

# 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  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1742  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailoring thermoelectric properties of $Zr_{0.43}Hf_{0.57}NiSn$ half-Heusler compound by defect engineering. <i>Rare Metals</i> , 2020, 39, 659-670.	3.6	17
2	A self-forming nanocomposite concept for ZnO-based thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13386-13396.	5.2	21
3	Designing strontium titanate-based thermoelectrics: insight into defect chemistry mechanisms. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3909-3922.	5.2	81
4	Exploring the Thermoelectric Performance of $BaGd_2NiO_5$ Haldane Gap Materials. <i>Inorganic Chemistry</i> , 2017, 56, 2354-2362.	1.9	6
5	Thermoelectric properties of $[Ca_2CoO_3]^{1,62}$ as a function of Co/Ca defects and $Co_3O_4$ inclusions. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	8
6	Thermoelectric properties of dense Sb-doped $SnO_2$ ceramics. <i>Journal of Alloys and Compounds</i> , 2017, 692, 515-521.	2.8	32
7	Electrical transportation performances of $Nb\text{-}SrTiO_3$ regulated by the anion related chemical atmospheres. <i>Materials and Design</i> , 2016, 97, 7-12.	3.3	4
8	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
9	Chemical and Thermoelectric Properties of Hot Pressed and Spark Plasma Sintered Type-I Clathrate $Ba_8Cu_4.8Si_{41.2}$ . <i>Journal of Electronic Materials</i> , 2016, 45, 1840-1845.	1.0	1
10	Multiband Transport in $CoSb_3$ Prepared by Rapid Solidification. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 2020-2028.	0.6	4
11	Design of $SrTiO_3$ -Based Thermoelectrics by Tungsten Substitution. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4466-4478.	1.5	35
12	Enhancement of redox- and phase-stability of thermoelectric $CaMnO_3$ by substitution. <i>Journal of Solid State Chemistry</i> , 2015, 229, 62-67.	1.4	22
13	Boosting Thermoelectric Performance by Controlled Defect Chemistry Engineering in Ta-Substituted Strontium Titanate. <i>Chemistry of Materials</i> , 2015, 27, 4995-5006.	3.2	67
14	Charge-Carrier Hopping in Highly Conductive $CaMn_1MxO_3$ Thermoelectrics. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21860-21867.	1.5	34
15	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
16	Phase formation, stability, and oxidation in $(Ti, Zr, Hf)NiSn$ half-Heusler compounds. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1259-1266.	0.8	28
17	Improved thermoelectric performance of $(Zr_{0.3}Hf_{0.7})NiSn$ half-Heusler compounds by Ta substitution. <i>Journal of Applied Physics</i> , 2014, 115, 183704.	1.1	40
18	Thermoelectric study of crossroads material $MnTe$ via sulfur doping. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	53

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19	Thermal conductivity of half-Heusler superlattices. <i>Semiconductor Science and Technology</i> , 2014, 29, 124003.	1.0	11
20	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
21	Laser deposition and direct-writing of thermoelectric misfit cobaltite thin films. <i>Applied Physics Letters</i> , 2014, 104, 231907.	1.5	16
22	Towards a high thermoelectric performance in rare-earth substituted $\text{SrTiO}_3$ : effects provided by strongly-reducing sintering conditions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26946-26954.	1.3	96
23	Effect of A-Site Cation Deficiency on the Thermoelectric Performance of Donor-Substituted Strontium Titanate. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4596-4606.	1.5	83
24	Optical and transport properties of $\text{LaTi}_{1-x}\text{Mx}(\text{O,N})_3$ ( $x=0; 0.1, \text{M}=\text{Nb}^{5+}, \text{W}^{6+}$ ) thin films prepared by plasma ammonolysis. <i>Journal of Solid State Chemistry</i> , 2014, 211, 106-112.	1.4	13
25	Advanced Thermoelectrics: From Materials to Devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1227-1228.	0.8	0
26	Influence of the Oxygen Content on the Electronic Transport Properties of $\text{Sr}_{1-x}\text{Eu}_x\text{TiO}_3$ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 7821-7831.	1.5	17
27	Structural and thermoelectric characterization of Ba substituted $\text{LaCoO}_3$ perovskite-type materials obtained by polymerized gel combustion method. <i>Journal of Alloys and Compounds</i> , 2013, 579, 147-155.	2.8	36
28	Significant ZT enhancement in p-type $\text{Ti}(\text{Co,Fe})\text{SbInSb}$ nanocomposites via a synergistic high-mobility electron injection, energy-filtering and boundary-scattering approach. <i>Acta Materialia</i> , 2013, 61, 2087-2094.	3.8	87
29	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
30	Enhancement of thermoelectric performance in strontium titanate by praseodymium substitution. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	58
31	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
32	Thermal conductivity of thermoelectric Al-substituted ZnO thin films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 364-367.	1.2	22
33	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
34	Structure and thermoelectric properties of $\text{EuTi}(\text{O,N})_3$ . <i>Journal of Applied Physics</i> , 2013, 114, 1.1		24
35	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
36	Influence of tungsten substitution and oxygen deficiency on the thermoelectric properties of $\text{CaMnO}_3$ . <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	63

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37	Half-Heusler (TiZrHf)NiSn Unileg Module with High Powder Density. <i>Materials</i> , 2013, 6, 1326-1332.	1.3	33
38	High-temperature thermoelectric properties of W-substituted $\text{CaMnO}_3$ . <i>Materials Research Society Symposia Proceedings</i> , 2013, 1490, 3-8.	0.1	2
39	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
40	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
41	A morphology study on thermoelectric Al-substituted ZnO. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	3
42	Thermoelectric properties of $\text{CaMnO}_3$ films obtained by soft chemistry synthesis. <i>Journal of Materials Research</i> , 2012, 27, 985-990.	1.2	13
43	Electronic structure and thermoelectric properties of nanostructured $\text{EuTi}_{1-x}\text{Nb}_x\text{O}_3$ ( $x=0.00; 0.02$ ). <i>Applied Physics Letters</i> , 2012, 101, .	1.5	21
44	Thermoelectric properties of nanostructured Al-substituted ZnO thin films. <i>Thin Solid Films</i> , 2012, 520, 6869-6875.	0.8	45
45	Tracking of high-temperature thermal expansion and transport properties vs. oxidation state of cobalt between +2 and +3 in the $\text{La}_2\text{Co}_{1+z}(\text{Ti}_{1-x}\text{Mg}_x)\text{O}_6$ -system. <i>Journal of Materials Chemistry</i> , 2012, 22, 16269.	6.7	16
46	High figure of merit in (Ti,Zr,Hf)NiSn half-Heusler alloys. <i>Scripta Materialia</i> , 2012, 66, 1073-1076.	2.6	130
47	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
48	Influence of the oxygen content on thermoelectric properties of $\text{Ca}_{3-x}\text{Bi}_x\text{Co}_4\text{O}_9$ system. <i>Solid State Sciences</i> , 2011, 13, 2160-2164.	1.5	38
49	The power factor of Cr-doped $\text{V}_2\text{O}_3$ near the Mott transition. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	4
50	Lattice softening effects at the Mott critical point of Cr-doped $\text{V}_2\text{O}_3$ . <i>Physical Review B</i> , 2011, 84, .	1.1	8
51	Nanostructured Nb-substituted $\text{CaMnO}_3$ 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
52	Tuning the carrier concentration for thermoelectrical application in the quaternary Heusler compound $\text{Co}_2\text{TiAl}(\text{S}_x)\text{Six}$ . <i>Scripta Materialia</i> , 2010, 63, 925-928.	2.6	22