

Inigo J Vitorica Yrezabal

List of Publications by Year in descending order

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122
papers

4,090
citations

101384

36
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133063

59
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126
all docs

126
docs citations

126
times ranked

4945
citing authors

#	ARTICLE	IF	CITATIONS
1	Braiding a molecular knot with eight crossings. <i>Science</i> , 2017, 355, 159-162.	6.0	209
2	Allosteric initiation and regulation of catalysis with a molecular knot. <i>Science</i> , 2016, 352, 1555-1559.	6.0	204
3	Confinement of Iodine Molecules into Triple-Helical Chains within Robust Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 16289-16296.	6.6	199
4	A modular design of molecular qubits to implement universal quantum gates. <i>Nature Communications</i> , 2016, 7, 11377.	5.8	196
5	Enhancing electron affinity and tuning band gap in donor-acceptor organic semiconductors by benzothiadiazole directed C-H borylation. <i>Chemical Science</i> , 2015, 6, 5144-5151.	3.7	134
6	Spin-Crossover Modification through Selective CO ₂ Sorption. <i>Journal of the American Chemical Society</i> , 2013, 135, 15986-15989.	6.6	129
7	Cyclometallated ruthenium catalyst enables late-stage directed arylation of pharmaceuticals. <i>Nature Chemistry</i> , 2018, 10, 724-731.	6.6	124
8	Stereoselective synthesis of a composite knot with nine crossings. <i>Nature Chemistry</i> , 2018, 10, 1083-1088.	6.6	114
9	Isorecticular two-dimensional magnetic coordination polymers prepared through pre-synthetic ligand functionalization. <i>Nature Chemistry</i> , 2018, 10, 1001-1007.	6.6	94
10	Making hybrid [n]-rotaxanes as supramolecular arrays of molecular electron spin qubits. <i>Nature Communications</i> , 2016, 7, 10240.	5.8	91
11	A Solomon Link through an Interwoven Molecular Grid. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7555-7559.	7.2	89
12	Lanthanide Template Synthesis of Trefoil Knots of Single Handedness. <i>Journal of the American Chemical Society</i> , 2015, 137, 10437-10442.	6.6	81
13	Crystallographic studies of gas sorption in metal-organic frameworks. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 404-422.	0.5	79
14	Tying a Molecular Overhand Knot of Single Handedness and Asymmetric Catalysis with the Corresponding Pseudo-D ₃ -Symmetric Trefoil Knot. <i>Journal of the American Chemical Society</i> , 2016, 138, 13159-13162.	6.6	75
15	Modulating proton diffusion and conductivity in metal-organic frameworks by incorporation of accessible free carboxylic acid groups. <i>Chemical Science</i> , 2019, 10, 1492-1499.	3.7	68
16	Pyridyl-Acyl Hydrazone Rotaxanes and Molecular Shuttles. <i>Journal of the American Chemical Society</i> , 2017, 139, 7104-7109.	6.6	64
17	Breathing-Dependent Redox Activity in a Tetrathiafulvalene-Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2018, 140, 10562-10569.	6.6	62
18	Switchable Interaction in Molecular Double Qubits. <i>CheM</i> , 2016, 1, 727-752.	5.8	60

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19	Spontaneous Assembly of Rotaxanes from a Primary Amine, Crown Ether and Electrophile. <i>Journal of the American Chemical Society</i> , 2018, 140, 6049-6052.	6.6	59
20	Single-Step Enantioselective Synthesis of Mechanically Planar Chiral [2]Rotaxanes Using a Chiral Leaving Group Strategy. <i>Journal of the American Chemical Society</i> , 2020, 142, 9803-9808.	6.6	58
21	A modular route to boron doped PAHs by combining borylative cyclisation and electrophilic C-H borylation. <i>Chemical Science</i> , 2017, 8, 7969-7977.	3.7	57
22	Expanding the Scope of Molecular Mixed Crystals Enabled by Three Component Solid Solutions. <i>Crystal Growth and Design</i> , 2015, 15, 4098-4103.	1.4	53
23	Molecular Trefoil Knot from a Trimeric Circular Helicate. <i>Journal of the American Chemical Society</i> , 2018, 140, 4982-4985.	6.6	51
24	A highly stable and hierarchical tetrathiafulvalene-based metal-organic framework with improved performance as a solid catalyst. <i>Chemical Science</i> , 2018, 9, 2413-2418.	3.7	50
25	Portraying entanglement between molecular qubits with four-dimensional inelastic neutron scattering. <i>Nature Communications</i> , 2017, 8, 14543.	5.8	48
26	Back-bonding between an electron-poor, high-oxidation-state metal and poor π -acceptor ligand in a uranium(V)-dinitrogen complex. <i>Nature Chemistry</i> , 2019, 11, 806-811.	6.6	47
27	Host-guest selectivity in a series of isorecticular metal-organic frameworks: observation of acetylene-to-alkyne and carbon dioxide-to-amide interactions. <i>Chemical Science</i> , 2019, 10, 1098-1106.	3.7	47
28	Homoleptic Trigonal Planar Lanthanide Complexes Stabilized by Superbulky Silylamide Ligands. <i>Organometallics</i> , 2015, 34, 2314-2325.	1.1	45
29	Coordination Chemistry of a Molecular Pentafoil Knot. <i>Journal of the American Chemical Society</i> , 2019, 141, 3952-3958.	6.6	43
30	Controlled Synthesis of Nanoscopic Metal Cages. <i>Journal of the American Chemical Society</i> , 2015, 137, 7644-7647.	6.6	41
31	Weak functional group interactions revealed through metal-free active template rotaxane synthesis. <i>Nature Communications</i> , 2020, 11, 744.	5.8	41
32	Electronic, Structural and Functional Versatility in Tetrathiafulvalene-Lanthanide Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2019, 25, 12636-12643.	1.7	40
33	[U ^{III}]{N(SiMe ₂ tBu) ₂ } ₃ : A Structurally Authenticated Trigonal Planar Actinide Complex. <i>Chemistry - A European Journal</i> , 2014, 20, 14579-14583.	1.7	39
34	Novel Xanthate Complexes for the Size-Controlled Synthesis of Copper Sulfide Nanorods. <i>Inorganic Chemistry</i> , 2017, 56, 9247-9254.	1.9	39
35	Synthesis and polymorphism of (4-ClpyH) ₂ [CuCl ₄]: solid-gas and solid-solid reactions. <i>CrystEngComm</i> , 2011, 13, 3189-3196.	1.3	38
36	Catalytic Asymmetric C-H Arylation of (η^6 -Arene)Chromium Complexes: Facile Access to Planar-Chiral Phosphines. <i>ACS Catalysis</i> , 2019, 9, 5268-5278.	5.5	37

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37	Highly Emissive Far Red/Near-IR Fluorophores Based on Borylated Fluorene-Benzothiadiazole Donor-Acceptor Materials. <i>Chemistry - A European Journal</i> , 2016, 22, 12439-12448.	1.7	36
38	Chemical transformations of a crystalline coordination polymer: a multi-stage solid-vapour reaction manifold. <i>Chemical Science</i> , 2013, 4, 696-708.	3.7	35
39	A Six-Crossing Doubly Interlocked [2]Catenane with Twisted Rings, and a Molecular Granny Knot. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13833-13837.	7.2	35
40	Inter- and intra-molecular C-H borylation for the formation of PAHs containing triarylborane and indole units. <i>Dalton Transactions</i> , 2016, 45, 17160-17167.	1.6	34
41	Magnetic Exchange Interactions in the Molecular Nanomagnet Mn_{12} Physical Review Letters, 2017, 119, 217202.	2.9	34
42	Switchable foldamer ion channels with antibacterial activity. <i>Chemical Science</i> , 2020, 11, 7023-7030.	3.7	34
43	Salts, Cocrystals, and Ionic Cocrystals of a Simple-Tautomeric Compound. <i>Crystal Growth and Design</i> , 2018, 18, 6973-6983.	1.4	32
44	Ag/Pd Cocatalyzed Direct Arylation of Fluoroarene Derivatives with Aryl Bromides. <i>ACS Catalysis</i> , 2020, 10, 2100-2107.	5.5	32
45	Quantum spin coherence in halogen-modified Cr_7Ni molecular nanomagnets. <i>Physical Review B</i> , 2014, 90, .	1.1	29
46	A Simple and Highly Effective Ligand System for the Copper(I)-Mediated Assembly of Rotaxanes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13771-13774.	7.2	28
47	A Chiral Cyclometalated Iridium Star of David [2]Catenane. <i>Journal of the American Chemical Society</i> , 2021, 143, 1154-1161.	6.6	28
48	Studies of a Large Odd-Numbered Electron Metal Ring: Inelastic Neutron Scattering and Muon Spin Relaxation Spectroscopy of Cr_8Mn . <i>Chemistry - A European Journal</i> , 2016, 22, 1779-1788.	1.7	27
49	$[\text{CrF}(\text{O})_2\text{C}(\text{tBu})_2\text{O}]_9$: Synthesis and Characterization of a Regular Homometallic Ring with an Odd Number of Metal Centers and Electrons. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8856-8859.	7.2	26
50	Semiconductor Porous Hydrogen-Bonded Organic Frameworks Based on Tetrathiafulvalene Derivatives. <i>Journal of the American Chemical Society</i> , 2022, 144, 9074-9082.	6.6	26
51	Coordination Polymer Flexibility Leads to Polymorphism and Enables a Crystalline Solid-Vapour Reaction: A Multi-technique Mechanistic Study. <i>Chemistry - A European Journal</i> , 2015, 21, 8799-8811.	1.7	25
52	The carboboration of Me ₃ Si-substituted alkynes and allenes with boranes and borocations. <i>Dalton Transactions</i> , 2016, 45, 6060-6070.	1.6	25
53	Borylated Arylamine-Benzothiadiazole Donor-Acceptor Materials as Low-LUMO, Low-Band-Gap Chromophores. <i>Organometallics</i> , 2017, 36, 2597-2604.	1.1	25
54	An Extensive Family of Heterometallic Titanium(IV)-Metal(III) Rings with Structure Control through Templates. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13629-13632.	7.2	25

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55	Chemical vapor deposition of tin sulfide from diorganotin(IV) dioxanthenes. <i>Journal of Materials Science</i> , 2019, 54, 2315-2323.	1.7	24
56	Coherent Spin Dynamics in Molecular Cr ₈ Zn Wheels. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 5062-5066.	2.1	23
57	Chemical Design and Magnetic Ordering in Thin Layers of 2D Metal-Organic Frameworks (MOFs). <i>Journal of the American Chemical Society</i> , 2021, 143, 18502-18510.	6.6	22
58	Hybrid Organic-Inorganic Rotaxanes, Including a Hetero-Hybrid [3]Rotaxane Featuring Two Distinct Heterometallic Rings and a Molecular Shuttle. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10919-10922.	7.2	21
59	Synthesis of nanostructured powders and thin films of iron sulfide from molecular precursors. <i>RSC Advances</i> , 2018, 8, 29096-29103.	1.7	21
60	1,1/1,2 Isomerisation in Lewis base adducts of B ₂ cat ₂ . <i>Dalton Transactions</i> , 2015, 44, 7506-7511.	1.6	20
61	Anisotropy of Co ^{II} transferred to the Cr ₇ Co polymetallic cluster <i>via</i> strong exchange interactions. <i>Chemical Science</i> , 2018, 9, 3555-3562.	3.7	20
62	A [13]rotaxane assembled via a palladium molecular capsule. <i>Nature Communications</i> , 2019, 10, 3720.	5.8	19
63	Targeting molecular quantum memory with embedded error correction. <i>Chemical Science</i> , 2021, 12, 9104-9113.	3.7	19
64	Binding CO ₂ by a Cr ₈ Metallacrown. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5527-5530.	7.2	18
65	Optically Active Vibrational Spectroscopy of α -Aminoisobutyric Acid Foldamers in Organic Solvents and Phospholipid Bilayers. <i>Chemistry - A European Journal</i> , 2018, 24, 9399-9408.	1.7	18
66	Arene Selectivity by a Flexible Coordination Polymer Host. <i>Chemistry - A European Journal</i> , 2016, 22, 13120-13126.	1.7	17
67	Linking Cr ₃ triangles through phosphonates and lanthanides: synthetic, structural, magnetic and EPR studies. <i>Dalton Transactions</i> , 2014, 43, 13242-13249.	1.6	16
68	Electronic Structure of a Mixed-Metal Fluoride-Centered Triangle Complex: A Potential Qubit Component. <i>Inorganic Chemistry</i> , 2015, 54, 12019-12026.	1.9	16
69	Salt metathesis versus protonolysis routes for the synthesis of silylamide Hauser base (R ₂ NMgX; X =) <i>Tj ETQq1 1 0.784314 rgBT /Ove</i>	1.6	16
70	On the phase control of CuInS ₂ nanoparticles from Cu-/In-xanthates. <i>Dalton Transactions</i> , 2018, 47, 5304-5309.	1.6	16
71	Gas confinement in compartmentalized coordination polymers for highly selective sorption. <i>Chemical Science</i> , 2017, 8, 3109-3120.	3.7	15
72	A Six-Crossing Doubly Interlocked [2]Catenane with Twisted Rings, and a Molecular Granny Knot. <i>Angewandte Chemie</i> , 2018, 130, 14029-14033.	1.6	15

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73	Salt metathesis routes to homoleptic near-linear Mg($\text{Mg}(\text{scp})_2$) and Ca($\text{Ca}(\text{scp})_2$) bulky bis(silyl)amide complexes. Dalton Transactions, 2018, 47, 12526-12533.	1.6	14
74	Remote conformational responses to enantiomeric excess in carboxylate-binding dynamic foldamers. Chemical Communications, 2019, 55, 9331-9334.	2.2	14
75	Enhanced proton conductivity in a flexible metal-organic framework promoted by single-crystal-to-single-crystal transformation. Chemical Communications, 2021, 57, 65-68.	2.2	14
76	Multivariate sodalite zeolitic imidazolate frameworks: a direct solvent-free synthesis. Chemical Science, 2022, 13, 842-847.	3.7	13
77	Studies of the Temperature Dependence of the Structure and Magnetism of a Hexagonal-Bipyramidal Dysprosium(III) Single-Molecule Magnet. Inorganic Chemistry, 2022, 61, 227-235.	1.9	13
78	The Synthesis of Group 10 and 11 Metal Complexes of 3,6,9-Trithia-1,4,7-triazacyclodecaphane and Their Use in $\text{C}-\text{C}$ Coupling Reactions. European Journal of Organic Chemistry, 2017, 2017, 5252-5261.	1.2	12
79	Conformational Flexibility of Hybrid [3]- and [4]-Rotaxanes. Journal of the American Chemical Society, 2020, 142, 15941-15949.	6.6	12
80	Effects of turn-structure on folding and entanglement in artificial molecular overhand knots. Chemical Science, 2021, 12, 1826-1833.	3.7	12
81	Important Phase Control of Indium Sulfide Nanomaterials by Choice of Indium(III) Xanthate Precursor and Thermolysis Temperature. European Journal of Inorganic Chemistry, 2019, 2019, 1421-1432.	1.0	11
82	Effects of the Dzyaloshinskii-Moriya interaction in Cr_3 triangular spin clusters detected by specific heat and multi-frequency electron spin resonance. Dalton Transactions, 2015, 44, 14027-14033.	1.6	10
83	$[\text{CrF}(\text{O})_2\text{C}(\text{Bu})_2]_9$: Synthesis and Characterization of a Regular Homometallic Ring with an Odd Number of Metal Centers and Electrons. Angewandte Chemie, 2016, 128, 9002-9005.	1.6	10
84	The synthesis of a monodisperse quaternary ferrite (FeCoCrO_4) from the hot injection thermolysis of the single source precursor $[\text{CrCoFeO}(\text{O})_2\text{C}(\text{Bu})_6(\text{HO})_2\text{C}(\text{Bu})_3]$. Dalton Transactions, 2018, 47, 376-381.	1.6	10
85	Influence of interpenetration on the flexibility of MUV-2 . CrystEngComm, 2019, 21, 3031-3035.	1.3	10
86	Solvent-vapour-assisted pathways and the role of pre-organization in solid-state transformations of coordination polymers. IUCr, 2015, 2, 188-197.	1.0	10
87	Accessing Ga_2S_3 by solventless thermolysis of gallium xanthates: a low-temperature limit for crystalline products. Dalton Transactions, 2019, 48, 15605-15612.	1.6	8
88	Crystal structures and physicochemical studies of some novel divalent and trivalent transition metal chelates of N-morpholine-N'-benzoylthiourea. Journal of Molecular Structure, 2021, 1229, 129791.	1.8	8
89	Binding of halogens by a Cr_8 metallocrown. Dalton Transactions, 2018, 47, 13771-13775.	1.6	7
90	Heterometallic 3d-4f Complexes as Air-Stable Molecular Precursors in Low Temperature Syntheses of Stoichiometric Rare-Earth Orthoferrite Powders. Inorganic Chemistry, 2020, 59, 15796-15806.	1.9	7

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91	Formation of an interlocked double-chain from an organic–inorganic [2]rotaxane. <i>Chemical Communications</i> , 2019, 55, 2960-2963.	2.2	6
92	Investigating the Effect of Steric Hindrance within CdS Single-Source Precursors on the Material Properties of AACVD and Spin-Coat-Deposited CdS Thin Films. <i>Inorganic Chemistry</i> , 2022, 61, 8206-8216.	1.9	6
93	Arene guest selectivity and pore flexibility in a metal–organic framework with semi-fluorinated channel walls. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160031.	1.6	5
94	An Extensive Family of Heterometallic Titanium(IV)–Metal(III) Rings with Structure Control through Templates. <i>Angewandte Chemie</i> , 2017, 129, 13817-13820.	1.6	5
95	Synthesis of iron sulfide thin films and powders from new xanthate precursors. <i>Journal of Crystal Growth</i> , 2019, 522, 175-182.	0.7	5
96	Radical Truce-Smiles reactions on an isoxazole template: Scope and limitations. <i>Tetrahedron</i> , 2019, 75, 2413-2430.	1.0	5
97	Crystal structures of tolfenamic acid polymorphic forms I and II with precise hydrogen-atom positions for nuclear magnetic resonance studies. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2020, 76, 1421-1426.	0.2	5
98	Binding CO ₂ by a Cr ₈ Metallacrown. <i>Angewandte Chemie</i> , 2017, 129, 5619-5622.	1.6	4
99	C–H Borylation/Cross-Coupling Forms Twisted Donor–Acceptor Compounds Exhibiting Donor-Dependent Delayed Emission. <i>Chemistry - A European Journal</i> , 2018, 24, 10521-10530.	1.7	4
100	Hybrid Organic–Inorganic Rotaxanes, Including a Hetero-Hybrid [3]Rotaxane Featuring Two Distinct Heterometallic Rings and a Molecular Shuttle. <i>Angewandte Chemie</i> , 2018, 130, 11085-11088.	1.6	4
101	Novel semiconducting iron–quinizarin metal–organic framework for application in supercapacitors. <i>Molecular Physics</i> , 2019, 117, 3424-3433.	0.8	4
102	Heteroallene Capture and Exchange at Functionalised Heptaphosphane Clusters. <i>Chemistry - A European Journal</i> , 2022, 28, e202103737.	1.7	4
103	Reversible uptake of sulfur-containing gases by single crystals of a Cr ₈ metallacrown. <i>Dalton Transactions</i> , 2019, 48, 13184-13189.	1.6	3
104	Exploring the Coordination of Plutonium and Mixed Plutonyl–Uranyl Complexes of Imidodiphosphinates. <i>Inorganic Chemistry</i> , 2019, 58, 6904-6917.	1.9	3
105	Synthesis and characterization of the mixed-ligand coordination polymer Cu ₃ Cl(N ₄ C-NO ₂) ₂ . <i>Dalton Transactions</i> , 2020, 49, 14975-14984.	1.6	3
106	An electric field cell for performing <i>in situ</i> single-crystal synchrotron X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2021, 54, 1349-1359.	1.9	3
107	Structural Investigations of ±-MnS Nanocrystals and Thin Films Synthesized from Manganese(II) Xanthates by Hot Injection, Solvent-Less Thermolysis, and Doctor Blade Routes. <i>ACS Omega</i> , 2021, 6, 27716-27725.	1.6	3
108	Functionalized Tris(anilido)triazacyclononanes as Hexadentate Ligands for the Encapsulation of U(III), U(IV) and La(III) Cations. <i>Inorganics</i> , 2021, 9, 86.	1.2	3

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109	±-Amino-iso Butyric Acid Foldamers Terminated with Rhodium(I) N-Heterocyclic Carbene Catalysts. Chemistry - A European Journal, 2021, , .	1.7	3
110	Crystal structure of diethyl 3,3'-bis(2,2'-(1E)-[1,4-phenylenebis(azan-1-yl-1-ylidene)]bis(methan-1-yl-1-ylidene)bis(1H-pyrrole-2,1-diyl))dipropionate. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, o259-o260.	0.0	2
111	Chromium chains as polydentate fluoride ligands for actinides and group IV metals. Dalton Transactions, 2018, 47, 6361-6369.	1.6	2
112	Single Ion Anisotropy of CrIII and FeIII in a Series of {Ti7M} Rings. Applied Magnetic Resonance, 2020, 51, 1251-1265.	0.6	2
113	Gold(III) bridged dimeric and trimeric heterometallic {Cr7Ni}-based qubit systems and their characterization. Dalton Transactions, 2021, 50, 4390-4395.	1.6	2
114	Solid state structure of sodium 2-thiophenyl glucuronate identifies 5-coordinate sodium with three independent glucuronates. Carbohydrate Research, 2021, 502, 108281.	1.1	2
115	Self-assembly of a trigonal bipyramidal architecture with stabilisation of iron in three spin states. Chemical Communications, 2021, 57, 11252-11255.	2.2	1
116	A fluorinated 2D magnetic coordination polymer. Dalton Transactions, 2022, 51, 1861-1865.	1.6	1
117	Innenrückblick: A Solomon Link through an Interwoven Molecular Grid (Angew. Chem. 26/2015). Angewandte Chemie, 2015, 127, 7829-7829.	1.6	0
118	Uptake and release of small molecules by flexible 1D coordination polymers that exhibit latent nanoporosity. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s132-s132.	0.0	0
119	Crystal structure of diethyl 2,2'-bis(2,2'-(1E)-[1,4-phenylenebis(azan-1-yl-1-ylidene)]bis(methanylylidene))bis(1H-pyrrole-2,1-diyl)diacetate. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, o165-o166.	0.0	0
120	Flexibility and chemical transformations in network and framework materials. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, s156-s156.	0.3	0
121	Molecular trapping by flexible coordination polymers with latent porosity. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C908-C908.	0.0	0
122	Structural Investigation of Magnesium Complexes Supported by a Thiopyridyl Scorpionate Ligand. Molecules, 2022, 27, 4564.	1.7	0