Lars Ã–hrstrÃ¶m

List of Publications by Year
in descending order

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111 papers	4,673 citations	117625 34 h-index	102487 66 g-index
115 all docs	115 docs citations	115 times ranked	5791 citing authors

#	Article	IF	Citations
1	Terminology of metalâ€“organic frameworks and coordination polymers (IUPAC Recommendations) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 66	1.9	984
2	Coordination polymers, metalâ€“organic frameworks and the need for terminology guidelines. CrystEngComm, 2012, 14, 3001.	2.6	464
3	Spin Density Maps in the Triplet Ground State of [Cu2(t-Bupy)4(N3)2](ClO4)2(t-Bupy) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 66 Society, 1998, 120, 5238-5245.	13.7	153
4	A Robust and Biocompatible Bismuth Ellagate MOF Synthesized Under Green Ambient Conditions. Journal of the American Chemical Society, 2020, 142, 16795-16804.	13.7	115
5	Strong Supramolecular-Based Magnetic Exchange in Ï€-Stacked Radicals. Structure and Magnetism of a Hydrogen-Bonded Verdazyl Radical:Hydroquinone Molecular Solid. Journal of the American Chemical Society, 2001, 123, 7154-7159.	13.7	111
6	Spin-Transition and Ferromagnetic Interactions in Copper(II) Complexes of a 3-Pyridyl-Substituted Imino Nitroxide. Dependence of the Magnetic Properties upon Crystal Packing. Inorganic Chemistry, 1996, 35, 3484-3491.	4.0	110
7	What kinds of three-dimensional nets are possible with tris-chelated metal complexes as building blocks?. Dalton Transactions, 2004, , 347-353.	3.3	92
8	Neutral Organometallic Halogen Bond Acceptors: Halogen Bonding in Complexes of PCPPdX (X = Cl,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 1,4-Diiodooctafluorobutane (F8DIBu). Crystal Growth and Design, 2012, 12, 362-368.	3.0	91
9	Synthesis and Structure of Silver Complexes with Nicotinate-Type Ligands Having Antibacterial Activities against Clinically Isolated Antibiotic Resistant Pathogens. Inorganic Chemistry, 2007, 46, 5893-5903.	4.0	90
10	Elucidation of the elusive structure and formula of the active pharmaceutical ingredient bismuth subgallate by continuous rotation electron diffraction. Chemical Communications, 2017, 53, 7018-7021.	4.1	86
11	Synthesis, a case of isostructural packing, and antimicrobial activity of silver(i)quinoxaline nitrate, silver(i)(2,5-dimethylpyrazine) nitrate and two related silver aminopyridine compounds. Dalton Transactions, 2006, , 2542-2550.	3.3	79
12	Synthesis, Crystal Structure, Quantum Chemical Calculations, DNA Interactions, and Antimicrobial Activity of [Ag(2-amino-3-methylpyridine)₂]NO₃ and [Ag(pyridine-2-carboxaldoxime)NO₃]. Inorganic Chemistry, 2010, 49, 9788-9797.	4.0	71
13	Letâ€™s Talk about MOFsâ€”Topology and Terminology of Metal-Organic Frameworks and Why We Need Them. Crystals, 2015, 5, 154-162.	2.2	71
14	Names and symbols of the elements with atomic numbers 113, 115, 117 and 118 (IUPAC Recommendations) Tj ETQq0 0 0 rgBT /Overlo	1.9	70
15	An unusual 3D-topology and dominant ferromagnetic couplings in two Cu(ii)â€“azide coordination polymers. Dalton Transactions, 2008, , 3553.	3.3	68
16	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
17	Spin Density Maps for the Ferrimagnetic Chain Compound MnCu(pba)(H2O)3Â·2H2O (pba =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 American Chemical Society, 1997, 119, 3500-3506.	13.7	67
18	Crucial Influence of Solvent and Chiralityâ€”The Formation of Helices and Three-Dimensional Nets by Hydrogen-Bonded Biimidazolate Complexes. Chemistry - A European Journal, 2001, 7, 4805-4810.	3.3	66

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19	Deconstruction of Crystalline Networks into Underlying Nets: Relevance for Terminology Guidelines and Crystallographic Databases. Crystal Growth and Design, 2018, 18, 3411-3418.	3.0	65
20	An Approach to Helical Tubular Self-Aggregation Using C2-Symmetric Self-Complementary Hydrogen-Bonding Cavity Molecules. Journal of the American Chemical Society, 2006, 128, 8272-8285.	13.7	60
21	Structural and Magnetization Studies of a New (Î¼-Oxo)bis(Î¼-carboxylato)dimanganese(III) Complex with a Terminal Hydroxo Ligand. Inorganic Chemistry, 1996, 35, 1857-1865.	4.0	59
22	Enhanced Synthesis of Metalâ€Organic Frameworks on the Surface of Electrospun Cellulose Nanofibers. Advanced Engineering Materials, 2015, 17, 1282-1286.	3.5	59
23	Spin-Density Maps for an Oxamido-Bridged Mn(II)Cu(II) Binuclear Compound. Polarized Neutron Diffraction and Theoretical Studies. Journal of the American Chemical Society, 1996, 118, 11822-11830.	13.7	56
24	The synthesis, structure, topology and catalytic application of a novel cubane-based copper(<scp>ii</scp>) metalâ€“organic framework derived from a flexible amido tripodal acid. Dalton Transactions, 2015, 44, 10156-10165.	3.3	56
25	X-ray Structures and DFT Calculations on Rhodiumâ^'Olefin Complexes:Â Comments on the103Rh NMR Shiftâ^'Stability Correlation. Organometallics, 2000, 19, 5589-5596.	2.3	47
26	Concomitant Metal Organic Frameworks of Cobalt(II) and 3-(4-Pyridyl)benzoate: Optimized Synthetic Conditions of Solvatochromic and Thermochromic Systems. Crystal Growth and Design, 2013, 13, 633-644.	3.0	45
27	Coordination bonds and strong hydrogen bonds giving a framework material based on a 4- and 8-connected net in [Ca[Co(en)(oxalato)2]2]n. CrystEngComm, 2006, 8, 666-669.	2.6	42
28	Feâ^'Catecholate and Feâ^'Oxalate Vibrations and Isotopic Substitution Shifts from DFT Quantum Chemistry. Journal of Physical Chemistry A, 1999, 103, 256-264.	2.5	41
29	A unique example of a high symmetry three- and four-connected hydrogen bonded 3D-network. Chemical Communications, 2006, , 1082.	4.1	41
30	X-ray and NMR study of the fate of the Co(1,10-phenanthroline-5,6-diketone)33+ ion in aqueous solution: supramolecular motifs in the packing of 1,10-phenanthroline-5,6-diketone and 1,10-phenanthroline-5,6-diol complexes. Inorganica Chimica Acta, 2004, 357, 657-664.	2.4	40
31	Synthesis, structure, network and thermal analysis of four 5-(pyrazinyl)tetrazolato copper(II) and cobalt(II) complexes. Polyhedron, 2007, 26, 1531-1540.	2.2	39
32	Synthesis, X-ray structure and anti-corrosion activity of two silver(I) pyrazino complexes. Polyhedron, 2009, 28, 2794-2802.	2.2	39
33	Vinylimidazole copolymers: coordination chemistry, solubility, and cross-linking as function of Cu2+ and Zn2+ complexation. Colloid and Polymer Science, 2011, 289, 1361-1372.	2.1	39
34	Cyclometalation of lanthanum(<scp>iii</scp>) based MOF for catalytic hydrogenation of carbon dioxide to formate. RSC Advances, 2020, 10, 3593-3605.	3.6	35
35	The Importance of Magnetic Coupling Through Atoms with Large Spin Densitiesâ€ Structure and Magnetic Properties of mesoâ€Tetrakisâ€(4â€²â€tertâ€Butylphenyl)Porphinatomanganese(III) Hexacyanobutadienide, [Mn^{III}TtBuPP]⁺[C₄(CN)₆]^{â€<}. Chemistry - A European Journal, 1997, 3, 138-142.	3.3	34
36	Design and Synthesis of aC2-Symmetric Self-Complementary Hydrogen-Bonding Cleft Molecule Based on the Bicyclo[3.3.1]nonane and 4-Oxo-5-azaindole Framework. Formation of Channels and Inclusion Complexes in the Solid State. Journal of Organic Chemistry, 2004, 69, 5196-5203.	3.2	34

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37	Effects of Different Substituents on the Crystal Structures and Antimicrobial Activities of Six Ag(I) Quinoline Compounds. Inorganic Chemistry, 2013, 52, 4046-4060.	4.0	34
38	A (10,3)-b net by sulfate hydrogen-bonded biimidazolate complexes. CrystEngComm, 2003, 5, 222-225.	2.6	33
39	The Cyano Nitronyl Nitroxide Radical: Experimental and Theoretical Evidence for the Fourth Case of the McConnell-I Mechanism. Chemistry - A European Journal, 2002, 8, 3157.	3.3	30
40	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
41	A unified topology approach to dot-, rod-, and sheet-MOFs. CheM, 2021, 7, 2491-2512.	11.7	30
42	Hydrogen Bond Control of Dimensionality in Organometallic {2,6-Bis[(di-t-butylphosphino)methyl]phenyl}palladium(II) Compounds:â€‰ Dimers, Chains, and a 3D-Net with an Apparent Channel Structure. Crystal Growth and Design, 2007, 7, 1974-1979.	3.0	29
43	Anionic zinc-trimesic acid MOFs with unusual topologies: Reversible hydration studies. Dalton Transactions, 2010, 39, 2869.	3.3	27
44	Cobalt 2,2â€²-biimidazole complexes co-crystallised with di-acids â€” synthesis, structure and quantum chemical calculations. CrystEngComm, 2004, 6, 354-359.	2.6	26
45	New Topology in Azide-Bridged Cobalt(II) Complexes: the Weak Ferromagnet [Co₂(N₃)₄(Hexamethylenetetramine)(H₂O)]_n. Inorganic Chemistry, 2009, 48, 6280-6286.		26
46	Bis 4,5-diazafluoren-9-one silver(i) nitrate: synthesis, X-ray structures, solution chemistry, hydrogel loading, DNA coupling and anti-bacterial screening. New Journal of Chemistry, 2011, 35, 640.	2.8	26
47	Metalâ€“Organic Frameworks with Hexakis(4-carboxyphenyl)benzene: Extensions to Reticular Chemistry and Introducing Foldable Nets. Journal of the American Chemical Society, 2020, 142, 9471-9481.	13.7	26
48	Oxalate- and Squarate-Biimidazole Supramolecular Synthons: Hydrogen-Bonded Networks Based on [Co(H₂biimidazole)₃]³⁺. Crystal Growth and Design, 2009, 9, 2821-2827.	3.0	25
49	Network topology approach to new allotropes of the group 14 elements. Zeitschrift Fur Kristallographie - Crystalline Materials, 2013, 228, 343-346.	0.8	24
50	New homogeneous and alternating Mn(II)-azido 1D systems. Polyhedron, 2005, 24, 557-562.	2.2	23
51	The role of intermolecular interactions in the assemblies of FeII and CoII tetrakis-isothiocyanatometalates with tris(1,10-phenanthroline)-RuII: Crystal structures of two dual-metal assemblies featuring octahedral cationic and tetrahedral anionic modules. Journal of Solid State Chemistry, 2008, 181, 2191-2198.	2.9	23
52	Spin Distributions, Ring Conformations, and Spiroconjugation in â€œPhosphaverdazylâ€•Radicals. Inorganic Chemistry, 2001, 40, 1865-1870.	4.0	22
53	Network analysis of barium oxalates Ba(C2O4)m(HC2O4)n(H2C2O4)p(H2O)q, including the new, uniform, five-connected loh net. Inorganic Chemistry Communication, 2009, 12, 105-108.	3.9	22
54	Mechanochemical Immobilisation of Metathesis Catalysts in a Metalâ€“Organic Framework. Chemistry - A European Journal, 2016, 22, 15437-15443.	3.3	21

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55	Quantum Chemical Approach to the Assignment of Ironâ^'Catecholate Vibrations and Isotopic Substitution Shifts. Journal of the American Chemical Society, 1996, 118, 3283-3284.	13.7	20
56	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)((â^')-norphos)iridium(I) hexafluorophosphate. Helvetica Chimica Acta, 1993, 76, 788-803.	1.6	19
57	On tuning the copper(I) coordination number in halocuprate(I) anions: new insights into cation control. Inorganica Chimica Acta, 1999, 292, 266-271.	2.4	19
58	The Correlation Between Transition Metal NMR Chemical Shifts and the Stability of Coordination Compounds. Comments on Inorganic Chemistry, 1996, 18, 305-323.	5.2	18
59	Family of Isoreticular Chiral Metalâ^'Organic Frameworks Based on Coordination and Hydrogen Bonds in [M[Co(ethylenediamine)(oxalato)₂]₂]. Crystal Growth and Design, 2010, 10, 1971-1978.	3.0	18
60	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
61	Chiral Lanthanum Metalâ€“Organic Framework with Gated CO₂ Sorption and Concerted Framework Flexibility. Journal of the American Chemical Society, 2022, 144, 8725-8733.	13.7	18
62	1D and 2D FeII Azide Coordination Polymers with Ferromagnetic Canting. European Journal of Inorganic Chemistry, 2008, 2008, 112-118.	2.0	16
63	Designing, Describing and Disseminating New Materials by using the Network Topology Approach. Chemistry - A European Journal, 2016, 22, 13758-13763.	3.3	16
64	On the structures and properties of Cr(DMSO)63+ and the coordination polymer [cis-Cr(III)(oxalate)2(DMSO)2K(DMSO)2]n. Inorganica Chimica Acta, 2000, 305, 157-162.	2.4	15
65	Natural and synthetic metal oxalates â€“ a topology approach. CrystEngComm, 2019, 21, 6156-6164.	2.6	15
66	The oxidation of [Co(edta)]2â^' by [Co(phen)3]3+. Inorganica Chimica Acta, 1994, 225, 75-82.	2.4	14
67	Synthesis, EPR and DFT calculations of rare Ag(II)porphyrins and the crystal structure of [Zn(II)tetrakis(4-bromo-2-thiophene)porphyrin]. Inorganic Chemistry Communication, 2008, 11, 1019-1022.	3.9	14
68	103Rh chemical shifts andtrans influence of ligands in rhodoximes and organorhodoximes. Magnetic Resonance in Chemistry, 1995, 33, 984-987.	1.9	13
69	Syntheses, crystal structures, optical limiting properties, and DFT calculations of three thiophene-2-aldazine Schiff base derivatives. New Journal of Chemistry, 2007, 31, 1777.	2.8	13
70	Methyl groups control coordination number, stoichiometry, network and magnetism in a Cu(ii)-azide-pyrazine (6,3) 2D net. CrystEngComm, 2009, 11, 223-225.	2.6	13
71	Towards the chemical control of molecular packing: syntheses and crystal structures of threetrans-[NiL4(NCS)2] complexes. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 115-125.	1.1	13
72	Two 2-D copper(II) azido compounds: catena -poly[di -Î¼1,1- azido, di -Î¼N,O-(quinolinecarboxylato)(aqua)copper(II)] and 1-D catena -poly[di -Î¼N,Nâ€²-(quinoxaline)copper(II)nitrate]. Journal of Coordination Chemistry, 2009, 62, 519-530.	2.2	12

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73	Network analysis of bicyclo[3.3.1]nonanes: the diol, the dione and the acetal. CrystEngComm, 2009, 11, 1837.	2.6	12
74	2,3,6,7,10,11-Hexamethoxytriphenylene (HMTP): A new organic cathode material for lithium batteries. Electrochemistry Communications, 2012, 21, 50-53.	4.7	12
75	Preparation of potentially porous, chiral organometallic materials through spontaneous resolution of pincer palladium conformers. Dalton Transactions, 2013, 42, 8484.	3.3	12
76	Solution structures of [IrH2(1,5-cyclooctadiene) (bisphosphine)](CF3SO3) complexes. Homo- and heteronuclear long-range couplings from hydride and phosphorus spins to cyclooctadiene protons. Magnetic Resonance in Chemistry, 1993, 31, 677-684.	1.9	11
77	Protonation of Ï€-alkeneâ€“rhodium(I) complexes leads to Ïƒ-alkylâ€“rhodium(III)â€”an NMR study. Journal of Organometallic Chemistry, 1998, 558, 123-130.	1.8	11
78	Synthetic and crystallographic studies of bicyclo[3.3.1]nonane derivatives: from strong to weak hydrogen bonds and the stereochemistry of network formation. CrystEngComm, 2012, 14, 178-187.	2.6	11
79	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
80	1D and 3D coordination polymers with the M(Î¼1,Î¼1-X)2M motif (M=Na, Zn, Cd): Observation of a linear <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevi. Polyhedron,	2.2	10
81	Syntheses, structure, and magnetic properties of extended structured Cr(II) pentacyanopropenide compounds. Journal of Molecular Structure, 2008, 890, 41-47.	3.6	10
82	2D Bipyrimidine silver(I) nitrate: Synthesis, X-ray structure, solution chemistry and anti-microbial activity. Inorganic Chemistry Communication, 2011, 14, 550-553.	3.9	10
83	Spin Density Calculations on the Tetraphenylverdazyl Radical and Two Nitroxide Radicals: First and Second Order Spin Polarization.. Acta Chemica Scandinavica, 1996, 50, 458-461.	0.7	9
84	Hybrid Metal-Organic Framework-Cellulose Materials Retaining High Porosity: ZIF-8@Cellulose Nanofibrils. Inorganics, 2021, 9, 84.	2.7	9
85	Can DFT calculations help the molecular designer to construct molecule based magnetic materials?. Comptes Rendus Chimie, 2005, 8, 1374-1385.	0.5	8
86	Multi-component self-assembly of molecule based materials by coordination networks and weak intermolecular synthons. CrystEngComm, 2011, 13, 5813.	2.6	8
87	2,3,6,7,10,11-Hexahydroxytriphenylene tetrahydrate: a new form of an important starting material for supramolecular chemistry and covalent organic frameworks. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, o143-o145.	0.4	7
88	Topological studies of three related metal-organic frameworks of Gd^{III} and 5-nitroisophthalate. Acta Crystallographica Section B: Structural Science, 2012, 68, 528-535.	1.8	6
89	Framework Chemistry Transforming our Perception of the Solid State. ACS Central Science, 2017, 3, 528-530.	11.3	6
90	An improved water-harvesting cycle. Science, 2021, 374, 402-402.	12.6	6

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91	Topology analysis reveals supramolecular organisation of 96 large complex ions into one geometrical object. CrystEngComm, 2016, 18, 1883-1886.	2.6	5
92	A three-dimensional net of Î”-tris(1,10-phenanthroline)ruthenium(II) in the dual-metal self-assembly of bis[tris(1,10-phenanthroline)ruthenium(II)] tetraisothiocyanatoiron(II) bis(perchlorate). Acta Crystallographica Section C: Crystal Structure Communications, 2008, 64, m243-m245.	0.4	4
93	A new methanol solvate and Hirshfeld analysis of Ï€-stacking in 2,3,6,7,10,11-hexahydroxytriphenylene solvates. Acta Crystallographica Section C: Crystal Structure Communications, 2013, 69, 251-254.	0.4	4
94	The Three-letter Element Symbols:. Chemistry International, 2016, 38, .	0.3	4
95	Rhodium roles. Nature Chemistry, 2016, 8, 90-90.	13.6	4
96	Transformations of the chameleon ligand 1,10-phenanthroline-5,6-dione/diol:cis-dichlorido(1,10-phenanthroline-5,6-dione-Îº2N,Nâ€²)-trans-dipyridinecobalt(II) pyridine disolvate prepared from the diol. Acta Crystallographica Section C: Crystal Structure Communications, 2007, 63, m190-m192.	0.4	3
97	An interpenetrating primitive cubic net formed by hydrogen bonds and coordination bonds incatena-poly[[bis(methanol-ÎºO)bis(thiocyanato-ÎºN)iron(II)]-Î¼-1,2-bis(4-pyridylmethylene)hydrazine-Îº²²]. Acta Crystallographica Section C: Crystal Structure Communications, 2008, 64, m277-m279.	0.4	3
98	The coordination polymer poly[(Î¼3-3-aminocarbonylpyrazine-2-carboxylato-Îº3N1:O2:O2â€²)silver(I)]. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, m1-m4.	0.4	3
99	Rounding up lutetium. Nature Chemistry, 2018, 10, 372-372.	13.6	3
100	4,4â€²-(Azinodimethylene)dipyridinium bis(tetrafluoroborate) and 4-[(4-pyridylmethylene)hydrazonomethyl]pyridinium perchlorate: two different hydrogen-bonding motifs. Acta Crystallographica Section C: Crystal Structure Communications, 2007, 63, o312-o314.	0.4	2
101	Conformational chiral polymorphism in cis-bis-triphenylphosphine complexes of transition metals. CrystEngComm, 2018, 20, 5137-5142.	2.6	2
102	Potent potassium. Nature Chemistry, 2015, 7, 464-464.	13.6	1
103	Now you see me too. Science, 2016, 353, 754-755.	12.6	1
104	Lignin Based Molecular Materials â€“ a Zinc Vanillate with a Hydrogen Bonded 4â€•and 8â€•connected Net with a New Topology. Israel Journal of Chemistry, 2018, 58, 1127-1130.	2.3	1
105	Octanuclear heterometallic FeIII-CeIV pivalate clusters: From a close {Fe4Ce4(Î¼4-O)4} cage to an open {Fe4Ce4(Î¼4-O)2(Î¼3-O)2} core. Inorganica Chimica Acta, 2021, 515, 120038.	2.4	1
106	Why bother with nets ?. , 2005, , 19-38.		0
107	Three-connected nets. , 2005, , 99-126.		0
108	Special Issue on Metal-Organic Frameworks, Porous Coordination Polymers and Zeolites. Zeitschrift Fur Kristallographie - Crystalline Materials, 2013, 228, III-IV.	0.8	0

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109	Brief encounters with dubnium. Nature Chemistry, 2016, 8, 986-986.	13.6	0
110	Elements of X. Chemistry International, 2019, 41, 2-3.	0.3	0
111	What is a net?. , 2005, , 39-56.		0