

Lars Åhrström

List of Publications by Year in descending order

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111
papers

4,673
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117625

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all docs

115
docs citations

115
times ranked

5791
citing authors

#	ARTICLE	IF	CITATIONS
1	Chiral Lanthanum Metal-Organic Framework with Gated CO ₂ Sorption and Concerted Framework Flexibility. <i>Journal of the American Chemical Society</i> , 2022, 144, 8725-8733.	13.7	18
2	Octanuclear heterometallic FeIII-CeIV pivalate clusters: From a close {Fe ₄ Ce ₄ ($\frac{1}{4}$ -O) ₄ } cage to an open {Fe ₄ Ce ₄ ($\frac{1}{4}$ -O) ₂ ($\frac{1}{3}$ -O) ₂ } core. <i>Inorganica Chimica Acta</i> , 2021, 515, 120038.	2.4	1
3	A unified topology approach to dot-, rod-, and sheet-MOFs. <i>CheM</i> , 2021, 7, 2491-2512.	11.7	30
4	An improved water-harvesting cycle. <i>Science</i> , 2021, 374, 402-402.	12.6	6
5	Hybrid Metal-Organic Framework-Cellulose Materials Retaining High Porosity: ZIF-8@Cellulose Nanofibrils. <i>Inorganics</i> , 2021, 9, 84.	2.7	9
6	A Robust and Biocompatible Bismuth Ellagate MOF Synthesized Under Green Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2020, 142, 16795-16804.	13.7	115
7	Cyclometalation of lanthanum(III) based MOF for catalytic hydrogenation of carbon dioxide to formate. <i>RSC Advances</i> , 2020, 10, 3593-3605.	3.6	35
8	Metal-Organic Frameworks with Hexakis(4-carboxyphenyl)benzene: Extensions to Reticular Chemistry and Introducing Foldable Nets. <i>Journal of the American Chemical Society</i> , 2020, 142, 9471-9481.	13.7	26
9	Elements of X. <i>Chemistry International</i> , 2019, 41, 2-3.	0.3	0
10	Natural and synthetic metal oxalates – a topology approach. <i>CrystEngComm</i> , 2019, 21, 6156-6164.	2.6	15
11	Rounding up lutetium. <i>Nature Chemistry</i> , 2018, 10, 372-372.	13.6	3
12	Lignin Based Molecular Materials – a Zinc Vanillate with a Hydrogen Bonded 4- and 8-connected Net with a New Topology. <i>Israel Journal of Chemistry</i> , 2018, 58, 1127-1130.	2.3	1
13	Conformational chiral polymorphism in cis-bis-triphenylphosphine complexes of transition metals. <i>CrystEngComm</i> , 2018, 20, 5137-5142.	2.6	2
14	Deconstruction of Crystalline Networks into Underlying Nets: Relevance for Terminology Guidelines and Crystallographic Databases. <i>Crystal Growth and Design</i> , 2018, 18, 3411-3418.	3.0	65
15	Elucidation of the elusive structure and formula of the active pharmaceutical ingredient bismuth subgallate by continuous rotation electron diffraction. <i>Chemical Communications</i> , 2017, 53, 7018-7021.	4.1	86
16	Framework Chemistry Transforming our Perception of the Solid State. <i>ACS Central Science</i> , 2017, 3, 528-530.	11.3	6
17	Names and symbols of the elements with atomic numbers 113, 115, 117 and 118 (IUPAC Recommendations) <i>TJ ETQg1 1 0.784314 rgB</i>	1.9	70
18	The Three-letter Element Symbols. <i>Chemistry International</i> , 2016, 38, .	0.3	4

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19	Mechanochemical Immobilisation of Metathesis Catalysts in a Metal-Organic Framework. Chemistry - A European Journal, 2016, 22, 15437-15443.	3.3	21
20	Brief encounters with dubnium. Nature Chemistry, 2016, 8, 986-986.	13.6	0
21	Teaching of chemical bonding: a study of Swedish and South African students' conceptions of bonding. Chemistry Education Research and Practice, 2016, 17, 985-1005.	2.5	18
22	Designing, Describing and Disseminating New Materials by using the Network Topology Approach. Chemistry - A European Journal, 2016, 22, 13758-13763.	3.3	16
23	Now you see me too. Science, 2016, 353, 754-755.	12.6	1
24	Rhodium roles. Nature Chemistry, 2016, 8, 90-90.	13.6	4
25	Topology analysis reveals supramolecular organisation of 96 large complex ions into one geometrical object. CrystEngComm, 2016, 18, 1883-1886.	2.6	5
26	Let's Talk about MOFs: Topology and Terminology of Metal-Organic Frameworks and Why We Need Them. Crystals, 2015, 5, 154-162.	2.2	71
27	The synthesis, structure, topology and catalytic application of a novel cubane-based copper(II) metal-organic framework derived from a flexible amido tripodal acid. Dalton Transactions, 2015, 44, 10156-10165.	3.3	56
28	Potent potassium. Nature Chemistry, 2015, 7, 464-464.	13.6	1
29	Enhanced Synthesis of Metal-Organic Frameworks on the Surface of Electrospun Cellulose Nanofibers. Advanced Engineering Materials, 2015, 17, 1282-1286.	3.5	59
30	Towards the chemical control of molecular packing: syntheses and crystal structures of three trans-[NiL ₄ (NCS) ₂] complexes. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 115-125.	1.1	13
31	Crystal structures and hydrogen bond analysis of five amino acid conjugates of terephthalic and benzene-1,2,3-tricarboxylic acids. CrystEngComm, 2014, 16, 8243-8251.	2.6	11
32	Network topology approach to new allotropes of the group 14 elements. Zeitschrift Fur Kristallographie - Crystalline Materials, 2013, 228, 343-346.	0.8	24
33	Terminology of metal-organic frameworks and coordination polymers (IUPAC Recommendations) Tj ETQq1 1 0.784314 rgBT /Overbo 1.9 984	1.9	984
34	Single-Crystal-to-Single-Crystal Transformation of a Novel 2-Fold Interpenetrated Cadmium-Organic Framework with Trimesate and 1,2-Bis(4-pyridyl)ethane into the Thermally Desolvated Form Which Exhibits Liquid and Gas Sorption Properties. Crystal Growth and Design, 2013, 13, 1526-1534.	3.0	30
35	Preparation of potentially porous, chiral organometallic materials through spontaneous resolution of pincer palladium conformers. Dalton Transactions, 2013, 42, 8484.	3.3	12
36	Metal-ligand bond lengths and strengths: are they correlated? A detailed CSD analysis. Zeitschrift Fur Kristallographie - Crystalline Materials, 2013, 228, 311-317.	0.8	68

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37	Effects of Different Substituents on the Crystal Structures and Antimicrobial Activities of Six Ag(I) Quinoline Compounds. <i>Inorganic Chemistry</i> , 2013, 52, 4046-4060.	4.0	34
38	Concomitant Metal Organic Frameworks of Cobalt(II) and 3-(4-Pyridyl)benzoate: Optimized Synthetic Conditions of Solvatochromic and Thermochromic Systems. <i>Crystal Growth and Design</i> , 2013, 13, 633-644.	3.0	45
39	A new methanol solvate and Hirshfeld analysis of π -stacking in 2,3,6,7,10,11-hexahydroxytriphenylene solvates. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013, 69, 251-254.	0.4	4
40	Special Issue on Metal-Organic Frameworks, Porous Coordination Polymers and Zeolites. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2013, 228, III-IV.	0.8	0
41	Topological studies of three related metal-organic frameworks of Gd ^{III} and 5-nitroisophthalate. <i>Acta Crystallographica Section B: Structural Science</i> , 2012, 68, 528-535.	1.8	6
42	Synthetic and crystallographic studies of bicyclo[3.3.1]nonane derivatives: from strong to weak hydrogen bonds and the stereochemistry of network formation. <i>CrystEngComm</i> , 2012, 14, 178-187.	2.6	11
43	2,3,6,7,10,11-Hexamethoxytriphenylene (HMTP): A new organic cathode material for lithium batteries. <i>Electrochemistry Communications</i> , 2012, 21, 50-53.	4.7	12
44	Neutral Organometallic Halogen Bond Acceptors: Halogen Bonding in Complexes of PCPPdX (X = Cl, I) and 1,4-Diiodooctafluorobutane (F8DIBu). <i>Crystal Growth and Design</i> , 2012, 12, 362-368.	3.0	91
45	Coordination polymers, metal-organic frameworks and the need for terminology guidelines. <i>CrystEngComm</i> , 2012, 14, 3001.	2.6	464
46	Bis 4,5-diazafluoren-9-one silver(I) nitrate: synthesis, X-ray structures, solution chemistry, hydrogel loading, DNA coupling and anti-bacterial screening. <i>New Journal of Chemistry</i> , 2011, 35, 640.	2.8	26
47	Multi-component self-assembly of molecule based materials by coordination networks and weak intermolecular synthons. <i>CrystEngComm</i> , 2011, 13, 5813.	2.6	8
48	Vinylimidazole copolymers: coordination chemistry, solubility, and cross-linking as function of Cu ²⁺ and Zn ²⁺ complexation. <i>Colloid and Polymer Science</i> , 2011, 289, 1361-1372.	2.1	39
49	The coordination polymer poly[(1/3-3-aminocarbonylpyrazine-2-carboxylato-1/3N1:O2:O2)2silver(I)]. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2011, 67, m1-m4.	0.4	3
50	2,3,6,7,10,11-Hexahydroxytriphenylene tetrahydrate: a new form of an important starting material for supramolecular chemistry and covalent organic frameworks. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2011, 67, o143-o145.	0.4	7
51	2D Bipyrimidine silver(I) nitrate: Synthesis, X-ray structure, solution chemistry and anti-microbial activity. <i>Inorganic Chemistry Communication</i> , 2011, 14, 550-553.	3.9	10
52	Family of Isorecticular Chiral Metal-Organic Frameworks Based on Coordination and Hydrogen Bonds in [M[Co(ethylenediamine)(oxalato) ₂] ₂]. <i>Crystal Growth and Design</i> , 2010, 10, 1971-1978.	3.0	18
53	Synthesis, Crystal Structure, Quantum Chemical Calculations, DNA Interactions, and Antimicrobial Activity of [Ag(2-amino-3-methylpyridine) ₂] ₃ NO ₃ and [Ag(pyridine-2-carboxaldoxime) ₃]. <i>Inorganic Chemistry</i> , 2010, 49, 9788-9797.	4.0	71
54	Anionic zinc-trimesic acid MOFs with unusual topologies: Reversible hydration studies. <i>Dalton Transactions</i> , 2010, 39, 2869.	3.3	27

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55	Synthesis, X-ray structure and anti-corrosion activity of two silver(I) pyrazino complexes. <i>Polyhedron</i> , 2009, 28, 2794-2802.	2.2	39
56	Network analysis of barium oxalates Ba(C ₂ O ₄) _m (HC ₂ O ₄) _n (H ₂ C ₂ O ₄) _p (H ₂ O) _q , including the new, uniform, five-connected loh net. <i>Inorganic Chemistry Communication</i> , 2009, 12, 105-108.	3.9	22
57	New Topology in Azide-Bridged Cobalt(II) Complexes: the Weak Ferromagnet [Co ₂ (N ₃) ₄ (Hexamethylenetetramine)(H ₂ O)] _n . <i>Inorganic Chemistry</i> , 2009, 48, 6280-6286.		26
58	Two 2-D copper(II) azido compounds: catena-poly[di-μ ₄ 1,1-azido, di-μ ₄ N,O-(quinolinecarboxylato)(aqua)copper(II)] and 1-D catena-poly[di-μ ₄ N,N ² -(quinoxaline)copper(II)nitrate]. <i>Journal of Coordination Chemistry</i> , 2009, 62, 519-530.	2.2	12
59	Network analysis of bicyclo[3.3.1]nonanes: the diol, the dione and the acetal. <i>CrystEngComm</i> , 2009, 11, 1837.	2.6	12
60	Oxalate- and Squarate-Biimidazole Supramolecular Synthons: Hydrogen-Bonded Networks Based on [Co(H ₂ C ₂ O ₄) ₃ biimidazole] ₃₊ . <i>Crystal Growth and Design</i> , 2009, 9, 2821-2827.	3.0	25
61	Methyl groups control coordination number, stoichiometry, network and magnetism in a Cu(II)-azide-pyrazine (6,3) 2D net. <i>CrystEngComm</i> , 2009, 11, 223-225.	2.6	13
62	A three-dimensional net of μ ³ -tris(1,10-phenanthroline)ruthenium(II) in the dual-metal self-assembly of bis[tris(1,10-phenanthroline)ruthenium(II)] tetrathioisocyanatoiron(II) bis(perchlorate). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2008, 64, m243-m245.	0.4	4
63	An interpenetrating primitive cubic net formed by hydrogen bonds and coordination bonds in catena-poly[[bis(methanol-μ ₂ O)bis(thiocyanato-μ ₂ N)iron(II)]-μ ₄ -1,2-bis(4-pyridylmethylene)hydrazine-μ ₂]. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2008, 64, m277-m279.		
64	1D and 2D Fell Azide Coordination Polymers with Ferromagnetic Canting. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 112-118.	2.0	16
65	The role of intermolecular interactions in the assemblies of Fell and Coll tetrakis-isothiocyanatometalates with tris(1,10-phenanthroline)-Rull: Crystal structures of two dual-metal assemblies featuring octahedral cationic and tetrahedral anionic modules. <i>Journal of Solid State Chemistry</i> , 2008, 181, 2191-2198.	2.9	23
66	Synthesis, EPR and DFT calculations of rare Ag(II)porphyrins and the crystal structure of [Zn(II)tetrakis(4-bromo-2-thiophene)porphyrin]. <i>Inorganic Chemistry Communication</i> , 2008, 11, 1019-1022.	3.9	14
67	Syntheses, structure, and magnetic properties of extended structured Cr(II) pentacyanopropenide compounds. <i>Journal of Molecular Structure</i> , 2008, 890, 41-47.	3.6	10
68	An unusual 3D-topology and dominant ferromagnetic couplings in two Cu(II)-azide coordination polymers. <i>Dalton Transactions</i> , 2008, , 3553.	3.3	68
69	Hydrogen Bond Control of Dimensionality in Organometallic {2,6-Bis[(di- <i>t</i> -butylphosphino)methyl]phenyl}palladium(II) Compounds: μ ₂ Dimers, Chains, and a 3D-Net with an Apparent Channel Structure. <i>Crystal Growth and Design</i> , 2007, 7, 1974-1979.	3.0	29
70	Synthesis and Structure of Silver Complexes with Nicotinate-Type Ligands Having Antibacterial Activities against Clinically Isolated Antibiotic Resistant Pathogens. <i>Inorganic Chemistry</i> , 2007, 46, 5893-5903.	4.0	90
71	Syntheses, crystal structures, optical limiting properties, and DFT calculations of three thiophene-2-aldazine Schiff base derivatives. <i>New Journal of Chemistry</i> , 2007, 31, 1777.	2.8	13
72	Synthesis, structure, network and thermal analysis of four 5-(pyrazinyl)tetrazolato copper(II) and cobalt(II) complexes. <i>Polyhedron</i> , 2007, 26, 1531-1540.	2.2	39

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91	Strong Supramolecular-Based Magnetic Exchange in π -Stacked Radicals. Structure and Magnetism of a Hydrogen-Bonded Verdazyl Radical:Hydroquinone Molecular Solid. <i>Journal of the American Chemical Society</i> , 2001, 123, 7154-7159.	13.7	111
92	Spin Distributions, Ring Conformations, and Spiroconjugation in π -Phosphoverdazyl Radicals. <i>Inorganic Chemistry</i> , 2001, 40, 1865-1870.	4.0	22
93	Crucial Influence of Solvent and Chirality on the Formation of Helices and Three-Dimensional Nets by Hydrogen-Bonded Bimidazolite Complexes. <i>Chemistry - A European Journal</i> , 2001, 7, 4805-4810.	3.3	66
94	On the structures and properties of $\text{Cr}(\text{DMSO})_6^{3+}$ and the coordination polymer $[\text{cis-Cr}(\text{III})(\text{oxalate})_2(\text{DMSO})_2\text{K}(\text{DMSO})_2]_n$. <i>Inorganica Chimica Acta</i> , 2000, 305, 157-162.	2.4	15
95	X-ray Structures and DFT Calculations on Rhodium Olefin Complexes: Comments on the ^{103}Rh NMR Shift-Stability Correlation. <i>Organometallics</i> , 2000, 19, 5589-5596.	2.3	47
96	On tuning the copper(I) coordination number in halocuprate(I) anions: new insights into cation control. <i>Inorganica Chimica Acta</i> , 1999, 292, 266-271.	2.4	19
97	Fe^{II} Catecholate and Fe^{II} Oxalate Vibrations and Isotopic Substitution Shifts from DFT Quantum Chemistry. <i>Journal of Physical Chemistry A</i> , 1999, 103, 256-264.	2.5	41
98	Protonation of π -alkene-rhodium(I) complexes leads to π -alkyl-rhodium(III) an NMR study. <i>Journal of Organometallic Chemistry</i> , 1998, 558, 123-130.	1.8	11
99	Spin Density Maps in the Triplet Ground State of $[\text{Cu}_2(\text{t-Bu})_4(\text{N}_3)_2](\text{ClO}_4)_2(\text{t-Bu})$. <i>Journal of the American Chemical Society</i> , 1998, 120, 5238-5245.	13.7	153
100	Spin Density Maps for the Ferrimagnetic Chain Compound $\text{MnCu}(\text{pba})(\text{H}_2\text{O})_3 \cdot 2\text{H}_2\text{O}$ ($\text{pba} =$). <i>Journal of the American Chemical Society</i> , 1997, 119, 3500-3506.	13.7	67
101	The Importance of Magnetic Coupling Through Atoms with Large Spin Densities: Structure and Magnetic Properties of meso -Tetrakis(2-tert-Butylphenyl)Porphinato manganese(III) Hexacyanobutadienide, $[\text{Mn}^{\text{III}}(\text{t-BuPP})_4(\text{CN})_6]^{+}$. <i>Chemistry - A European Journal</i> , 1997, 3, 138-142.	3.3	34
102	Spin-Density Maps for an Oxamido-Bridged $\text{Mn}(\text{II})\text{Cu}(\text{II})$ Binuclear Compound. Polarized Neutron Diffraction and Theoretical Studies. <i>Journal of the American Chemical Society</i> , 1996, 118, 11822-11830.	13.7	56
103	Quantum Chemical Approach to the Assignment of Iron Catecholate Vibrations and Isotopic Substitution Shifts. <i>Journal of the American Chemical Society</i> , 1996, 118, 3283-3284.	13.7	20
104	Spin-Transition and Ferromagnetic Interactions in Copper(II) Complexes of a 3-Pyridyl-Substituted Imino Nitroxide. Dependence of the Magnetic Properties upon Crystal Packing. <i>Inorganic Chemistry</i> , 1996, 35, 3484-3491.	4.0	110
105	Structural and Magnetization Studies of a New $(\mu_4\text{-Oxo})\text{bis}(\mu_4\text{-carboxylato})\text{dimanganese}(\text{III})$ Complex with a Terminal Hydroxo Ligand. <i>Inorganic Chemistry</i> , 1996, 35, 1857-1865.	4.0	59
106	The Correlation Between Transition Metal NMR Chemical Shifts and the Stability of Coordination Compounds. <i>Comments on Inorganic Chemistry</i> , 1996, 18, 305-323.	5.2	18
107	Spin Density Calculations on the Tetraphenylverdazyl Radical and Two Nitroxide Radicals: First and Second Order Spin Polarization.. <i>Acta Chemica Scandinavica</i> , 1996, 50, 458-461.	0.7	9
108	^{103}Rh chemical shifts and trans influence of ligands in rhodoximes and organorhodoximes. <i>Magnetic Resonance in Chemistry</i> , 1995, 33, 984-987.	1.9	13

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109	The oxidation of $[\text{Co}(\text{edta})]^{2-}$ by $[\text{Co}(\text{phen})_3]^{3+}$. <i>Inorganica Chimica Acta</i> , 1994, 225, 75-82.	2.4	14
110	The Dynamic Behaviour and NMR Solution structures of complexes of the type (Bisphosphine)(cycloocta-1,5-diene)iridium(I) and the X-ray crystal structure of (cycloocta-1,5-diene)((η^5)-norphos)iridium(I) hexafluorophosphate. <i>Helvetica Chimica Acta</i> , 1993, 76, 788-803.	1.6	19
111	Solution structures of $[\text{IrH}_2(1,5\text{-cyclooctadiene})(\text{bisphosphine})](\text{CF}_3\text{SO}_3)$ complexes. Homo- and heteronuclear long-range couplings from hydride and phosphorus spins to cyclooctadiene protons. <i>Magnetic Resonance in Chemistry</i> , 1993, 31, 677-684.	1.9	11