J-W G Bos

List of Publications by Year
in descending order

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94 papers	3,871 citations	147726 31 h-index	128225 60 g-index
100 all docs	100 docs citations	100 times ranked	5276 citing authors

#	Article	IF	Citations
1	Superconductivity in CuxTiSe2. Nature Physics, 2006, 2, 544-550.	6.5	812
2	Structures and thermoelectric properties of the infinitely adaptive series(Bi2)m(Bi2Te3)n. Physical Review B, 2007, 75, .	1.1	176
3	Half-Heusler thermoelectrics: a complex class of materials. Journal of Physics Condensed Matter, 2014, 26, 433201.	0.7	141
4	Magnetoelectric coupling in the cubic ferrimagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Cu</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu Physical Review B, 2008, 78, .	1.1	135
5	display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Li</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">Co</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>and	1.1	129
6	Valence Bond Glass on an fcc Lattice in the Double Perovskite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>YMoO</mml:mi><mm Physical Review Letters, 2010, 104, 177202.	2.9	121
7	Crystal structure and elementary properties ofNaxCoO2(x=0.32, 0.51, 0.6, 0.75, and 0.92) in the three-layerNaCoO2family. Physical Review B, 2006, 73, .	1.1	109
8	High pressure synthesis of late rare earth RFeAs(O,F) superconductors; R = Tb and Dy. Chemical Communications, 2008, , 3634.	2.2	96
9	Large thermoelectric power factors and impact of texturing on the thermal conductivity in polycrystalline SnSe. Journal of Materials Chemistry C, 2016, 4, 1685-1691.	2.7	94
10	Advances in half-Heusler alloys for thermoelectric power generation. Materials Advances, 2021, 2, 6246-6266.	2.6	90
11	Glass-like thermal conductivity in SrTiO₃ thermoelectrics induced by A-site vacancies. RSC Advances, 2014, 4, 33720-33723.	1.7	89
12	Facile Surfactantâ€Free Synthesis of pâ€Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. Angewandte Chemie - International Edition, 2016, 55, 6433-6437.	7.2	81
13	Enhanced thermoelectric performance in TiNiSn-based half-Heuslers. Chemical Communications, 2013, 49, 4184.	2.2	80
14	Thermoelectric performance of multiphase XNiSn (X = Ti, Zr, Hf) half-Heusler alloys. Journal of Materials Chemistry A, 2014, 2, 6107-6114.	5.2	72
15	Magnetic frustration in(LaA)CoNbO6(A=Ca, Sr, and Ba) double perovskites. Physical Review B, 2004, 70, .	1.1	71
16	Chlorineâ€Enabled Electron Doping in Solutionâ€Synthesized SnSe Thermoelectric Nanomaterials. Advanced Energy Materials, 2017, 7, 1602328.	10.2	64
17	Asymmetry of electron and hole doping inYMnO3. Physical Review B, 2001, 63, .	1.1	63
18	Superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NdFe</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml: xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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19	Structural changes in thermoelectric SnSe at high pressures. Journal of Physics Condensed Matter, 2015, 27, 072202.	0.7	56
20	Compositions and thermoelectric properties of XNiSn (X = Ti, Zr, Hf) half-Heusler alloys. Journal of Materials Chemistry C, 2015, 3, 10534-10542.	2.7	49
21	Nd-induced Mn spin-reorientation transition in NdMnAsO. Physical Review B, 2010, 82, .	1.1	48
22	Synthesis and properties of the double perovskites La2NiVO6, La2CoVO6, and La2CoTiO6. Journal of Solid State Chemistry, 2007, 180, 75-83.	1.4	44
23	Metal Distributions, Efficient n-Type Doping, and Evidence for in-Gap States in TiNiM_ySn (M = Co, Ni, Cu) half-Heusler Nanocomposites. Chemistry of Materials, 2015, 27, 2449-2459.	3.2	44
24	Structural, Magnetic, and Transport Properties of (La1+xSr1-x)CoRuO6 Double Perovskites. Chemistry of Materials, 2004, 16, 1822-1827.	3.2	43
25	Structure and magnetic properties of hollandite Ba1.2Mn8O16. Journal of Physics Condensed Matter, 2006, 18, 3745-3752.	0.7	41
26	Phonon density of states inNdFeAsO1â^'xFx. Physical Review B, 2008, 78, .	1.1	41
27	Structural and electronic response upon hole doping of rare-earth iron oxyarsenides Nd_{1â^'}_xSr_xFeAsO (0 < xâ‰ˆ 0.2). Chemical Communications, 2009, , 707-709.	2.2	41
28	Grain-by-Grain Compositional Variations and Interstitial Metalsâ€"A New Route toward Achieving High Performance in Half-Heusler Thermoelectrics. ACS Applied Materials & Interfaces, 2018, 10, 4786-4793.	4.0	39
29	Influence of theNdâ€‰4fstates on the magnetic behavior and the electric field gradient of the oxypnictides superconductorsNdFeAsO1â^'xFx. Physical Review B, 2009, 79, .	1.1	35
30	Impact of Interstitial Ni on the Thermoelectric Properties of the Half-Heusler TiNiSn. Materials, 2018, 11, 536.	1.3	35
31	Investigation of superconducting gap structure in TbFeAsO_{0.9}F_{0.1}using point contact Andreev reflection. New Journal of Physics, 2009, 11, 025015.	1.2	33
32	Phase stability, structures and properties of the (Bi2)m (Bi2Te3)n natural superlattices. Journal of Solid State Chemistry, 2012, 193, 13-18.	1.4	30
33	Thermoelectric properties of Fe and Al double substituted MnSi (Î³~1.73). Journal of Solid State Chemistry, 2015, 227, 55-59.	1.4	30
34	Evidence for hard and soft substructures in thermoelectric SnSe. Applied Physics Letters, 2017, 110, .	1.5	29
35	Ferromagnetism below10Kin Mn-doped BiTe. Physical Review B, 2006, 74, .	1.1	28
36	Coupled Spin Ordering in the Ln₂LiRuO₆ Double Perovskites. Chemistry of Materials, 2009, 21, 264-272.	3.2	28

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37	Efficient thermoelectric performance in silicon nano-films by vacancy-engineering. Nano Energy, 2015, 16, 350-356.	8.2	28
38	Topotactic anion-exchange in thermoelectric nanostructured layered tin chalcogenides with reduced selenium content. Chemical Science, 2018, 9, 3828-3836.	3.7	28
39	Large-Scale Surfactant-Free Synthesis of p-Type SnTe Nanoparticles for Thermoelectric Applications. Materials, 2017, 10, 233.	1.3	27
40	Impact of Nb vacancies and p-type doping of the NbCoSnâ€“NbCoSb half-Heusler thermoelectrics. Physical Chemistry Chemical Physics, 2018, 20, 3979-3987.	1.3	27
41	Site Disorder Induced Hexagonalâ^'Orthorhombic Transition in Y3+1-xGd3+xMnO3. Chemistry of Materials, 2001, 13, 4804-4807.	3.2	24
42	Screen printed tin selenide films used as the counter electrodes in dye sensitized solar cells. Solar Energy, 2019, 190, 28-33.	2.9	24
43	Crystal and magnetic structures of the double perovskite La2CoRuO6. Journal of Materials Chemistry, 2005, 15, 715.	6.7	23
44	Synthesis, crystal structure and thermoelectric properties of IrSn1.5Te1.5 -based skutterudites. Solid State Communications, 2007, 141, 38-41.	0.9	22
45	Suppression of the superconducting transition of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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55	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
56	Phononâ€“Glass and Heterogeneous Electrical Transport in A-Site-Deficient SrTiO₃. Journal of Physical Chemistry C, 2019, 123, 5198-5208.	1.5	17
57	Control of antisite disorder, magnetism, and asymmetric doping effects in (La1+xCa1-x)CoRuO6 double perovskites. Physical Review B, 2004, 69, .	1.1	16
58	Fast synthesis of n-type half-heusler TiNiSn thermoelectric material. Scripta Materialia, 2021, 191, 71-75.	2.6	15
59	Structural and Magnetic Properties of the Double Perovskite LaCaMnNbO6. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2004, 630, 2248-2252.	0.6	14
60	Atomic ordering in cubic bismuth telluride alloy phases at high pressure. Physical Review B, 2016, 93, .	1.1	13
61	Toward New Thermoelectrics: Tin Selenide/Modified Graphene Oxide Nanocomposites. ACS Omega, 2019, 4, 6010-6019.	1.6	13
62	Critical mode and band-gap-controlled bipolar thermoelectric properties of SnSe. Physical Review Materials, 2018, 2, .	0.9	13
63	Effect of light scattering on upconversion photoluminescence quantum yield in microscale-to-nanoscale materials. Optics Express, 2020, 28, 22803.	1.7	13
64	Thermoelectric properties and high-temperature stability of the Ti_{1â^'x}V_xCoSb_{1â^'x}Sn_x half-Heusler alloys. RSC Advances, 2016, 6, 56511-56517.	1.7	12
65	Antisite-disorder, magnetic and thermoelectric properties of Mo-rich Sr₂Fe_{1â^'y}Mo_{1+y}O₆ (0 â‰¤ y â‰¤ 0.2) double perovskites. Dalton Transactions, 2015, 44, 10621-10627.	1.6	11
66	Recent developments in half-Heusler thermoelectric materials. , 2021, , 125-142.		10
67	Promising thermoelectric performance in CaAgP with intrinsic Ag vacancies. Applied Physics Letters, 2022, 120, .	1.5	10
68	Inelastic neutron scattering study of crystal field excitations ofNd3+in NdFeAsO. Physical Review B, 2013, 88, .	1.1	9
69	Facile Surfactantâ€Free Synthesis of pâ€Type SnSe Nanoplates with Exceptional Thermoelectric Power Factors. Angewandte Chemie, 2016, 128, 6543-6547.	1.6	9
70	Iron spin-reorientation transition in NdFeAsO. Journal of Physics Condensed Matter, 2012, 24, 256007.	0.7	8
71	Ambient-Pressure Synthesis of Two New Vanadium-Based Calcium Ferrite-Type Compounds: NaV1.25Ti0.75O4 and NaVSnO4. Inorganic Chemistry, 2015, 54, 7264-7271.	1.9	8
72	Orbital ordering and valence states in(La1+xCa1â^'x)CoRuO6double perovskites. Physical Review B, 2005, 72, .	1.1	7

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73	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
74	Decoupling Lattice and Magnetic Instabilities in Frustrated CuMnO₂. Inorganic Chemistry, 2021, 60, 6004-6015.	1.9	7
75	Effect of Lewis basicity on the continuous gas phase condensation of benzaldehyde with acetophenone over MgO. Applied Catalysis A: General, 2021, 623, 118277.	2.2	7
76	Phase stability and thermoelectric properties of TiCoSb-TiM2Sn (Mâ€¯=â€¯Ni, Fe) Heusler composites. Journal of Solid State Chemistry, 2019, 276, 181-189.	1.4	6
77	Thermal properties of TiNiSn and VFeSb half-Heusler thermoelectrics from synchrotron x-ray powder diffraction. JPhys Energy, 2021, 3, 035001.	2.3	6
78	Spontaneous formation of nanostructures during pulsed laser deposition of epitaxial half-Heusler TiNiSn on MgO(001). APL Materials, 2019, 7, 013206.	2.2	5
79	Substitution Versus Full-Heusler Segregation in TiCoSb. Metals, 2018, 8, 935.	1.0	4
80	Epitaxial vanadium nanolayers to suppress interfacial reactions during deposition of titanium-bearing Heusler alloys on MgO(0â€¯0â€¯1). Applied Surface Science, 2020, 512, 145649.	3.1	4
81	Ba_{2â€“x}Bi_xCoRuO₆ (0.0 â‰¤ x â‰¤ 0.6) Hexagonal Double-Perovskite-Type Oxides as Promising p-Type Thermoelectric Materials. Inorganic Chemistry, 2021, 60, 17824-17836.	1.9	4
82	Innovations in Energy Engineering and Cleaner Production: A Sustainable Chemistry Perspective. Sustainable Chemistry, 2022, 3, 112-113.	2.2	4
83	Phase stability, structures and thermoelectric properties of the (Bi2)m[middle dot](Bi2Te3)n infinitely adaptive series. AIP Conference Proceedings, 2012, , .	0.3	3
84	A-Site Deficient SrTiO3: A Possible Phonon-Glass Electron-Crystal?. MRS Advances, 2016, 1, 3997-4002.	0.5	3
85	Atom Probe Tomography of a Cu-Doped TiNiSn Thermoelectric Material: Nanoscale Structure and Optimization of Analysis Conditions. Microscopy and Microanalysis, 2022, 28, 1340-1347.	0.2	3
86	Insights into Oxygen Migration in LaBaCo₂O_{6â^Î´} Perovskites from In Situ Neutron Powder Diffraction and Bond Valence Site Energy Calculations. Chemistry of Materials, 2022, 34, 1191-1202.	3.2	3
87	Exploiting bi-modulated magnetic field and drive current modulation to achieve high-sensitivity Hall measurements on thermoelectric samples. MRS Advances, 2022, 7, 608-613.	0.5	3
88	Electronic scattering in half-Heusler thermoelectrics from resistivity data. JPhys Energy, 2022, 4, 024005.	2.3	3
89	Spin-chain correlations in the frustrated triangular lattice material CuMnO2. Journal of Physics Condensed Matter, 2020, 32, 445802.	0.7	2
90	New compounds and structures in the solid state. Annual Reports on the Progress of Chemistry Section A, 2012, 108, 408.	0.8	1

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91	Theoretical prediction of strain tuneable quaternary spintronic Heusler compounds. IUCrJ, 2017, 4, 712-713.	1.0	1
92	Structural, Magnetic, and Transport Properties of (La1+xSr1-x)CoRuO6 Double Perovskites.. ChemInform, 2004, 35, no.	0.1	0
93	Structural and Magnetic Properties of the Double Perovskite LaCaMnNbO6.. ChemInform, 2005, 36, no.	0.1	0
94	New compounds and structures in the solid state. Annual Reports on the Progress of Chemistry Section A, 2013, 109, 379.	0.8	0