

J-W G Bos

List of Publications by Year in descending order

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94
papers

3,871
citations

147726

31
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128225

60
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100
all docs

100
docs citations

100
times ranked

5276
citing authors

#	ARTICLE	IF	CITATIONS
1	Atom Probe Tomography of a Cu-Doped TiNiSn Thermoelectric Material: Nanoscale Structure and Optimization of Analysis Conditions. <i>Microscopy and Microanalysis</i> , 2022, 28, 1340-1347.	0.2	3
2	Synthesis and thermoelectric properties of high-entropy half-Heusler $M\text{Fe}_{1-x}\text{Co}_x\text{Sb}$ ($M = \text{equimolar Ti}$). <i>Tj ETQq0 0.0 rgBT /Overlock 10</i>	2.8	19
3	Insights into Oxygen Migration in $\text{LaBaCo}_{2-x}\text{O}_{6-y}$ Perovskites from <i>In Situ</i> Neutron Powder Diffraction and Bond Valence Site Energy Calculations. <i>Chemistry of Materials</i> , 2022, 34, 1191-1202.	3.2	3
4	Promising thermoelectric performance in CaAgP with intrinsic Ag vacancies. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	10
5	Innovations in Energy Engineering and Cleaner Production: A Sustainable Chemistry Perspective. <i>Sustainable Chemistry</i> , 2022, 3, 112-113.	2.2	4
6	Exploiting bi-modulated magnetic field and drive current modulation to achieve high-sensitivity Hall measurements on thermoelectric samples. <i>MRS Advances</i> , 2022, 7, 608-613.	0.5	3
7	Electronic scattering in half-Heusler thermoelectrics from resistivity data. <i>JPhys Energy</i> , 2022, 4, 024005.	2.3	3
8	Fast synthesis of n-type half-Heusler TiNiSn thermoelectric material. <i>Scripta Materialia</i> , 2021, 191, 71-75.	2.6	15
9	Advances in half-Heusler alloys for thermoelectric power generation. <i>Materials Advances</i> , 2021, 2, 6246-6266.	2.6	90
10	Decoupling Lattice and Magnetic Instabilities in Frustrated CuMnO_2 . <i>Inorganic Chemistry</i> , 2021, 60, 6004-6015.	1.9	7
11	Thermal properties of TiNiSn and VFeSb half-Heusler thermoelectrics from synchrotron x-ray powder diffraction. <i>JPhys Energy</i> , 2021, 3, 035001.	2.3	6
12	Effect of Lewis basicity on the continuous gas phase condensation of benzaldehyde with acetophenone over MgO. <i>Applied Catalysis A: General</i> , 2021, 623, 118277.	2.2	7
13	Recent developments in half-Heusler thermoelectric materials. , 2021, , 125-142.		10
14	$\text{Ba}_{2-x}\text{Bi}_x\text{CoRuO}_6$ (0.0 $\leq x \leq$ 0.6) Hexagonal Double-Perovskite-Type Oxides as Promising p-Type Thermoelectric Materials. <i>Inorganic Chemistry</i> , 2021, 60, 17824-17836.	1.9	4
15	Epitaxial vanadium nanolayers to suppress interfacial reactions during deposition of titanium-bearing Heusler alloys on MgO ($0 \leq x \leq 1$). <i>Applied Surface Science</i> , 2020, 512, 145649.	3.1	4
16	Hybrid Flash-SPS of $\text{TiNiCu}_{0.05}\text{Sn}$ with reduced thermal conductivity. <i>Journal of Alloys and Compounds</i> , 2020, 837, 155058.	2.8	20
17	Spin-chain correlations in the frustrated triangular lattice material CuMnO_2 . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 445802.	0.7	2
18	Effect of light scattering on upconversion photoluminescence quantum yield in microscale-to-nanoscale materials. <i>Optics Express</i> , 2020, 28, 22803.	1.7	13

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19	Screen printed tin selenide films used as the counter electrodes in dye sensitized solar cells. Solar Energy, 2019, 190, 28-33.	2.9	24
20	Phase stability and thermoelectric properties of TiCoSb-TiM ₂ Sn (M = Ni, Fe) Heusler composites. Journal of Solid State Chemistry, 2019, 276, 181-189.	1.4	6
21	Low thermal conductivity and promising thermoelectric performance in A _{1-x} CoSb (A = V, Tl) half-Heusler thermoelectrics. Journal of Applied Physics, 2019, 125, 155101.	2.7	18
22	Toward New Thermoelectrics: Tin Selenide/Modified Graphene Oxide Nanocomposites. ACS Omega, 2019, 4, 6010-6019.	1.6	13
23	Phonon-Glass and Heterogeneous Electrical Transport in A-Site-Deficient SrTiO ₃ . Journal of Physical Chemistry C, 2019, 123, 5198-5208.	1.5	17
24	Spontaneous formation of nanostructures during pulsed laser deposition of epitaxial half-Heusler TiNiSn on MgO(001). APL Materials, 2019, 7, 013206.	2.2	5
25	Suppression of thermal conductivity without impeding electron mobility in n-type XNiSn half-Heusler thermoelectrics. Journal of Materials Chemistry A, 2019, 7, 27124-27134.	5.2	18
26	Grain-by-Grain Compositional Variations and Interstitial Metals: A New Route toward Achieving High Performance in Half-Heusler Thermoelectrics. ACS Applied Materials & Interfaces, 2018, 10, 4786-4793.	4.0	39
27	Impact of Nb vacancies and p-type doping of the NbCoSn half-Heusler thermoelectrics. Physical Chemistry Chemical Physics, 2018, 20, 3979-3987.	1.3	27
28	Topotactic anion-exchange in thermoelectric nanostructured layered tin chalcogenides with reduced selenium content. Chemical Science, 2018, 9, 3828-3836.	3.7	28
29	Substitution Versus Full-Heusler Segregation in TiCoSb. Metals, 2018, 8, 935.	1.0	4
30	Impact of Interstitial Ni on the Thermoelectric Properties of the Half-Heusler TiNiSn. Materials, 2018, 11, 536.	1.3	35
31	Critical mode and band-gap-controlled bipolar thermoelectric properties of SnSe. Physical Review Materials, 2018, 2, .	0.9	13
32	Chlorine-Enabled Electron Doping in Solution-Synthesized SnSe Thermoelectric Nanomaterials. Advanced Energy Materials, 2017, 7, 1602328.	10.2	64
33	Evidence for hard and soft substructures in thermoelectric SnSe. Applied Physics Letters, 2017, 110, .	1.5	29
34	Large-Scale Surfactant-Free Synthesis of p-Type SnTe Nanoparticles for Thermoelectric Applications. Materials, 2017, 10, 233.	1.3	27
35	Theoretical prediction of strain tuneable quaternary spintronic Heusler compounds. IUCr, 2017, 4, 712-713.	1.0	1
36	Facile Surfactant-Free Synthesis of p-Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. Angewandte Chemie, 2016, 128, 6543-6547.	1.6	9

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37	Facile Surfactant-Free Synthesis of p-Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6433-6437.	7.2	81
38	A-Site Deficient SrTiO ₃ : A Possible Phonon-Glass Electron-Crystal?. <i>MRS Advances</i> , 2016, 1, 3997-4002.	0.5	3
39	Atomic ordering in cubic bismuth telluride alloy phases at high pressure. <i>Physical Review B</i> , 2016, 93, .	1.1	13
40	Thermoelectric properties and high-temperature stability of the Ti _{1-x} V _x CoSb _{1-x} Sn _x half-Heusler alloys. <i>RSC Advances</i> , 2016, 6, 56511-56517.	1.7	12
41	Large thermoelectric power factors and impact of texturing on the thermal conductivity in polycrystalline SnSe. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1685-1691.	2.7	94
42	Efficient thermoelectric performance in silicon nano-films by vacancy-engineering. <i>Nano Energy</i> , 2015, 16, 350-356.	8.2	28
43	Structural changes in thermoelectric SnSe at high pressures. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 072202.	0.7	56
44	Ambient-Pressure Synthesis of Two New Vanadium-Based Calcium Ferrite-Type Compounds: NaV _{1.25} Ti _{0.75} O ₄ and NaVSnO ₄ . <i>Inorganic Chemistry</i> , 2015, 54, 7264-7271.	1.9	8
45	Thermoelectric properties of Fe and Al double substituted MnSi ($\hat{1}^3\sim 1.73$). <i>Journal of Solid State Chemistry</i> , 2015, 227, 55-59.	1.4	30
46	Metal Distributions, Efficient n-Type Doping, and Evidence for in-Gap States in TiNiM _{1-y} Sn (M = Co, Ni, Cu) half-Heusler Nanocomposites. <i>Chemistry of Materials</i> , 2015, 27, 2449-2459.	3.2	44
47	Compositions and thermoelectric properties of XNiSn (X = Ti, Zr, Hf) half-Heusler alloys. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10534-10542.	2.7	49
48	Antisite-disorder, magnetic and thermoelectric properties of Mo-rich Sr ₂ Fe _{1-y} Mo _{1+y} O ₆ (0 ≤ y ≤ 0.2) double perovskites. <i>Dalton Transactions</i> , 2015, 44, 10621-10627.	1.6	11
49	Effect of Spark Plasma Sintering on the Structure and Properties of Ti _{1-x} Zr _x NiSn Half-Heusler Alloys. <i>Materials</i> , 2014, 7, 7093-7104.	1.3	22
50	Thermoelectric performance of multiphase XNiSn (X = Ti, Zr, Hf) half-Heusler alloys. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6107-6114.	5.2	72
51	Synthesis and Properties of Lanthanide Ruthenium(III) Oxide Perovskites. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8343-8347.	7.2	18
52	Glass-like thermal conductivity in SrTiO ₃ thermoelectrics induced by A-site vacancies. <i>RSC Advances</i> , 2014, 4, 33720-33723.	1.7	89
53	Half-Heusler thermoelectrics: a complex class of materials. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 433201.	0.7	141
54	Enhanced thermoelectric performance in TiNiSn-based half-Heuslers. <i>Chemical Communications</i> , 2013, 49, 4184.	2.2	80

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55	New compounds and structures in the solid state. Annual Reports on the Progress of Chemistry Section A, 2013, 109, 379.	0.8	0
56	Low-temperature spin dynamics of a valence bond glass in Ba_2YMoO_6 . New Journal of Physics, 2013, 15, 043024.	1.2	19
57	Inelastic neutron scattering study of crystal field excitations of Nd^{3+} in NdFeAsO . Physical Review B, 2013, 88, .	1.1	9
58	New compounds and structures in the solid state. Annual Reports on the Progress of Chemistry Section A, 2012, 108, 408.	0.8	1
59	Phase stability, structures and properties of the $(\text{Bi}_2)_m(\text{Bi}_2\text{Te}_3)_n$ natural superlattices. Journal of Solid State Chemistry, 2012, 193, 13-18.	1.4	30
60	Phase stability, structures and thermoelectric properties of the $(\text{Bi}_2)_m \cdot (\text{Bi}_2\text{Te}_3)_n$ infinitely adaptive series. AIP Conference Proceedings, 2012, , .	0.3	3
61	Iron spin-reorientation transition in NdFeAsO . Journal of Physics Condensed Matter, 2012, 24, 256007.	0.7	8
62	Direct evidence for the magnetic ordering of Nd ions in NdFeAsO by high-resolution inelastic neutron scattering. Physical Review B, 2011, 84, .	1.1	7
63	Nd-induced Mn spin-reorientation transition in NdMnAsO . Physical Review B, 2010, 82, .	1.1	48
64	Superconductivity in $\text{NdFe}_x\text{As}_{1-x}$		

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73	Structure and magnetic properties of the double perovskite $\text{Li}_x\text{Co}_2\text{O}_7$ and comparison to $\text{Li}_x\text{Ni}_2\text{O}_7$. Physical Review B, 2008, 78, .	1.1	129
74	Phonon density of states in $\text{NdFeAsO}_{1-x}\text{Fx}$. Physical Review B, 2008, 78, .	1.1	41
75	Magnetolectric coupling in the cubic ferrimagnet $\text{Cu}_2\text{Mn}_2\text{O}_7$. Physical Review B, 2008, 78, .	1.1	135
76	High pressure synthesis of late rare earth $\text{RFeAs}(\text{O},\text{F})$ superconductors; R = Tb and Dy. Chemical Communications, 2008, , 3634.	2.2	96
77	Structures and thermoelectric properties of the infinitely adaptive series $(\text{Bi}_2)_m(\text{Bi}_2\text{Te}_3)_n$. Physical Review B, 2007, 75, .	1.1	176
78	Synthesis, crystal structure and thermoelectric properties of $\text{IrSn}_{1.5}\text{Te}_{1.5}$ -based skutterudites. Solid State Communications, 2007, 141, 38-41.	0.9	22
79	Synthesis and properties of the double perovskites La_2NiVO_6 , La_2CoVO_6 , and $\text{La}_2\text{CoTiO}_6$. Journal of Solid State Chemistry, 2007, 180, 75-83.	1.4	44
80	Magnetic and thermoelectric properties of layered $\text{Li}_x\text{Na}_y\text{CoO}_2$. Journal of Solid State Chemistry, 2007, 180, 3211-3217.	1.4	20
81	Structure and magnetic properties of hollandite $\text{Ba}_{1.2}\text{Mn}_8\text{O}_{16}$. Journal of Physics Condensed Matter, 2006, 18, 3745-3752.	0.7	41
82	Crystal structure and elementary properties of Na_xCoO_2 ($x=0.32, 0.51, 0.6, 0.75$, and 0.92) in the three-layer NaCoO_2 family. Physical Review B, 2006, 73, .	1.1	109
83	Ferromagnetism below 10 K in Mn-doped BiTe. Physical Review B, 2006, 74, .	1.1	28
84	Superconductivity in Cu_xTiSe_2 . Nature Physics, 2006, 2, 544-550.	6.5	812
85	Crystal and magnetic structures of the double perovskite $\text{La}_2\text{CoRuO}_6$. Journal of Materials Chemistry, 2005, 15, 715.	6.7	23
86	Structural and Magnetic Properties of the Double Perovskite LaCaMnNbO_6 . ChemInform, 2005, 36, no.	0.1	0
87	Orbital ordering and valence states in $(\text{La}_{1-x}\text{Ca}_x)\text{CoRuO}_6$ double perovskites. Physical Review B, 2005, 72, .	1.1	7
88	Control of antisite disorder, magnetism, and asymmetric doping effects in $(\text{La}_{1-x}\text{Ca}_x)\text{CoRuO}_6$ double perovskites. Physical Review B, 2004, 69, .	1.1	16
89	Magnetic frustration in $(\text{La}_A)\text{CoNbO}_6$ ($A=\text{Ca}, \text{Sr}, \text{and Ba}$) double perovskites. Physical Review B, 2004, 70, .	1.1	71
90	Structural and Magnetic Properties of the Double Perovskite LaCaMnNbO_6 . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2004, 630, 2248-2252.	0.6	14

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91	Structural, Magnetic, and Transport Properties of $(La_{1+x}Sr_{1-x})CoRuO_6$ Double Perovskites.. ChemInform, 2004, 35, no.	0.1	0
92	Structural, Magnetic, and Transport Properties of $(La_{1+x}Sr_{1-x})CoRuO_6$ Double Perovskites. Chemistry of Materials, 2004, 16, 1822-1827.	3.2	43
93	Site Disorder Induced Hexagonal \rightarrow Orthorhombic Transition in $Y_{3+1-x}Gd_{3+x}MnO_3$. Chemistry of Materials, 2001, 13, 4804-4807.	3.2	24
94	Asymmetry of electron and hole doping in $YMnO_3$. Physical Review B, 2001, 63, .	1.1	63