

Constantin Hoch

List of Publications by Year in descending order

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papers

949
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133
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133
docs citations

133
times ranked

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#	ARTICLE	IF	CITATIONS
1	Synthesis and crystal structure of the tetrelides $A_{12}M_{17}$ (A=Na, K, Rb, Cs; M=Si, Ge, Sn) and A_4Pb_9 (A=K, Rb, Cs). <i>Journal of Solid State Chemistry</i> , 2019, 31, 1280-1288.	5.5	96
2	Lesson Learned from NMR: Characterization and Ionic Conductivity of LGPS-like Li_7SiP_8 . <i>Chemistry of Materials</i> , 2019, 31, 1280-1288.	6.7	57
3	Tetrapotassium nonastannide, K_4Sn_9 . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2002, 58, i45-i46.	0.4	41
4	$Na_{11}Hg_{52}$: Complexity in a Polar Metal. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3262-3265.	13.8	28
5	Polymorphism and Fast Potassium Ion Conduction in the T5 Supertetrahedral Phosphidosilicate KSi_2P_3 . <i>Angewandte Chemie - International Edition</i> , 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. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2001, 56, 1245-1256.	0.7	23
7	Alkalimetall-Stannid-Silicate und -Germanate: "Doppelsalze" mit dem Zintl-Anion $[Sn_4]^{4-}$ Professor Welf Bronger zum 70. Geburtstag gewidmet. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2002, 628, 1541.	1.2	23
8	Drei neue Ethaniodide des Lanthans: $La_5I_9(C_2)$, $La_6I_{10}(C_2)$ und $La_{10}I_{15}(C_2)_2$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 1423-1429.	1.2	23
9	A 45 Sc-NMR and DFT calculation study of crystalline scandium compounds. <i>Solid State Sciences</i> , 2016, 51, 1-7.	3.2	22
10	Neue binäre Stannide A_5Sn_8 (A = K, Cs) mit Sn_{44}^{2-} - und Sn_{94}^{2-} -Cluster-Anionen. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2003, 629, 2391-2397.	1.2	21
11	Electrochemical Synthesis and Crystal Structure of the Organic Ion Intercalated Superconductor (TMA) $_xFe_2Se_2$ with $T_c = 43$ K. <i>Journal of the American Chemical Society</i> , 2021, 143, 3043-3048.	13.7	21
12	Bad metal behaviour in the new Hg-rich amalgam KHg_6 polar metallic bonding. <i>Journal of Alloys and Compounds</i> , 2015, 618, 299-304.	5.5	20
13	Double-Icosahedral Li Clusters in a New Binary Compound $Ba_{19}Li_{44}$: A Reinvestigation of the $Ba-Li$ Phase Diagram. <i>Inorganic Chemistry</i> , 2007, 46, 5425-5428.	4.0	19
14	Icosahedral Li clusters in the structures of $Li_{33.3}Ba_{13.1}Ca_3$ and $Li_{18.9}Na_{8.3}Ba_{15.3}$. <i>Journal of Solid State Chemistry</i> , 2007, 180, 3302-3309.	2.9	19
15	Cs_2Hg_{27} , das quecksilberreichste Amalgam "ein naher Verwandter der Bergman-Phasen. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 853-856.	1.2	19
16	Finding the Right Blend: Interplay Between Structure and Sodium Ion Conductivity in the System $Na_4Si_4S_4$. <i>Frontiers in Chemistry</i> , 2020, 8, 90.	3.6	19
17	Electrocrystallization: A Synthetic Method for Intermetallic Phases with Polar Metal-Metal Bonding. <i>Inorganic Chemistry</i> , 2016, 55, 11551-11559.	4.0	18
18	Alkali Metal Tetrelide Tetrelates: Double Salts With $[E_4]^{4-}$ Zintl Anions (E=Si, Ge) and the First Dimeric Cyclotrisilicate Ions $[Si_6O_{17}]^{10-}$. This work was supported by the Deutsche Forschungsgemeinschaft, the Verband der Chemischen Industrie, the Eidgenössische Technische Hochschule Zürich, the Bundesministerium für Forschung und Technik, and the Adolf-Messer-Stiftung. T.F. and S.H. thank Prof. Dr. D. Günther for the LA-ICP-MS and Dr. V. Shklover (both of the ETH Zürich) for the EDX measurements, C.H. and. <i>Angewandte Chemie - International Edition</i>	13.8	17

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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 Lanthancarbidchloriden. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 2765-2776.	1.2	7
42	Structural Diversity of Metallosupramolecular Assemblies from Cu(phen) ²⁺ (phen = 1,10-phenanthroline). Zeitschrift Fur Anorganische Und Allgemeine 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-Crystal NMR Measurements and DFT Calculations. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1635-1641.	1.2	7
45	Sm ₂ O ₂ I - 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 anti-ReO ₃ -type Na ₃ N: to Distort or not to Distort? Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 94-99.	1.2	6
48	Alkali Metal Suboxometalates - 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) - 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] ₂ , [Be(Pyr) ₄] ₂ , [Be(NMP) ₄] ₂ and [Be 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 ⁴⁻ -Ionen / La ₆ C ₂ Br ₉ : La Bitetrahedral Clusters with Endohedral C ₄ 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	Seltenerdethenidhalogenide Ln _{2n+6} (C ₂) _{n+4} X _{2n+2} : Darstellung, Struktur, Verwachsung und Verzwillingung. 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 Fur Kristallographie, 2011, 226, 553-556.	1.1	3
65	Synthesis and characterization of $\text{La}_{11}\text{Ni}_2\text{O}_{20}$ and $\text{La}_{11}\text{Ni}_2\text{O}_{19}$. Journal of Solid State Chemistry, 2016, 242, 162-169.	2.0	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 ₄)N ₂ (M = Ti, Zr) (M = Ti, Zr) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2019. 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) ₂ ·12H ₂ O and their characterisation by X-ray diffraction, ⁴⁵ 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][Ta ₄ N ₄ O] ₄ - 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 , $\text{Li}_{11}\text{Ga}_{24}$, and LiGa_2 . <i>Inorganic Chemistry</i> , 2020, 59, 6566-6580.	4.0	2
74	The Cesium Oxide Mercuride $\text{Cs}_{18}\text{Hg}_8\text{O}_6$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 0, , .	1.2	2
75	Rubidium stannate(IV), Rb_4SnO_4 . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2000, 56, 136-137.	0.4	1
76	Addendum to "Synthesis and crystal structure of the tetrelides $\text{A}_{12}\text{M}_{17}$ (A = Na, K, Rb, Cs; M = Si, Ge, Sn) and A_4Pb_9 (A = K, Rb)". <i>Journal of Alloys and Compounds</i> , 2004, 366, 309.	5.5	1
77	Die Aluminidiodide $\text{La}_{24}\text{Al}_{12}\text{I}_{21}$ und $\text{La}_{10}\text{Al}_{5}\text{I}_8$: Verbindungen mit intermetallischen La-Al-Bereichen und La-Al-Clustern. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006, 632, 1233-1238.	1.2	1
78	Chemische Verzwilligung von Salz und Metall in den Subnitridometallaten $\text{Ba}_{23}\text{Na}_{11}(\text{MN}_4)_4$ mit M=V, Nb, Ta. <i>Angewandte Chemie</i> , 2016, 128, 11026-11030.	2.0	1
79	Compounds with Polar Metallic Bonding. <i>Crystals</i> , 2019, 9, 267.	2.2	1
80	Hexaaquadibromidoeuropium(III) bromide, $[\text{EuBr}_2(\text{H}_2\text{O})_6]\text{Br}$. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, i35-i35.	0.2	1
81	Crystal structure of the dodecanuclear coordination compounds $[\text{RE}_{12}(\text{DMF})_{24}(\text{HCOO})_8(\text{OH})_{16}]\text{I}_3 \cdot 4\text{DMF}$ (RE = Eu, Nd). <i>Australian Journal of Chemistry</i> , 2022, , .	0.9	1
82	Alkaline Metal Stannide-Stannates: "Double Salts" with Zintl Sn_{4-4} and Stannate SnO_{4-3} Anions.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
83	Synthesis and Crystal Structure of the Tetrelides $\text{A}_{12}\text{M}_{17}$ (A: Na, K, Rb, Cs; M: Si, Ge, Sn) and A_4Pb_9 (A: K, Rb). <i>Journal of Solid State Chemistry</i> , 2004, 177, 1-14.	0.0	0
84	New Binary Alkaline Metal Stannides A_5Sn_8 (A: K, Cs) with Sn_{4-4} Zintl and Sn_{9-4} Cluster Anions.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
85	Three New Ethanide Iodides of La: $\text{La}_5\text{I}_9(\text{C}_2)$, $\text{La}_6\text{I}_{10}(\text{C}_2)$ and $\text{La}_{10}\text{I}_{15}(\text{C}_2)_2$. <i>ChemInform</i> , 2005, 36, no.	0.0	0
86	Refinement of the crystal structure of β -silicon tetrabromide, β - SiBr_4 , a room temperature modification. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2011, 226, 3-4.	0.3	0
87	Refinement of the crystal structure of β -silicon tetrabromide, β - SiBr_4 , at 271 K. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2011, 226, 5-6.	0.3	0
88	Röntgenographische Untersuchung eines kommerziellen Lithium-Ionen-Kondensators*. <i>Materialprüfung/Materials Testing</i> , 2014, 56, 722-727.	2.2	0
89	Laudatio Prof. Dr.-Ing. Caroline Richter. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 0, , .	1.2	0
90	Front Cover: The Cesium Oxide Mercuride $\text{Cs}_{18}\text{Hg}_8\text{O}_6$ (Z. Anorg.) <i>Journal of Solid State Chemistry</i> , 2004, 177, 1-14.	1.2	0