

Constantin Hoch

List of Publications by Year in descending order

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papers

949
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#	ARTICLE	IF	CITATIONS
1	Synthesis and crystal structure of the tetrelides A12M17 (A=Na, K, Rb, Cs; M=Si, Ge, Sn) and A4Pb9 (A=K,) Tj ETQql _{5.5} 0.784314 rgBT /C	0.78	14
2	Lesson Learned from NMR: Characterization and Ionic Conductivity of LGPS-like Li ₇ Si ₈ . Chemistry of Materials, 2019, 31, 1280-1288.	6.7	57
3	Tetrapotassium nonastannide, K ₄ Sn ₉ . Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, i45-i46.	0.4	41
4	Na ₁₁ Hg ₅₂ : Complexity in a Polar Metal. Angewandte Chemie - International Edition, 2012, 51, 3262-3265.	13.8	28
5	Polymorphism and Fast Potassiumâ€¢ion Conduction in the T ₅ Supertetrahedral Phosphidosilicate KSi ₂ P ₃ . Angewandte Chemie - International Edition, 2021, 60, 13641-13646.	13.8	27
6	Neue Oxogermanate(IV) der schweren Alkalimetalle. Synthesen und Kristallstrukturen/New Oxogermanates(IV) of the Heavy Alkaline Metals. Preparation and Crystal Structure. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2001, 56, 1245-1256.	0.7	23
7	Alkalimetall-Stannid-Silicate und -Germanate: â€˜Doppelsalzeâ€™ mit dem Zintl-Anion [Sn ₄]â€”Professor Welf Bronger zum 70. Geburtstag gewidmet. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2002, 628, 1541.	1.2	23
8	Drei neue Ethaniodide des Lanthans: La ₅ I ₉ (C ₂), La ₆ I ₁₀ (C ₂) und La ₁₀ I ₁₅ (C ₂) ₂ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 1423-1429.	1.2	23
9	A 45 Sc-NMR and DFT calculation study of crystalline scandium compounds. Solid State Sciences, 2016, 51, 1-7.	3.2	22
10	Neue binÃAre Stannide A ₅ Sn ₈₂ (A = K, Cs) mit Sn ₄₄ â€”- und Sn ₉₄ â€”-Cluster-Anionen. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2003, 629, 2391-2397.	1.2	21
11	Electrochemical Synthesis and Crystal Structure of the Organic Ion Intercalated Superconductor (TMA) _{0.5} Fe ₂ Se ₂ with <i>i</i> T _{<i>i</i>} c = 43 K. Journal of the American Chemical Society, 2021, 143, 3043-3048.	13.7	21
12	Bad metal behaviour in the new Hg-rich amalgam $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ altimg}=\text{"si55.gif"} \text{ overflow}=\text{"scroll"} \text{ <mml:mrow}>\text{<mml:msub}<\text{mml:mrow}>\text{<mml:mtext>KHg</mml:mtext>} \text{ </mml:mrow}>\text{<mml:mrow}>\text{<mml:math}\text{ polar metallic bonding. Journal of Alloys and Compounds, 2015, 618, 299-304.}$	20	20
13	Double-Icosahedral Li Clusters in a New Binary Compound Ba ₁₉ Li ₄₄ :â€‰ A Reinvestigation of the Baâ€™Li Phase Diagram. Inorganic Chemistry, 2007, 46, 5425-5428.	4.0	19
14	Icosahedral Li clusters in the structures of Li _{33.3} Ba _{13.1} Ca ₃ and Li _{18.9} Na _{8.3} Ba _{15.3} . Journal of Solid State Chemistry, 2007, 180, 3302-3309.	2.9	19
15	Cs ₂ Hg ₂₇ , das quecksilberreichste Amalgam â€“ ein naher Verwandter der Bergmannâ€¢Phasen. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 853-856.	1.2	19
16	Finding the Right Blend: Interplay Between Structure and Sodium Ion Conductivity in the System Na ₅ AlS ₄ â€“Na ₄ SiS ₄ . Frontiers in Chemistry, 2020, 8, 90.	3.6	19
17	Electrococrystallization: A Synthetic Method for Intermetallic Phases with Polar Metalâ€“Metal Bonding. Inorganic Chemistry, 2016, 55, 11551-11559. Alkali Metal Tetrelideâ€“Tetrelates: â€œDouble Saltsâ€•With [E ₄]â€” Zintl Anions (E=Si, Ge) and the First Dimeric Cyclotrisilicate Ions [Si ₆ O ₁₇] ₁₀ aâ€‰ This work was supported by the Deutsche Forschungsgemeinschaft, the Verband der Chemischen Industrie, the EidgenÃ¶ssische Technische Hochschule ZÃ¼rich, the Bundesministerium fÃ¼r Forschung und Technik, and the Adolf-Messer-Stiftung. T.F. and S.H. thank Prof. Dr. D. GÃ¼nther for the LA-ICP-MS and Dr. V. Shklover (both of the ETH ZÃ¼rich) for the EDX measurements, C.H. and. Angewandte Chemie - International Editi	4.0	18
18	13.8	17	

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19	EYPHKAMEN: Ln-Oktaedertripel in Ln ₁₄ (C ₂) ₃ I ₂₀ mit Ln = La, Ce. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 1661-1670.	1.2	17
20	M₂PO₃N (M = Ca, Sr): <i>ortho</i>-Oxonitridophosphates with I ² -K₂SO₄ Structure Type. Inorganic Chemistry, 2016, 55, 974-982.	4.0	17
21	Alkaline Metal Stannide-Stannates: Double Salts with Zintl Sn ₄₄ ⁺ and Stannate SnO ₃₄ ⁴⁻ Anions. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2003, 629, 1661-1672.	1.2	14
22	The Mercury-richest Europium Amalgam Eu ₁₀ Hg ₅₅ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 537-542.	1.2	14
23	Description of Anhydrous (Black) Dioptase as a <i>S</i> = 1/2 Uniform Antiferromagnetic Chain System. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 54-61.	1.2	13
24	A Five-Membered Ru ₅ Ring in a Hexagonal La ₁₄ Cage: The La ₁₄ Cl ₂₀ Ru ₅ Structure. Journal of the American Chemical Society, 2012, 134, 5026-5028.	13.7	13
25	Structural, electronic and magnetic properties of layered REB ₂ C compounds (RE=Dy, Tm, Lu). Journal of Solid State Chemistry, 2012, 191, 121-128.	2.9	12
26	The structure type and its relation to some complex amalgam structures. Journal of Alloys and Compounds, 2015, 618, 326-335.	5.5	12
27	Syntheses and Crystal Structures of Sr ₇ H ₁₂ X ₂ (X = Cl, Br). Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2008, 63, 513-518.	0.7	11
28	Suboxides with Complex Anions: The Suboxoindate Cs ₉ InO ₄ . Angewandte Chemie - International Edition, 2009, 48, 2415-2417.	13.8	11
29	Tetramethylammoniumamalgam, [N(CH ₃) ₄]Hg ₈ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 2288-2294.	1.2	10
30	Redetermination of [EuCl ₂ (H ₂ O) ₆]Cl. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, i27-i27.	0.2	10
31	Dysprosiumcarbidiodide Dy ₁₀ (C ₂) ₂ I ₁₈ , Dy ₄ (C ₂)I ₆ und Dy ₁₂ (C ₂) ₃ I ₁₇ / Dysprosium Carbide Iodides Dy ₁₀ (C ₂) ₂ I ₁₈ , Dy ₄ (C ₂)I ₆ , and Dy ₁₂ (C ₂) ₃ I ₁₇ . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2007, 62, 148-154.	0.7	9
32	Halogenide der Seltenerdmetalle Ln ₄ X ₅ Z. Teil 2: Eine orthorhombische Verknüpfungsvarianteo-Ln ₄ X ₅ Z. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 498-502.	1.2	9
33	Crystal Structures of New Alkali Metal-rich Oxometallates: Rubidium Aluminate Tetrahydroxide, Rb ₉ (AlO ₄)(OH) ₄ , Rubidium Orthogallate, Rb ₅ GaO ₄ , Cesiumbis-Chromate(IV) Oxide, Cs ₁₀ (CrO ₄) ₂ O, and Cesium Diindate, Cs ₈ In ₂ O ₇ . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2010, 65, 1416-1426.	0.7	9
34	On the structure of unsolvated free-base 5,10,15,20-tetra(3-pyridyl)porphyrin. Journal of Molecular Structure, 2011, 985, 307-315.	3.6	9
35	Oxonitridosilicate Oxides <i>RE</i> ₂₆ Ba ₆ [Si ₂₂ O ₁₉ N ₃₆]O ₁₆ :Eu ²⁺ (<i>RE</i> = Y, Tb) with a Unique Layered Structure and Orange-Red Luminescence for <i>RE</i> = Y. Inorganic Chemistry, 2018, 57, 2242-2248.	4.0	9
36	NMR interaction tensors of 51V and 207Pb in vanadinite, Pb ₅ (VO ₄) ₃ Cl, determined from DFT calculations and single-crystal NMR measurements, using only one general rotation axis. Solid State Nuclear Magnetic Resonance, 2018, 89, 11-20.	2.3	9

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37	La ₆ Br ₁₀ Fe: A La ₆ Fe Octahedron with a Mixed M ₆ X ₁₂ /M ₆ X ₈ Type Environment. Inorganic Chemistry, 2008, 47, 2356-2361.	4.0	8
38	Die Suboxometallate A ₉ MO ₄ (A = Rb, Cs; M = Al, Ga, In, Fe, Sc). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 1777-1782.	1.2	8
39	Facile One-Step Syntheses of Several Complex Ionic Lithium Gallates from LiGa as Intermetallic Precursors. Chemistry of Materials, 2020, 32, 866-873.	6.7	8
40	La ₆ (C ₂) ₃ Cl ₄ und La ₈ (C ₂) ₅ Cl ₄ : Schichten und KanÄle aus La ₆ (C ₂)-Clustern. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 239-245.	1.2	7
41	Gewellt und eben - La ₆ (C ₂)-Oktaederschichten in Lanthancarbiddchloriden. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 2765-2776.	1.2	7
42	Structural Diversity of Metallosupramolecular Assemblies from Cu(phen) ²⁺ (phen =) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 Chemie, 2011, 637, 1545-1554.	1.2	7
43	The simplest representative of a complex series: the Hg-rich amalgam Yb ₁₁ Hg ₅₄ . Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 557-565.	0.8	7
44	Determination of the ³¹ P and ²⁰⁷ Pb Chemical Shift Tensors in Pyromorphite, Pb ₅ (PO ₄) ₃ Cl, by Single- ³¹ P NMR Measurements and DFT Calculations. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1635-1641.	1.2	7
45	Sm ₂ O ₂ I â€“ A New Mixed-Valence Samarium(II,III) Oxide Halide. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 2385-2388.	1.2	6
46	Seltenerdhalogenide Ln ₄ X ₅ Z. Teil 1: C und/oder C ₂ in Ln ₄ X ₅ Z. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 491-497.	1.2	6
47	A Temperature-Dependent Structural Study of <i>i</i> anti- <i>i</i> â€¢ReO ₃ â€¢ type Na ₃ N: to Distort or not to Distort?â€¢. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 94-99.	1.2	6
48	Alkali Metal Suboxometalatesâ€“Structural Chemistry between Salts and Metals. Inorganic Chemistry, 2015, 54, 7058-7064.	4.0	6
49	Structural chemistry and number theory amalgamized: crystal structure of Na ₁₁ Hg ₅₂ . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 752-767.	1.1	6
50	Cu _{9.1} Te ₄ Cl ₃ : A Thermoelectric Compound with Low Thermal and High Electrical Conductivity. Inorganic Chemistry, 2019, 58, 6222-6230.	4.0	6
51	Das Lanthaniodidethanido-La ₅ I ₉ (C ₂) â€“ Die orthorhombische Hochtemperaturmodifikation. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 641-645.	1.2	5
52	A cluster with a mixed M ₆ X ₁₂ /M ₆ X ₈ environment: The La ₆ Cl ₁₁ Co structure. Journal of Solid State Chemistry, 2009, 182, 2307-2311.	2.9	5
53	Synthesis and Structure of the Sodium Phosphidosilicate Na ₂ SiP ₂ . European Journal of Inorganic Chemistry, 2020, 2020, 617-621.	2.0	5
54	Synthesis and crystal structures of [Be(DMF) ₄]I ₂ , [Be(Pyr) ₄]I ₂ , [Be(NMP) ₄]I ₂ and [BeI ₂ (Lut) ₂]. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 509-516.	0.7	5

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55	Boron-Carbon Order and Symmetry Control: Single-Crystal X-Ray Study of SmB ₂ C ₂ . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2006, 61, 727-732.	0.7	4
56	La ₆ C ₂ Br ₉ : La-Tetraederdoppel mit endohedralen C ₄ ⁻ -Ionen / La ₆ C ₂ Br ₉ : La Bitetrahedral Clusters with Endohedral C ₄ ⁻ Ions. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2007, 62, 143-147.	0.7	4
57	The First Structure with Isolated Carbon-centered Tetrahedra of Rare-Earth Metals – the New Compound Ce ₄ CCl ₈ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 1023-1029.	1.2	4
58	SeltenerdethenidhalogenideLn ₂ n+6(C ₂)n+4X ₂ n+2: Darstellung, Struktur, Verwachsung und Verzwilligung. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 1527-1535.	1.2	4
59	Interaction of yttrium with nickel and phosphorus: Phase diagram and structural chemistry. Journal of Solid State Chemistry, 2013, 207, 87-93.	2.9	4
60	Syntheses and crystal structures of solvate complexes of alkaline earth and lanthanoid metal iodides with N,N-dimethylformamide. Zeitschrift Fur Kristallographie - Crystalline Materials, 2020, 235, 401-411.	0.8	4
61	La ₈ Br ₇ Ni ₄ : Ribbons of Ni Hexagons in Condensed La ₆ Trigonal Prisms. Inorganic Chemistry, 2008, 47, 10753-10757.	4.0	3
62	La ₃ Br ₃ Ni: Jahn-Teller Distortion in the Reduced Rare Earth Metal Halide. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, NA-NA.	1.2	3
63	The Transition Metal-rich Orthophosphate Arrojadite with Special Structural Features. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2010, 65, 1427-1433.	0.7	3
64	Density functional analysis of the electronic structure of Cs ₉ InO ₄ :Evidence for the presence of a Cs ⁻ anion. Zeitschrift FÄr Kristallographie, 2011, 226, 553-556.	1.1	3
65	Synthesis and characterization of $\text{Ba}_{6}(\text{M})_{4}\text{N}_{2}$ ($\text{M} = \text{Li}, \text{Na}$). Zeitschrift Fur Kristallographie, 2011, 226, 553-556. and $\text{Cs}_{2}\text{Cl}_{4}(\text{OH})_2\text{H}_2\text{O}$. Journal of Solid State Chemistry, 2016, 242, 162-169.	1.1	3
66	Stuck in Our Teeth? Crystal Structure of a New Copper Amalgam, Cu ₃ Hg. Crystals, 2017, 7, 352.	2.2	3
67	Ba ₆ (M) ₄ N ₂ ($\text{M} = \text{Li}, \text{Na}$). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 278-283.	1.2	3
68	Synthesis of the scandium chloride hydrates ScCl ₃ ·3H ₂ O and Sc ₂ Cl ₄ ·(OH)·2H ₂ O and their characterisation by X-ray diffraction, ²⁹ Sc NMR spectroscopy and DFT calculations. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2021, 76, 217-225.	0.7	3
69	Crystal Structure of the New Ternary Antimonide Ho ₅ GaSb ₃ . Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2009, 64, 909-914.	0.7	2
70	CsOH and its Lighter Homologues – a Comparison. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2014, 69, 1229-1236.	0.7	2
71	Chemical Twinning of Salt and Metal in the Subnitridometalates Ba ₂₃ Na ₁₁ (MN ₄) ₄ with M=V, Nb, Ta. Angewandte Chemie - International Edition, 2016, 55, 10868-10871.	13.8	2
72	The Triple Salt Sr ₁₄ [Ta ₄ N ₁₃][TaN ₄]O – A Nitridotantalate Oxide with 19-fold Rock Salt Superstructure. Inorganic Chemistry, 2017, 56, 2941-2948.	4.0	2

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73	Synthesis and Crystal Structure of Three Ga-rich Lithium Gallides, LiGa ₆ , Li ₁₁ Ga ₂₄ , and LiGa ₂ . Inorganic Chemistry, 2020, 59, 6566-6580.	4.0	2
74	The Cesium Oxide Mercuride Cs ₁₈ Hg ₈ O ₆ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .	1.2	2
75	Rubidium stannate(IV), Rb ₄ SnO ₄ . Acta Crystallographica Section C: Crystal Structure Communications, 2000, 56, 136-137.	0.4	1
76	Addendum to "Synthesis and crystal structure of the tetrelides A ₁₂ M ₁₇ (A = Na, K, Rb, Cs; M = Si, Ge, Sn) and A ₄ Pb ₉ (A = K, Rb)". Journal of Alloys and Compounds, 2004, 366, 309.	5.5	1
77	Die Aluminidiiodide La ₂₄ Al ₁₂ I ₂₁ und La ₁₀ Al ₅ I ₈ : Verbindungen mit intermetallischen La-Al-Bereichen und La-Al-Clustern. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 1233-1238.	1.2	1
78	Chemische Verzwilligung von Salz und Metall in den Subnitridometallaten Ba ₂₃ Na ₁₁ (MN ₄) ₄ mit M=V, Nb, Ta. Angewandte Chemie, 2016, 128, 11026-11030.	2.0	1
79	Compounds with Polar Metallic Bonding. Crystals, 2019, 9, 267.	2.2	1
80	Hexaaquadibromidoeuropium(III) bromide, [EuBr ₂ (H ₂ O) ₆]Br. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, i35-i35.	0.2	1
81	Crystal structure of the dodecanuclear coordination compounds [RE ₁₂ (DMF) ₂₄ (HCOO) ₈ (OH) ₁₆]I ₃ ·4DMF (RE = Eu, Nd). Australian Journal of Chemistry, 2022, , .	0.9	1
82	Alkaline Metal Stannide-Stannates: "Double Salts" with Zintl Sn ₄ -4 and Stannate SnO ₄ -3 Anions.. ChemInform, 2003, 34, no.	0.0	0
83	Synthesis and Crystal Structure of the Tetrelides A ₁₂ M ₁₇ (A: Na, K, Rb, Cs; M: Si, Ge, Sn) and A ₄ Pb ₉ (A: K,) Tj ETQq _{0.0} ^{1.1} 0.784 ₀ ¹⁴ rgBT / Overlock 1		
84	New Binary Alkaline Metal Stannides A ₅₂ Sn ₈₂ (A: K, Cs) with Sn ₄₄ - Zintl and Sn ₉₄ - Cluster Anions.. ChemInform, 2004, 35, no.	0.0	0
85	Three New Ethanide Iodides of La: La ₅ I ₉ (C ₂), La ₆ I ₁₀ (C ₂) and La ₁₀ I ₁₅ (C ₂)2.. ChemInform, 2005, 36, no.	0.0	0
86	Refinement of the crystal structure of $\hat{\beta}$ -silicon tetrabromide, $\hat{\beta}$ -SiBr ₄ , a room temperature modification. Zeitschrift Fur Kristallographie - New Crystal Structures, 2011, 226, 3-4.	0.3	0
87	Refinement of the crystal structure of $\hat{\beta}$ -silicon tetrabromide, $\hat{\beta}$ -SiBr ₄ , at 271 K. Zeitschrift Fur Kristallographie - New Crystal Structures, 2011, 226, 5-6.	0.3	0
88	Röntgentomografische Untersuchung eines kommerziellen Lithium-Ionen-Kondensators*. Materialpruefung/Materials Testing, 2014, 56, 722-727.	2.2	0
89	Laudatio Prof. Dr.-Ing. Caroline Röhr. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .	1.2	0
90	Front Cover: The Cesium Oxide Mercuride Cs ₁₈ Hg ₈ O ₆ (Z. Anorg.) Tj ETQq _{0.0} ^{1.2} 0 rgBT / Overlock 1		