Lyall R Hanton

List of Publications by Year
in descending order

67 papers	2,079 citations	257450 24 h-index	233421 45 g-index
67 all docs	67 docs citations	67 times ranked	2719 citing authors

#	Article	IF	Citations
1	Topological isomerism in coordination polymers. Chemical Communications, 2001, , 1432-1433.	4.1	213
2	Square planar silver(I) complexes: A rare but increasingly observed stereochemistry for silver(I). Coordination Chemistry Reviews, 2008, 252, 1346-1386.	18.8	209
3	A one pot multi-component CuAAC â€œclickâ€•approach to bidentate and tridentate pyridyl-1,2,3-triazole ligands: Synthesis, X-ray structures and copper(II) and silver(I) complexes. Polyhedron, 2010, 29, 70-83.	2.2	159
4	Antimicrobial Properties of a Chitosan Dextran-Based Hydrogel for Surgical Use. Antimicrobial Agents and Chemotherapy, 2012, 56, 280-287.	3.2	121
5	The Efficacy of a Novel Chitosan Gel on Hemostasis and Wound Healing after Endoscopic Sinus Surgery. American Journal of Rhinology and Allergy, 2010, 24, 70-75.	2.0	111
6	Formation of a single-stranded silver(i) helical-coordination polymer containing Ï€-stacked planar chiral N4S2 ligands. Chemical Communications, 2001, , 1098-1099.	4.1	99
7	Antimicrobial Properties of Tris(homoleptic) Ruthenium(II) 2-Pyridyl-1,2,3-triazole â€œClickâ€•Complexes against Pathogenic Bacteria, Including Methicillin-Resistant Staphylococcus aureus (MRSA). Inorganic Chemistry, 2016, 55, 9767-9777.	4.0	68
8	The role of the metal connectors AgNO3, Cu2I2 and CuCl2 in co-ordination-polymer formation using the N2S2 ditopic ligand 1,4-bis(2-pyridylmethylsulfanylmethyl)benzeneâ€Šâ€. Dalton Transactions RSC, 2000, , 1161-1166.	2.3	61
9	Banded ribbons of Cu6I6 hexamers and multimodal thioether pyrazine ligands linked by self-complementary Nâ‹¯Hâ€“C synthons. Dalton Transactions, 2003, , 1056-1058.	3.3	55
10	Coordination polymers and isomerism; a study using silver(i) and a Ï€-stacked ligand. Dalton Transactions RSC, 2001, , 2749-2755.	2.3	50
11	Sensitivity of Silver(I) Complexes of a Pyrimidineâ€“Hydrazone Ligand to Solvent, Counteranion, and Metal-to-Ligand Ratio Changes. Inorganic Chemistry, 2012, 51, 5070-5081.	4.0	49
12	Molecular rectangles from metallomacrocycles: development of dibenzofuran ligands. Dalton Transactions, 2003, , 1754-1758.	3.3	46
13	Synthesis, physiochemical characterization, and biocompatibility of a chitosan/dextran-based hydrogel for postsurgical adhesion prevention. Journal of Materials Science: Materials in Medicine, 2014, 25, 2743-2756.	3.6	46
14	Synthesis and characterisation of chitosan-graft-poly(OEGMA) copolymers prepared by ATRP. Carbohydrate Polymers, 2009, 77, 496-505.	10.2	41
15	Methyl group influence on the formation of CuI complexes with thio-pyridine ligands. Dalton Transactions RSC, 2002, , 1581-1585.	2.3	38
16	2-D Coordination Polymers of Hexa(4-cyanophenyl)[3]-radialene and Silver(I): AnionÂ·Â·Â·Ï€-Interactions and Radialene Câ^'HÂ·Â·Â·Anion Hydrogen Bonds in the Solid-State Interactions of Hexaaryl[3]-radialenes with Anions. Crystal Growth and Design, 2009, 9, 2911-2916.	3.0	36
17	Cyclodextrin-polyhydrazine degradable gels for hydrophobic drug delivery. Materials Science and Engineering C, 2016, 69, 144-153.	7.3	35
18	A blinded randomized controlled trial evaluating the efficacy of chitosan gel on ostial stenosis following endoscopic sinus surgery. International Forum of Allergy and Rhinology, 2013, 3, 573-580.	2.8	33

#	Article	IF	Citations
19	Probing copper halide supramolecular arrays of a ditopic ligand with complexes of a monotopic analogueDedicated to Barbara Duncan on the occasion of her retirement as Senior Teaching Fellow in Chemistry at the University of Otago, in acknowledgement of her contribution to our research activities.. Dalton Transactions RSC, 2002, , 1574-1580.	2.3	32
20	Synthesis of triphenylphosphonium vitamin E derivatives as mitochondria-targeted antioxidants. Tetrahedron, 2015, 71, 8444-8453.	1.9	32
21	In vitro biocompatibility and cellular interactions of a chitosan/dextranâ€based hydrogel for postsurgical adhesion prevention. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 332-341.	3.4	31
22	Strong poly(ethylene oxide) based gel adhesives via oxime cross-linking. Acta Biomaterialia, 2016, 29, 206-214.	8.3	31
23	Control of Self-Assembly through the Influence of Terminal Hydroxymethyl Groups on the Metal Coordination of Pyrimidineâ^'Hydrazone Cu(II) Complexes. Inorganic Chemistry, 2010, 49, 5923-5934.	4.0	28
24	Reducing the Oxidation Level of Dextran Aldehyde in a Chitosan/Dextran-Based Surgical Hydrogel Increases Biocompatibility and Decreases Antimicrobial Efficacy. International Journal of Molecular Sciences, 2015, 16, 13798-13814.	4.1	28
25	Linear electrochemical actuators with very large strains using carbon nanotube-redox gel composites. Journal of Materials Chemistry A, 2013, 1, 3415.	10.3	24
26	An Atypical Network:â€‰ Noninterpenetrating (10,3)-d Nets Using an Unsymmetrical Flexible Ligand and Ag(I) as Three-Connected Nodes. Crystal Growth and Design, 2007, 7, 1868-1871.	3.0	23
27	Triflate anion and ligand influences in silver(i) coordination polymers of four isomeric dipyridyl ketone oximes. CrystEngComm, 2013, 15, 120-134.	2.6	23
28	Influence of Terminal Acryloyl Arms on the Coordination Chemistry of a Ditopic Pyrimidineâ€“Hydrazone Ligand: Comparison of Pb(II), Zn(II), Cu(II), and Ag(I) Complexes. Inorganic Chemistry, 2013, 52, 2716-2728.	4.0	23
29	Metal Ion-Controlled Self-Assembly Using Pyrimidine Hydrazone Molecular Strands with Terminal Hydroxymethyl Groups: A Comparison of Pb(II) and Zn(II) Complexes. Inorganic Chemistry, 2011, 50, 7637-7649.	4.0	22
30	Extension of a Ï€-stacked N2S ligand to form bi- and tri-nuclear silver(i) complexes. Chemical Communications, 2000, , 783-784.	4.1	21
31	Square-Planar Silver(I)-Containing Polymers Formed from Ï€-Stacked Entities. Crystal Growth and Design, 2006, 6, 833-835.	3.0	21
32	Thiophene S-binding of a conformationally constrained thiophenophane leading to the formation of a copper(i) coordination polymer. Chemical Communications, 2000, , 2465-2466.	4.1	19
33	Câ^'S Bond Cleavage by Chloride in a Thioether N2S2Complex of Platinum. Inorganic Chemistry, 1999, 38, 1634-1637.	4.0	18
34	Effect of anion on Ag(<scp>i</scp>)meso-helical chains formed with 4,4â€²-dipyridyl ketone: solventversusanion bridging and anion effects on the strength of ligand binding. CrystEngComm, 2014, 16, 4587-4601.	2.6	16
35	The efficacy of a novel budesonide chitosan gel on wound healing following endoscopic sinus surgery. International Forum of Allergy and Rhinology, 2018, 8, 435-443.	2.8	16
36	Synthesis and characterisation of fluorescent chitosan derivatives containing substituted naphthalimides. Reactive and Functional Polymers, 2008, 68, 671-678.	4.1	15

#	Article	IF	Citations
37	Characterization of the in vivo host response to a biâ€labeled chitosanâ€dextran based hydrogel for postsurgical adhesion prevention. Journal of Biomedical Materials Research - Part A, 2015, 103, 2611-2620.	4.0	14
38	Synthesis of Diamondoid and Lonsdaleite Networks from the Same Ag(I)â€“Ligand Combination, with Lonsdaleite the Softer Network. Crystal Growth and Design, 2016, 16, 1038-1046.	3.0	14
39	Probing CH-Ï€(alkyne) interactions in a series of ethynylferrocenes. CrystEngComm, 2012, 14, 4369.	2.6	13
40	Metal-Induced Isomerization of a Molecular Strand Containing Contradictory Dynamic Coordination Sites. Inorganic Chemistry, 2014, 53, 2122-2132.	4.0	13
41	Hyperelastic Tough Gels through Macrocrossâ€Linking. Macromolecular Rapid Communications, 2017, 38, 1700103.	3.9	13
42	Use of the oximeâ€“oximato binding mode to stabilise mixed valence copper iodide polymer networks using dipyridyl ketone oxime ligands. CrystEngComm, 2014, 16, 6345-6353.	2.6	12
43	Silver(I) complexes of 2,6-bis(4-pyridylsulfenyl)pyrazine: Interplay of anion coordination and argentophilic interactions. Inorganic Chemistry Communication, 2018, 87, 44-48.	3.9	12
44	Non-interpenetrated Cu-based MOF constructed from a rediscovered tetrahedral ligand. CrystEngComm, 2017, 19, 7236-7243.	2.6	10
45	Tetratopic pyrimidineâ€“hydrazone ligands modified with terminal hydroxymethyl and acryloyl arms and their Pb(<scp>ii</scp>), Zn(<scp>ii</scp>), Cu(<scp>ii</scp>) and Ag(<scp>i</scp>) complexes. Dalton Transactions, 2014, 43, 8205-8218.	3.3	9
46	Subtle Influences of a Flexible Tecton on an R₂²(8) Carboxyl Dimer Synthon: From Molecular Threading to 2D â† 3D Interpenetration. Crystal Growth and Design, 2020, 20, 7805-7821.	3.0	9
47	Pre-organisation or a hydrogen bonding mismatch: silver(I) diamide ligand coordination polymers versus discrete metallo-macrocyclic assemblies. Supramolecular Chemistry, 2012, 24, 627-640.	1.2	8
48	The one pot synthesis of heterobimetallic complexes from a homoditopic pyrimidineâ€“hydrazone ligand. RSC Advances, 2014, 4, 14550-14556.	3.6	8
49	Formation of a robust, double-walled LiMOF from an L-shaped di-substituted N-heterocyclic adamantane-based ligand. Dalton Transactions, 2020, 49, 12009-12017.	3.3	7
50	A Design Strategy for Singleâ€Stranded Helicates using Pyridineâ€Hydrazone Ligands and Pb^{II}. Chemistry - an Asian Journal, 2019, 14, 1184-1193.	3.3	6
51	2-Methyl-4,6-bis(1-methylhydrazino)pyrimidine. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o1546-o1546.	0.2	4
52	N-Methacryloyl-4-(piperidin-1-yl)-1,8-naphthalimide. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1476-o1477.	0.2	4
53	Crystal structure of 4-(prop-2-ynyloxy)-2,2,6,6-tetramethylpiperidin-1-oxyl. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, 130-133.	0.2	4
54	Tough polymeric hydrogels using ion-pair comonomers. Soft Matter, 2020, 16, 2715-2724.	2.7	4

#	Article	IF	Citations
55	Structural Diversity in One-dimensional Coordination Polymers of a Flexible Multimodal Ligand. Supramolecular Chemistry, 2005, 17, 557-565.	1.2	3
56	Structural control in Cu(II) coordination polymers through the conformational flexibility of a 2,3-dipyridyl ketone oxime ligand. Supramolecular Chemistry, 2015, 27, 820-828.	1.2	3
57	A mechanically strengthened polyacrylamide gel matrix fully compatible with electrophoresis of proteins and nucleic acids. Electrophoresis, 2018, 39, 824-832.	2.4	3
58	Structure and packing of aminoxyl and piperidinyl acrylamide monomers. Acta Crystallographica Section C, Structural Chemistry, 2015, 71, 860-866.	0.5	2
59	Gel actuators based on polymeric radicals. RSC Advances, 2019, 9, 33187-33192.	3.6	2
60	Preparation, Properties and Cell Biocompatibility of Room Temperature LCST-Hydrogels Based on Thermoresponsive PEO Stars. Gels, 2021, 7, 84.	4.5	2
61	Crystal structures of the polymer precursors 3-(2,5-dimethoxy-3,4,6-trimethylphenyl)propyl methacrylate and 3-(2,4,5-trimethyl-3,6-dioxocyclohexa-1,4-dienyl)propyl methacrylate. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 658-663.	0.5	2
62	4,5-Dihydrocyclopenta[b]thiophen-6-one. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o371-o372.	0.2	1
63	Orientation of AgI Ions in Coordination Architectures through Ligand Conformation and Anion Binding: from Polymeric Chains to Discrete Squares. European Journal of Inorganic Chemistry, 2018, 2018, 4278-4285.	2.0	1
64	The structure and Hirshfeld surface analysis of the salt 3-methacrylamido-N,N,N-trimethylpropan-1-aminium 2-acrylamido-2-methylpropane-1-sulfonate. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 1445-1451.	0.5	1
65	Crystal structures of two bis(iodomethyl)benzene derivatives: similarities and differences in the crystal packing. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 1505-1509.	0.5	1
66	Structure and Hirshfeld surface analysis of the salt N,N,N-trimethyl-1-(4-vinylphenyl)methanaminium 4-vinylbenzenesulfonate. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 946-950.	0.5	1
67	The effect of chemical and structural modifiers on the haemostatic process and cytotoxicity of the beta-chitin patch. Scientific Reports, 2021, 11, 18577.	3.3	0