 115, .	1.1	53
10	Thermoelectric properties of nanostructured Al-substituted ZnO thin films. Thin Solid Films, 2012, 520, 6869-6875.	0.8	45
11	Improved thermoelectric performance of (Zr _{0.3} Hf _{0.7})NiSn half-Heusler compounds by Ta substitution. Journal of Applied Physics, 2014, 115, 183704.	1.1	40
12	Influence of the oxygen content on thermoelectric properties of Ca ₃ BixCo ₄ O ₉ + δ system. Solid State Sciences, 2011, 13, 2160-2164.	1.5	38
13	Structural and thermoelectric characterization of Ba substituted LaCoO ₃ perovskite-type materials obtained by polymerized gel combustion method. Journal of Alloys and Compounds, 2013, 579, 147-155.	2.8	36
14	Design of SrTiO ₃ -Based Thermoelectrics by Tungsten Substitution. Journal of Physical Chemistry C, 2015, 119, 4466-4478.	1.5	35
15	Charge-Carrier Hopping in Highly Conductive CaMn _{1-x} M _x O ₃ Thermoelectrics. Journal of Physical Chemistry C, 2015, 119, 21860-21867.	1.5	34
16	Half-Heusler (TiZrHf)NiSn Unileg Module with High Powder Density. Materials, 2013, 6, 1326-1332.	1.3	33
17	Thermoelectric properties of dense Sb-doped SnO ₂ ceramics. Journal of Alloys and Compounds, 2017, 692, 515-521.	2.8	32
18	Phase formation, stability, and oxidation in (Ti, Zr, Hf)NiSn half-Heusler compounds. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1259-1266.	0.8	28

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19	Design of p-CuO/n-ZnO heterojunctions by rf magnetron sputtering. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1386-1391.	0.8	24
20	Structure and thermoelectric properties of $\text{EuTi}(\text{O},\text{N})_{3\pm\delta}$. <i>Journal of Applied Physics</i> , 2013, 114, 1.1		24
21	Tuning the carrier concentration for thermoelectrical application in the quaternary Heusler compound $\text{Co}_2\text{TiAl}(\text{1}\hat{\sim}\text{x})\text{Six}$. <i>Scripta Materialia</i> , 2010, 63, 925-928.	2.6	22
22	Thermal conductivity of thermoelectric $\text{Al}\hat{\sim}\text{x}$ substituted ZnO thin films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 364-367.	1.2	22
23	Enhancement of redox- and phase-stability of thermoelectric $\text{CaMnO}_{3\hat{\sim}\text{x}}$ by substitution. <i>Journal of Solid State Chemistry</i> , 2015, 229, 62-67.	1.4	22
24	Electronic structure and thermoelectric properties of nanostructured $\text{EuTi}_{1\hat{\sim}\text{x}}\text{Nb}_{\text{x}}\text{O}_{3\hat{\sim}\text{x}}$ ($\hat{\sim}\text{x} = 0.00; 0.02$). <i>Applied Physics Letters</i> , 2012, 101, .	1.5	21
25	A self-forming nanocomposite concept for ZnO-based thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13386-13396.	5.2	21
26	Nanostructured Nb-substituted CaMnO_3 n-type thermoelectric material prepared in a continuous process by ultrasonic spray combustion. <i>Journal of Materials Research</i> , 2011, 26, 1947-1952.	1.2	18
27	Influence of the Oxygen Content on the Electronic Transport Properties of $\text{Sr}_{\text{x}}\text{Eu}_{1-\text{x}}\text{TiO}_{3-\hat{\sim}\text{x}}$. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7821-7831.	1.5	17
28	Tailoring thermoelectric properties of $\text{Zr}_{0.43}\text{Hf}_{0.57}\text{NiSn}$ half-Heusler compound by defect engineering. <i>Rare Metals</i> , 2020, 39, 659-670.	3.6	17
29	Tracking of high-temperature thermal expansion and transport properties vs. oxidation state of cobalt between +2 and +3 in the $\text{La}_2\text{Co}_{1+z}(\text{Ti}_{1\hat{\sim}\text{x}}\text{Mg}_{\text{x}})_{1\hat{\sim}\text{z}}\text{O}_6$ -system. <i>Journal of Materials Chemistry</i> , 2012, 22, 16269.	6.7	16
30	Laser deposition and direct-writing of thermoelectric misfit cobaltite thin films. <i>Applied Physics Letters</i> , 2014, 104, 231907.	1.5	16
31	Thermoelectric properties of CaMnO_3 films obtained by soft chemistry synthesis. <i>Journal of Materials Research</i> , 2012, 27, 985-990.	1.2	13
32	Optical and transport properties of $\text{LaTi}_{1\hat{\sim}\text{x}}\text{Mx}(\text{O},\text{N})_{3\hat{\sim}\text{x}}$ ($\text{x}=0; 0.1$, $\text{M}=\text{Nb}^{5+}, \text{W}^{6+}$) thin films prepared by plasma ammonolysis. <i>Journal of Solid State Chemistry</i> , 2014, 211, 106-112.	1.4	13
33	Fabrication and characterisation of cellular alumina articles produced via radiation curable dispersions. <i>Journal of the European Ceramic Society</i> , 2012, 32, 2173-2185.	2.8	11
34	Thermal conductivity of half-Heusler superlattices. <i>Semiconductor Science and Technology</i> , 2014, 29, 124003.	1.0	11
35	Compatibility approach for the improvement of oxide thermoelectric converters for industrial heat recovery applications. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	10
36	Lattice softening effects at the Mott critical point of Cr-doped V_{2O_3} . <i>Physical Review B</i> , 2011, 84, .	1.1	8

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37	Thermoelectric properties of $[\text{Ca}_2\text{CoO}_3]_{1.62}[\text{CoO}_2]_{1.62}$ as a function of Co/Ca defects and Co_3O_4 inclusions. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	8
38	CONSTRUCTION OF A HIGH TEMPERATURE TEG MEASUREMENT SYSTEM FOR THE EVALUATION OF THERMOELECTRIC OXIDE MODULES. <i>Functional Materials Letters</i> , 2013, 06, 1340012.	0.7	7
39	Crystal growth and thermoelectric properties of $\text{CaMn}_{0.98}\text{Nb}_{0.02}\text{O}_3$. <i>Journal of Crystal Growth</i> , 2013, 377, 170-177.	0.7	6
40	Synthesis, Crystal Structure, Electric and Magnetic Properties of $\text{LaVO}_{2.78}\text{N}_{0.10}$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 797-804.	0.6	6
41	Half-Heusler superlattices as model systems for nanostructured thermoelectrics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 732-738.	0.8	6
42	Exploring the Thermoelectric Performance of $\text{BaGd}_2\text{NiO}_5$ Haldane Gap Materials. <i>Inorganic Chemistry</i> , 2017, 56, 2354-2362.	1.9	6
43	Thermoelectric properties of thin films of Sb doped $\text{Mg}_2\text{Si}_{1-x}\text{Sn}_x$ solid solutions. <i>Journal of Alloys and Compounds</i> , 2013, 546, 138-144.	2.8	5
44	The power factor of Cr-doped V_2O_3 near the Mott transition. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	4
45	Thermoelectric properties of Ru and In substituted misfit-layered $\text{Ca}_3\text{Co}_4\text{O}_9$. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1543, 83-92.	0.1	4
46	Multiband Transport in CoSb_3 Prepared by Rapid Solidification. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 2020-2028.	0.6	4
47	Electrical transportation performances of Nb-SrTiO_3 regulated by the anion related chemical atmospheres. <i>Materials and Design</i> , 2016, 97, 7-12.	3.3	4
48	A morphology study on thermoelectric Al-substituted ZnO. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	3
49	High-temperature thermoelectric properties of W-substituted CaMnO_3 . <i>Materials Research Society Symposia Proceedings</i> , 2013, 1490, 3-8.	0.1	2
50	Attrition-enhanced nanocomposite synthesis of indium-filled, iron-substituted skutterudite antimonides for improved performance thermoelectrics. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1490, 27-32.	0.1	2
51	Chemical and Thermoelectric Properties of Hot Pressed and Spark Plasma Sintered Type-I Clathrate $\text{Ba}_8\text{Cu}_4.8\text{Si}_{41.2}$. <i>Journal of Electronic Materials</i> , 2016, 45, 1840-1845.	1.0	1
52	Advanced Thermoelectrics: From Materials to Devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1227-1228.	0.8	0