Gunter Heymann

List of Publications by Year
in descending order

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77	1,051	430754	477173
papers	citations	18 h-index	29 g-index

100	100	100	1068
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microstrain Sensitivity of Orbital and Electronic Phase Separation inSrCrO3. Physical Review Letters, 2007, 99, 255701.	2.9	88
2	A new 2D high-pressure phase of PdSe₂ with high-mobility transport anisotropy for photovoltaic applications. Journal of Materials Chemistry C, 2019, 7, 2096-2105.	2.7	70
3	Multianvil high-pressure/high-temperature preparation, crystal structure, and properties of the new oxoborate Î²-ZnB4O7. Solid State Sciences, 2003, 5, 281-289.	1.5	66
4	Narrow-Band Red Emission in the Nitridolithoaluminate Sr4[LiAl11N14]:Eu2+. Chemistry of Materials, 2017, 29, 1204-1209.	3.2	64
5	Crystal Structures, Phase-Transition, and Photoluminescence of Rare Earth Carbodiimides. Inorganic Chemistry, 2008, 47, 10455-10460.	1.9	54
6	Î´-La(BO2)3 (â‰¡Î´-LaB3O6): A new high-pressure modification of lanthanum meta-oxoborate. Solid State Sciences, 2006, 8, 821-829.	1.5	45
7	High-pressure preparation, crystal structure, and properties of the new rare-earth oxoborate Î²-Dy2B4O9. Journal of Solid State Chemistry, 2003, 170, 320-329.	1.4	44
8	The High-Pressure Modification of CePtSn â€“ Synthesis, Structure, and Magnetic Properties. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2005, 60, 821-830.	0.3	34
9	Ferroelastic lattice rotation and band-gap engineering in quasi 2D layered-structure PdSe₂under uniaxial stress. Nanoscale, 2019, 11, 12317-12325.	2.8	32
10	High-Pressure Synthesis, Crystal Structure, And Properties Of Î´-Ce(Bo2)3. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2007, 62, 759-764.	0.3	29
11	Synthesis, Structure, and Properties of the High-Pressure Modification of CePdSn â€“ a 5 K Antiferromagnet. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 77-82.	0.6	26
12	High-Pressure Synthesis of a Gallium Oxonitride with a Spinel-Type Structure. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2005, 60, 831-836.	0.3	25
13	High-Pressure Syntheses, Crystal Structures, And Thermal Behaviour Of Î²-Re(Bo₂)₃ (Re = Nd, Sm, Gd). Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2007, 62, 765-770.	0.3	23
14	Pr4B10O21: A new composition of rare-earth borates by high-pressure/high-temperature synthesis. Journal of Solid State Chemistry, 2007, 180, 1595-1600.	1.4	23
15	La₃B₆O₁₃(OH): The First Acentric Highâ€Pressure Borate Displaying Edgeâ€sharing BO₄ Tetrahedra. Chemistry - A European Journal, 2020, 26, 6851-6861.	1.7	23
16	Verbeekite, the Long-Unknown Crystal Structure of Monoclinic PdSe₂. Inorganic Chemistry, 2017, 56, 5885-5891.	1.9	21
17	High-pressure / High-temperature Studies on the Stannides RENiSn (RE = Ce, Pr, Nd, Sm) and REPdSn (RE) Tj ETQq1 1 0.784314 rgBT /O 695-706.	0.3	20
18	Oxonium Ions Substituting Cesium Ions in the Structure of the New Highâ€Pressure Borate HPâ€Cs_{1â^'x}(H₃O)_xB₃O₅ (x=0.5â€“0.7). Chemistry - A European Journal, 2014, 20, 4316-4323.	1.7	20

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19	Crystal Structures of the High-Pressure Palladium Dichalcogenides Pd0.94(1)S2and Pd0.88(1)Se2Comprising Exceptional PdIVOxidation States. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1415-1423.	0.6	18
20	Dimorphic ErAgSn and TmAgSn â€“ Highâ€Pressure and Highâ€Temperature Driven Phase Transitions. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 1551-1555.	0.6	16
21	Highâ€Pressure Synthesis and Characterization of New Actinide Borates, <i>An</i>B₄O₈ (<i>An</i>=Th, U). Chemistry - A European Journal, 2013, 19, 15985-15992.	1.7	15
22	Synthesis and Characterization of the New Strontium Borogermanate Sr_{3â€“<i>x</i>/2}B_{2â€“<i>x</i>}Ge_{4+<i>x</i>}O₁₄ (<i>x</i> =) Tj ETQq0 0 0 rgBT /O	1.9	15
23	High-pressure high-temperature crystal growth of equiatomic rare earth stannides RENiSn and REPdSn. Journal of Solid State Chemistry, 2016, 236, 138-146.	1.4	15
24	Dimorphism in the REPdZn series. Intermetallics, 2012, 20, 110-114.	1.8	13
25	Multianvil high-pressure/high-temperature synthesis, crystal structure, and thermal behaviour of the rare-earth borogermanate Ce6(BO4)2Ge9O22. Journal of Solid State Chemistry, 2006, 179, 370-377.	1.4	12
26	The High-Temperature Phases HT-YPtSn, HT-GdPtSn, and HT-TbPtSn. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 869-872.	0.6	12
27	NbOsSi and TaOsSi â€“ Two new superconducting ternary osmium silicides. Solid State Sciences, 2017, 68, 32-38.	1.5	12
28	Li₃Co_{1.06(1)}TeO₆: synthesis, single-crystal structure and physical properties of a new tellurate compound with Co^{II}/Co^{III}mixed valence and orthogonally oriented Li-ion channels. Dalton Transactions, 2017, 46, 12663-12674.	1.6	12
29	Synthesis, Structure and Properties of the High-pressure Modifications of the Ternary Compounds REPtSn (RE = La, Pr, Sm). Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2006, 61, 1477-1484.	0.3	11
30	Coexistence of Two Different Distorted Octahedral [MnF₆]^{3â^'} Sites in K₃[MnF₆]: Manifestation in Spectroscopy and Magnetism. Chemistry - A European Journal, 2021, 27, 9801-9813.	1.7	11
31	K3WOF7:Mn4+ â€' A red oxyfluoride phosphor. Journal of Fluorine Chemistry, 2019, 226, 109356.	0.9	10
32	Effects of Gigapascal Level Pressure on Protein Structure and Function. Journal of Physical Chemistry B, 2012, 116, 1100-1110.	1.2	9
33	High-pressure investigations of lanthanoid oxoarsenates: I. Single crystals of scheelite-type <i>Ln</i>[AsO₄] phases with <i>Ln</i> = Laâ€“Nd from monazite-type precursors. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 439-445.	0.3	9
34	Spin glass anomalies in HP-NdPtSnâ€"structural, magnetic and specific heat studies. Solid State Sciences, 2006, 8, 1258-1265.	1.5	8
35	The High-temperature Modification of LuAgSn and High-pressure High-temperature Experiments on DyAgSn, HoAgSn, and YbAgSn. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2008, 63, 193-198.	0.3	8
36	Dimorphic cerium(III) oxoarsenate(III) Ce[AsO 3]. Solid State Sciences, 2014, 37, 164-169.	1.5	8

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37	The Highâ€Pressure Polymorph of Ca₄Te₅O₁₄ and the Mixedâ€Valent Compound Ca₁₃Te^{VI}_{2/3}Te^{IV}_{3.75}O₁₅(BO₃)₈<sub>4< European Journal of Inorganic Chemistry, 2016, 2016, 3574-3579.	1.0	8
38	Crystal Structure and Properties of a UVâ€Transparent Highâ€Pressure Polymorph of Mg₃TeO₆ with Second Harmonic Generation Response. European Journal of Inorganic Chemistry, 2019, 2019, 4668-4676.	1.0	8
39	La[AsO₃]: Lanthanum Oxoarsenate(III) with K[ClO₃]â€Type Crystal Structure. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1119-1122.	0.6	7
40	Novel Narrow Band Cyanâ€Green Phosphor LiK₇[Li₃SiO₄]₈:Eu²⁺ with Enhanced Suppression of Second Broad Band Emission. European Journal of Inorganic Chemistry, 2021, 2021, 4470-4481.	1.0	7
41	High-pressure phases of Tb2Ni2Sn and Dy2Ni2Sn. Monatshefte FÃ¼r Chemie, 2014, 145, 863-867.	0.9	6
42	A ZrNiAl related high-pressure modification of CeRuSn. Dalton Transactions, 2016, 45, 14216-14229.	1.6	6
43	High-pressure Synthesis and Characterization of the Rare-earth Borate La4B10O21. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 0, 67b, 605-613.	0.3	6
44	Hochdrucksynthese und Kristallstruktur des neuen Borates Pr4B10O21. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 2079-2079.	0.6	5
45	Synthesis and characterization of the lead borate Pb₆B₁₂O₂₁(OH)₆. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 925-933.	0.3	5
46	Multianvil high-pressure/high-temperature synthesis and characterization of magnetoelectric HP-Co₃TeO₆. Journal of Materials Chemistry C, 2021, 9, 5486-5496.	2.7	5
47	An organometallic chimie douce approach to new RexW1â€“xO3 phases. Chemical Communications, 2005, , 4071.	2.2	4
48	High-pressure synthesis and crystal structure of the mixed valent iron borate Fe8B15O28(OH)8. Solid State Sciences, 2013, 25, 149-156.	1.5	4
49	Ce4Ag3Ge4O0.5 â€“ chains of oxygen-centered [OCe2Ce2/2] tetrahedra embedded in a [CeAg3Ge4] intermetallic matrix. Dalton Transactions, 2013, 42, 15207.	1.6	4
50	Highâ€Pressure Synthesis and Singleâ€Crystal Structure Elucidation of the Indium Oxideâ€Borate In₄O₂B₂O₇. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 2103-2109.	0.6	4
51	Synthesis and characterization of the first hydrothermally synthesized tin borate Sn2B3O6(OH). Journal of Solid State Chemistry, 2018, 258, 410-415.	1.4	4
52	The Crystal Structure of MnF₃ Revisited. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 882-888.	0.6	4
53	High-Pressure Synthesis of the Acentric Borate DyB5 O8 (OH)2. European Journal of Inorganic Chemistry, 2020, 2020, 370-376.	1.0	4
54	Crystal structure reâ€determination, spectroscopy, and photoluminescence of Ï€ â€²YBO 3 :Eu 3+. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .	0.6	4

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55	One-dimensional Gold Clusters in HP-Ce7Au13+xGe10â€“x. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2013, 68, 871-876.	0.3	3
56	Hydrothermal synthesis of a new lead(II) borate (Pb₄O)Pb₂B₆O₁₄-II. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 1233-1243.	0.3	3
57	Synthesis and characterization of the new tin borate SnB₈O₁₁(OH)₄. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 337-348.	0.3	3
58	High-pressure synthesis and crystal structure of the samarium meta-oxoborate Î³-Sm(BO₂)₃. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 589-595.	0.3	3
59	High-pressure Synthesis and Characterization of the Rare-earth Borate La₄B₁₀O₂₁. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2012, 67, 605-613.	0.3	2
60	High-pressure/high-temperature synthesis and characterization of the first palladium or platinum containing lithium transition-metal sulfides Li2M3S4 (M=Pd, Pt). Journal of Solid State Chemistry, 2016, 242, 87-95.	1.4	2
61	Single-crystal structure of pyrite-type HP-Pd_{0.84(1)}Se₂ prepared by high-pressure/ high-temperature synthesis. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 979-985.	0.3	2
62	High-Pressure Synthesis of a Gallium Oxonitride with a Spinel-Type Structure.. ChemInform, 2005, 36, no.	0.1	1
63	Li₂Pt₃Se₄: a new lithium platinum selenide with jaguÃ©ite-type crystal structure by multianvil high-pressure/high-temperature synthesis. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 1095-1104.	0.3	1
64	Synthesis and characterization of the novel rare earth orthophosphates Y0.5Er0.5PO4 and Y0.5Yb0.5PO4. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 65-70.	0.3	1
65	The high-pressure phase of CePtAl. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2017, 72, 77-82.	0.3	1
66	UF₄ and the Highâ€Pressure Polymorph HPâ€UF₄. Chemistry - A European Journal, 2019, 25, 7366-7374.	1.7	1
67	RhSn₃ and the Modifications of RhSn₄ â€“ Structure and ¹¹⁹Sn MÃ¶ssbauer spectroscopic characterization. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2019, 74, 203-209.	0.3	1
68	Single-Crystal Structure of HP-Sc2TeO6 Prepared by High-Pressure/High-Temperature Synthesis. Crystals, 2021, 11, 1554.	1.0	1
69	Multianvil High-Pressure/High-Temperature Preparation, Crystal Structure, and Properties of the New Oxoborate Î²-ZnB4O7.. ChemInform, 2003, 34, no.	0.1	0
70	High-Temperature Synthesis, Crystal Structure, and Properties of the New Sodium Rare-Earth Oxide Borates Na2Ln2(BO3)2O (Ln: Dy, Ho).. ChemInform, 2005, 36, no.	0.1	0
71	An Organometallic Chimie Douce Approach to New RexW1-xO3 Phases.. ChemInform, 2005, 36, no.	0.1	0
72	The High-Pressure Modification of CePtSn â€” Synthesis, Structure, and Magnetic Properties.. ChemInform, 2005, 36, no.	0.1	0

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73	High-pressure high-temperature decomposition of CeCoGa to the Laves phases CeCo_{0.58}Ga_{1.42}, CeCo_{0.72}Ga_{1.28}, and CeCo₂. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 1071-1075.	0.3	0
74	GÃ©rard Demazeau, 07.06.1943â€“03.11.2017. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 1-2.	0.3	0
75	Trendbericht FestkÃ¶rperchemie. Nachrichten Aus Der Chemie, 2019, 67, 40-51.	0.0	0
76	Serendipitous formation and characterization of K₂[Pd(NO₃)₄]Â·2HNO₃. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2019, 74, 381-387.	0.3	0
77	High-Pressure Synthesis, Crystal Structure, and Photoluminescence Properties of Î²-Y2B4O9:Eu3+. Inorganics, 2019, 7, 136.	1.2	0