

# Gunter Heymann

## List of Publications by Year in descending order

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77  
papers

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citations

430754

18  
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477173

29  
g-index

100  
all docs

100  
docs citations

100  
times ranked

1068  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coexistence of Two Different Distorted Octahedral $[\text{MnF}_6]^{3-}$ Sites in $\text{K}_3[\text{MnF}_6]$ : Manifestation in Spectroscopy and Magnetism. Chemistry - A European Journal, 2021, 27, 9801-9813.	1.7	11
2	Novel Narrow Band Cyanâ€Green Phosphor $\text{Li}_7[\text{Li}_3\text{SiO}_4]_8\text{Eu}^{2+}$ with Enhanced Suppression of Second Broad Band Emission. European Journal of Inorganic Chemistry, 2021, 2021, 4470-4481.	1.0	7
3	Multianvil high-pressure/high-temperature synthesis and characterization of magnetoelectric $\text{HP-Co}_3\text{TeO}_6$ . Journal of Materials Chemistry C, 2021, 9, 5486-5496.	2.7	5
4	Single-Crystal Structure of $\text{HP-Sc}_2\text{TeO}_6$ Prepared by High-Pressure/High-Temperature Synthesis. Crystals, 2021, 11, 1554.	1.0	1
5	The Crystal Structure of $\text{MnF}_3$ Revisited. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 882-888.	0.6	4
6	$\text{La}_3\text{B}_6\text{O}_{13}(\text{OH})$ : The First Acentric Highâ€Pressure Borate Displaying Edgeâ€Sharing $\text{BO}_4$ Tetrahedra. Chemistry - A European Journal, 2020, 26, 6851-6861.	1.7	23
7	High-Pressure Synthesis of the Acentric Borate $\text{Dy}_5\text{O}_8(\text{OH})_2$ . European Journal of Inorganic Chemistry, 2020, 2020, 370-376.	1.0	4
8	High-pressure synthesis and crystal structure of the samarium <i>meta</i> -oxoborate $\text{Li}^3\text{-Sm}(\text{BO}_2)_3$ . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 589-595.	0.3	3
9	$\text{K}_3\text{WOF}_7\text{:Mn}^{4+}$ â€ A red oxyfluoride phosphor. Journal of Fluorine Chemistry, 2019, 226, 109356.	0.9	10
10	Trendbericht FestkÃrperchemie. Nachrichten Aus Der Chemie, 2019, 67, 40-51.	0.0	0
11	Crystal Structure and Properties of a UVâ€Transparent Highâ€Pressure Polymorph of $\text{Mg}_3\text{TeO}_6$ with Second Harmonic Generation Response. European Journal of Inorganic Chemistry, 2019, 2019, 4668-4676.	1.0	8
12	A new 2D high-pressure phase of $\text{PdSe}_2$ with high-mobility transport anisotropy for photovoltaic applications. Journal of Materials Chemistry C, 2019, 7, 2096-2105.	2.7	70
13	Ferroelastic lattice rotation and band-gap engineering in quasi 2D layered-structure $\text{PdSe}_2$ under uniaxial stress. Nanoscale, 2019, 11, 12317-12325.	2.8	32
14	Serendipitous formation and characterization of $\text{K}_2[\text{Pd}(\text{NO}_3)_4] \cdot 2\text{HNO}_3$ . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2019, 74, 381-387.	0.3	0
15	$\text{UF}_4$ and the Highâ€Pressure Polymorph $\text{HP-UF}_4$ . Chemistry - A European Journal, 2019, 25, 7366-7374.	1.7	1
16	High-Pressure Synthesis, Crystal Structure, and Photoluminescence Properties of $\text{Y}_2\text{B}_4\text{O}_9\text{:Eu}^{3+}$ . Inorganics, 2019, 7, 136.	1.2	0
17	$\text{RhSn}_3$ and the Modifications of $\text{RhSn}_4$ â€ Structure and $^{119}\text{Sn}$ MÃssbauer spectroscopic characterization. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2019, 74, 203-209.	0.3	1
18	GÃrard Demazeau, 07.06.1943â€03.11.2017. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 1-2.	0.3	0

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19	Synthesis and characterization of the new tin borate $\text{SnB}_8\text{O}_{11}(\text{OH})_4$ . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 337-348.	0.3	3
20	Synthesis and characterization of the first hydrothermally synthesized tin borate $\text{Sn}_2\text{B}_3\text{O}_6(\text{OH})$ . Journal of Solid State Chemistry, 2018, 258, 410-415.	1.4	4
21	Single-crystal structure of pyrite-type $\text{HP-Pd}_{0.84(1)}\text{Se}_2$ prepared by high-pressure/ high-temperature synthesis. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 979-985.	0.3	2
22	The high-pressure phase of $\text{CePtAl}$ . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2017, 72, 77-82.	0.3	1
23	$\text{NbOsSi}$ and $\text{TaOsSi}$ – Two new superconducting ternary osmium silicides. Solid State Sciences, 2017, 68, 32-38.	1.5	12
24	Verbeekite, the Long-Unknown Crystal Structure of Monoclinic $\text{PdSe}_2$ . Inorganic Chemistry, 2017, 56, 5885-5891.	1.9	21
25	Narrow-Band Red Emission in the Nitridolithoaluminate $\text{Sr}_4[\text{LiAl}_{11}\text{N}_{14}]:\text{Eu}^{2+}$ . Chemistry of Materials, 2017, 29, 1204-1209.	3.2	64
26	$\text{Li}_3\text{Co}_{1.06(1)}\text{TeO}_6$ : synthesis, single-crystal structure and physical properties of a new tellurate compound with $\text{Co}^{\text{II}}/\text{Co}^{\text{III}}$ mixed valence and orthogonally oriented Li-ion channels. Dalton Transactions, 2017, 46, 12663-12674.	1.6	12
27	Crystal Structures of the High-Pressure Palladium Dichalcogenides $\text{Pd}_{0.94(1)}\text{S}_2$ and $\text{Pd}_{0.88(1)}\text{Se}_2$ Comprising Exceptional PdIV Oxidation States. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1415-1423.	0.6	18
28	High-Pressure Synthesis and Single-Crystal Structure Elucidation of the Indium Oxide-Borate $\text{In}_4\text{O}_2\text{B}_2\text{O}_7$ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 2103-2109.	0.6	4
29	Synthesis and characterization of the lead borate $\text{Pb}_6\text{B}_{12}\text{O}_{21}(\text{OH})_6$ . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 925-933.	0.3	5
30	$\text{Li}_2\text{Pt}_3\text{Se}_4$ : a new lithium platinum selenide with jaggedite-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
31	Hydrothermal synthesis of a new lead(II) borate $(\text{Pb}_4\text{O})\text{Pb}_2\text{B}_6\text{O}_{14}$ -II. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 1233-1243.	0.3	3
32	High-pressure investigations of lanthanoid oxoarsenates: I. Single crystals of scheelite-type $\text{Ln}[\text{AsO}_4]$ phases with $\text{Ln} = \text{La} - \text{Nd}$ from monazite-type precursors. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 439-445.	0.3	9
33	The High-Pressure Polymorph of $\text{Ca}_4\text{Te}_5\text{O}_{14}$ and the Mixed-Valent Compound $\text{Ca}_{13}\text{Te}_{VI}\text{Te}_{IV}^{2/3}\text{Te}_{IV}^{3/4}\text{O}_{15}(\text{BO}_{3.0})_8$ . European Journal of Inorganic Chemistry, 2016, 2016, 3574-3579.		
34	A $\text{ZrNiAl}$ related high-pressure modification of $\text{CeRuSn}$ . Dalton Transactions, 2016, 45, 14216-14229.	1.6	6
35	High-pressure high-temperature decomposition of $\text{CeCoGa}$ to the Laves phases $\text{CeCo}_{0.58}\text{Ga}_{1.42}$ , $\text{CeCo}_{0.72}\text{Ga}_{1.28}$ , and $\text{CeCo}_2$ . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 1071-1075.	0.3	0
36	High-pressure/high-temperature synthesis and characterization of the first palladium or platinum containing lithium transition-metal sulfides $\text{Li}_2\text{M}_3\text{S}_4$ ( $\text{M} = \text{Pd}, \text{Pt}$ ). Journal of Solid State Chemistry, 2016, 242, 87-95.	1.4	2

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37	Synthesis and characterization of the novel rare earth orthophosphates $Y_{0.5}Er_{0.5}PO_4$ and $Y_{0.5}Yb_{0.5}PO_4$ . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2016, 71, 65-70.	0.3	1
38	High-pressure high-temperature crystal growth of equiatomic rare earth stannides $RENiSn$ and $REPdSn$ . <i>Journal of Solid State Chemistry</i> , 2016, 236, 138-146.	1.4	15
39	Oxonium Ions Substituting Cesium Ions in the Structure of the New High-Pressure Borate $HPaCs_{1-x}(H_3O)_xB_3O_5$ ( $0.5 \leq x \leq 0.7$ ). <i>Chemistry - A European Journal</i> , 2014, 20, 4316-4323.	1.7	20
40	Dimorphic cerium(III) oxoarsenate(III) $Ce[AsO_3]$ . <i>Solid State Sciences</i> , 2014, 37, 164-169.	1.5	8
41	High-pressure phases of $Tb_2Ni_2Sn$ and $Dy_2Ni_2Sn$ . <i>Monatshefte Für Chemie</i> , 2014, 145, 863-867.	0.9	6
42	Synthesis and Characterization of the New Strontium Borogermanate $Sr_3Al_2B_2Ge_4O_{14}$ ( $x = 1$ ). <i>Journal of Solid State Chemistry</i> , 2014, 236, 138-146.	0.6	7
43	High-pressure synthesis and crystal structure of the mixed valent iron borate $Fe_8B_{15}O_{28}(OH)_8$ . <i>Solid State Sciences</i> , 2013, 25, 149-156.	1.5	4
44	$Ce_4Ag_3Ge_4O_{15}$ chains of oxygen-centered $[OCe_2Ce_2/2]$ tetrahedra embedded in a $[CeAg_3Ge_4]$ intermetallic matrix. <i>Dalton Transactions</i> , 2013, 42, 15207.	1.6	4
45	High-Pressure Synthesis and Characterization of New Actinide Borates, $An_4B_4O_8$ ( $An = Th, U$ ). <i>Chemistry - A European Journal</i> , 2013, 19, 15985-15992.	1.7	15
46	One-dimensional Gold Clusters in $HP-Ce_7Au_{13+x}Ge_{10-x}$ . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2013, 68, 871-876.	0.3	3
47	High-pressure Synthesis and Characterization of the Rare-earth Borate $La_4B_{10}O_{21}$ . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2012, 67, 605-613.	0.3	2
48	Effects of Gigapascal Level Pressure on Protein Structure and Function. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1100-1110.	1.2	9
49	Dimorphism in the $REPdZn$ series. <i>Intermetallics</i> , 2012, 20, 110-114.	1.8	13
50	$La[AsO_3]$ : Lanthanum Oxoarsenate(III) with $K[ClO_3]$ -type Crystal Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 1119-1122.	0.6	7
51	Crystal Structures, Phase-Transition, and Photoluminescence of Rare Earth Carbodiimides. <i>Inorganic Chemistry</i> , 2008, 47, 10455-10460.	1.9	54
52	High-pressure / High-temperature Studies on the Stannides $RENiSn$ ( $RE = Ce, Pr, Nd, Sm$ ) and $REPdSn$ ( $RE = Ce, Pr, Nd, Sm$ ). <i>Journal of Solid State Chemistry</i> , 2008, 236, 695-706.	0.3	20
53	The High-temperature Modification of $LuAgSn$ and High-pressure High-temperature Experiments on $DyAgSn$ , $HoAgSn$ , and $YbAgSn$ . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2008, 63, 193-198.	0.3	8
54	High-Pressure Syntheses, Crystal Structures, And Thermal Behaviour Of $Re_2(Bo_2)_3$ ( $Re = Nd, Sm, Gd$ ). <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2007, 62, 765-770.	0.3	23

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55	High-Pressure Synthesis, Crystal Structure, And Properties Of $\hat{\Gamma}$ -Ce(Bo <sub>2</sub> ) <sub>3</sub> . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2007, 62, 759-764.	0.3	29
56	Microstrain Sensitivity of Orbital and Electronic Phase Separation in SrCrO <sub>3</sub> . Physical Review Letters, 2007, 99, 255701.	2.9	88
57	Synthesis, Structure, and Properties of the High-Pressure Modification of CePdSn $\hat{\Gamma}$ a 5 K Antiferromagnet. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 77-82.	0.6	26
58	The High-Temperature Phases HT-YPtSn, HT-GdPtSn, and HT-TbPtSn. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 869-872.	0.6	12
59	Dimorphic ErAgSn and TmAgSn $\hat{\Gamma}$ High-Pressure and High-Temperature Driven Phase Transitions. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 1551-1555.	0.6	16
60	Pr <sub>4</sub> B <sub>10</sub> O <sub>21</sub> : 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
61	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
62	Hochdrucksynthese und Kristallstruktur des neuen Borates Pr <sub>4</sub> B <sub>10</sub> O <sub>21</sub> . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 2079-2079.	0.6	5
63	Multianvil high-pressure/high-temperature synthesis, crystal structure, and thermal behaviour of the rare-earth borogermanate Ce <sub>6</sub> (BO <sub>4</sub> ) <sub>2</sub> Ge <sub>9</sub> O <sub>22</sub> . Journal of Solid State Chemistry, 2006, 179, 370-377.	1.4	12
64	$\hat{\Gamma}$ -La(BO <sub>2</sub> ) <sub>3</sub> ( $\hat{\Gamma}$ -LaB <sub>3</sub> O <sub>6</sub> ): A new high-pressure modification of lanthanum meta-oxoborate. Solid State Sciences, 2006, 8, 821-829.	1.5	45
65	Spin glass anomalies in HP-NdPtSn $\hat{\Gamma}$ structural, magnetic and specific heat studies. Solid State Sciences, 2006, 8, 1258-1265.	1.5	8
66	High-Temperature Synthesis, Crystal Structure, and Properties of the New Sodium Rare-Earth Oxide Borates Na <sub>2</sub> Ln <sub>2</sub> (BO <sub>3</sub> ) <sub>2</sub> O (Ln: Dy, Ho).. ChemInform, 2005, 36, no.	0.1	0
67	An Organometallic Chimie Douce Approach to New RexW <sub>1-x</sub> O <sub>3</sub> Phases.. ChemInform, 2005, 36, no.	0.1	0
68	The High-Pressure Modification of CePtSn $\hat{\Gamma}$ Synthesis, Structure, and Magnetic Properties.. ChemInform, 2005, 36, no.	0.1	0
69	High-Pressure Synthesis of a Gallium Oxonitride with a Spinel-Type Structure.. ChemInform, 2005, 36, no.	0.1	1
70	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
71	The High-Pressure Modification of CePtSn $\hat{\Gamma}$ Synthesis, Structure, and Magnetic Properties. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2005, 60, 821-830.	0.3	34
72	An organometallic chimie douce approach to new RexW <sub>1-x</sub> O <sub>3</sub> phases. Chemical Communications, 2005, 4071.	2.2	4

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73	Multianvil high-pressure/high-temperature preparation, crystal structure, and properties of the new oxoborate $\text{Y}^{2+}\text{ZnB}_4\text{O}_7$ . <i>Solid State Sciences</i> , 2003, 5, 281-289.	1.5	66
74	Multianvil High-Pressure/High-Temperature Preparation, Crystal Structure, and Properties of the New Oxoborate $\text{Y}^{2+}\text{ZnB}_4\text{O}_7$ . <i>ChemInform</i> , 2003, 34, no.	0.1	0
75	High-pressure preparation, crystal structure, and properties of the new rare-earth oxoborate $\text{Y}^{2+}\text{Dy}_2\text{B}_4\text{O}_9$ . <i>Journal of Solid State Chemistry</i> , 2003, 170, 320-329.	1.4	44
76	Crystal structure reâ€determination, spectroscopy, and photoluminescence of $\text{YBO}_3:\text{Eu}^{3+}$ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 0, , .	0.6	4
77	High-pressure Synthesis and Characterization of the Rare-earth Borate $\text{La}_4\text{B}_{10}\text{O}_{21}$ . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 0, 67b, 605-613.	0.3	6