Giovanni Battista Giovenzana

List of Publications by Year
in descending order

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124 papers	3,858 citations	109137 35 h-index	143772 57 g-index
138 all docs	138 docs citations	138 times ranked	3591 citing authors

#	Article	IF	Citations
1	High sensitivity lanthanide(III) based probes for MR-medical imaging. Coordination Chemistry Reviews, 2006, 250, 1562-1579.	9.5	284
2	[Gd-AAZTA]-:Â A New Structural Entry for an Improved Generation of MRI Contrast Agents. Inorganic Chemistry, 2004, 43, 7588-7590.	1.9	217
3	The synthesis and application of polyamino polycarboxylic bifunctional chelating agents. Chemical Society Reviews, 2011, 40, 3019.	18.7	153
4	Ternary Gd(III)L-HSA adducts: evidence for the replacement of inner-sphere water molecules by coordinating groups of the protein. Implications for the design of contrast agents for MRI. Journal of Biological Inorganic Chemistry, 2000, 5, 488-497.	1.1	140
5	Azomethine Ylide Cycloaddition/Reductive Heterocyclization Approach to Oxindole Alkaloids:Â Asymmetric Synthesis of (â^')-Horsfiline. Journal of Organic Chemistry, 2001, 66, 8447-8453.	1.7	131
6	Synthesis and NMR Studies of Three Pyridine-Containing Triaza Macrocyclic Triacetate Ligands and Their Complexes with Lanthanide Ions. Inorganic Chemistry, 1997, 36, 2992-3000.	1.9	119
7	Relaxometric and Modelling Studies of the Binding of a Lipophilic Gd-AAZTA Complex to Fatted and Defatted Human Serum Albumin. Chemistry - A European Journal, 2007, 13, 5785-5797.	1.7	93
8	Equilibrium and Kinetic Properties of the Lanthanoids(III) and Various Divalent Metal Complexes of the Heptadentate Ligand AAZTA. Chemistry - A European Journal, 2009, 15, 1696-1705.	1.7	90
9	[GdPCP2A(H2O)2]-: A Paramagnetic Contrast Agent Designed for Improved Applications in Magnetic Resonance Imaging. Journal of Medicinal Chemistry, 2000, 43, 4017-4024.	2.9	86
10	Synthesis of carboranyl derivatives of alkynyl glycosides as potential BNCT agents. Tetrahedron, 1999, 55, 14123-14136.	1.0	78
11	Towards MRI contrast agents of improved efficacy. NMR relaxometric investigations of the binding interaction to HSA of a novel heptadentate macrocyclic triphosphonate Gd(III)-complex. Journal of Biological Inorganic Chemistry, 1997, 2, 470-479.	1.1	77
12	Designing Novel Contrast Agents for Magnetic Resonance Imaging. Synthesis and Relaxometric Characterization of three Gadolinium(III) Complexes Based on Functionalized Pyridine-Containing Macrocyclic Ligands. Helvetica Chimica Acta, 2003, 86, 615-632.	1.0	75
13	A Mimicry of Primary Amines by Bis-Secondary Diamines as Components in the Ugi Four-Component Reaction. Angewandte Chemie - International Edition, 2006, 45, 1099-1102.	7.2	74
14	Determination of water permeability of paramagnetic liposomes of interest in MRI field. Journal of Inorganic Biochemistry, 2008, 102, 1112-1119.	1.5	70
15	Non-covalent Conjugates between Cationic Polyamino Acids and GdIII Chelates: A Route for Seeking Accumulation of MRI-Contrast Agents at Tumor Targeting Sites. Chemistry - A European Journal, 2000, 6, 2609-2617.	1.7	69
16	Novel Paramagnetic Macromolecular Complexes Derived from the Linkage of a Macrocyclic Gd(III) Complex to Polyamino Acids through a Squaric Acid Moiety. Bioconjugate Chemistry, 1999, 10, 192-199.	1.8	66
17	High-Relaxivity Gadolinium-Modified High-Density Lipoproteins as Magnetic Resonance Imaging Contrast Agents. Journal of Physical Chemistry B, 2009, 113, 6283-6289.	1.2	62
18	Magnetic Resonance Imaging Detection of Tumor Cells by Targeting Low-Density Lipoprotein Receptors with Gd-Loaded Low-Density Lipoprotein Particles. Neoplasia, 2007, 9, 1046-1056.	2.3	59

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19	New Hyperpolarized Contrast Agents for 13C-MRI from Para-Hydrogenation of Oligooxyethylenic Alkynes. Journal of the American Chemical Society, 2008, 130, 15047-15053.	6.6	58
20	A straightforward entry into enantiomerically enriched Î²-amino-Î±-hydroxyphosphonic acid derivatives. Tetrahedron: Asymmetry, 1998, 9, 745-748.	1.8	55
21	AAZTA: An Ideal Chelating Agent for the Development of ⁴⁴Sc PET Imaging Agents. Angewandte Chemie - International Edition, 2017, 56, 2118-2122.	7.2	53
22	A Concise Entry into Nonsymmetrical Alkyl Polyamines. Organic Letters, 2008, 10, 4199-4202.	2.4	51
23	Maximizing the relaxivity of HSA-bound gadolinium complexes by simultaneous optimization of rotation and water exchange. Chemical Communications, 2007, , 4726.	2.2	49
24	Fast and easy access to efficient bifunctional chelators for MRI applications. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3442-3444.	1.0	49
25	Dual MRI-SPECT agent for pH-mapping. Chemical Communications, 2011, 47, 1539-1541.	2.2	49
26	Equilibrium, Kinetic and Structural Studies of AAZTA Complexes with Ga³⁺, In³⁺ and Cu²⁺. European Journal of Inorganic Chemistry, 2013, 2013, 147-162.	1.0	49
27	Contrast Agents for Magnetic Resonance Imaging: A Novel Route to Enhanced Relaxivities Based on the Interaction of a GdIII Chelate with Poly-Î²-cyclodextrins. Chemistry - A European Journal, 1999, 5, 1253-1260.	1.7	45
28	Gd-AAZTA-MADEC, an improved blood pool agent for DCE-MRI studies on mice on 1ÂT scanners. Biomaterials, 2016, 75, 47-57.	5.7	41
29	A Straightforward Entry into Polyketide Monoprenylated Furanocoumarins and Pyranocoumarins1. Journal of Natural Products, 1999, 62, 1627-1631.	1.5	40
30	Synthesis of Furocoumarins via Rhodium(II)-Catalysed Heterocyclisation of 3-Diazobenzopyran-2,4-(3H)-dione with Terminal Alkynes. Synthesis, 2001, 2001, 0735-0740.	1.2	40
31	MRI Contrast agents: macrocyclic lanthanide(III) complexes with improved relaxation efficiency. Journal of the Chemical Society Chemical Communications, 1995, , 1885.	2.0	38
32	¹⁵N Magnetic Resonance Hyperpolarization via the Reaction of Parahydrogen with ¹⁵N-Propargylcholine. Journal of the American Chemical Society, 2012, 134, 11146-11152.	6.6	38
33	Crystal structure of the Anopheles gambiae 3-hydroxykynurenine transaminase. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5711-5716.	3.3	37
34	Lower Ligand Denticity Leading to Improved Thermodynamic and Kinetic Stability of the Gd³⁺ Complex: The Strange Case of OBETA. Chemistry - A European Journal, 2012, 18, 7680-7685.	1.7	37
35	Application of the Ugi four-component reaction to the synthesis of ditopic bifunctional chelating agents. Organic and Biomolecular Chemistry, 2009, 7, 4406.	1.5	36
36	Relaxometric Investigations and MRI Evaluation of a Liposome-Loaded pH-Responsive Gadolinium(III) Complex. Inorganic Chemistry, 2012, 51, 7210-7217.	1.9	35

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37	Expeditious N-monoalkylation of 1,4,7,10-tetraazacyclododecane (cyclen) via formamido protection. Tetrahedron Letters, 2000, 41, 6527-6530.	0.7	34
38	Convolutamydine A: the first authenticated absolute configuration and enantioselective synthesis. Tetrahedron: Asymmetry, 2006, 17, 3070-3074.	1.8	34
39	Synthesis of C2-symmetrical diamine based on (1R)-(+)-camphor and application to oxidative aryl coupling of naphthols. Tetrahedron: Asymmetry, 2003, 14, 1451-1454.	1.8	31
40	Lower Denticity Leading to Higher Stability: Structural and Solution Studies of Ln(III)â€“OBETA Complexes. Inorganic Chemistry, 2014, 53, 12499-12511.	1.9	31
41	Polyoxygenated coumarins. Oxonium ylides en route to polyoxa-macrocyclic coumarins. Tetrahedron, 1999, 55, 6577-6584.	1.0	30
42	Dramatic Increase of Selectivity for Heavy Lanthanide(III) Cations by Tuning the Flexibility of Polydentate Chelators. Inorganic Chemistry, 2010, 49, 616-625.	1.9	30
43	Gdâ€Aminoethylâ€DO3A Complexes: A Novel Class of pHâ€Sensitive MRI Contrast Agents. European Journal of Inorganic Chemistry, 2012, 2012, 2035-2039.	1.0	30
44	An unusual gadolinium ten-coordinated dimeric complex in the series of MRI contrast agents: Na[Gd(H2O)AAZTA]Â·3H2O. Inorganica Chimica Acta, 2008, 361, 1534-1541.	1.2	29
45	Filling the gap: Chemistry of 3,5-bis(trifluoromethyl)-1H-pyrazoles. Journal of Fluorine Chemistry, 2012, 139, 53-57.	0.9	28
46	Influence of a novel, versatile bifunctional chelator on theranostic properties of a minigastrin analogue. EJNMMI Research, 2015, 5, 74.	1.1	28
47	Lanthanide-Loaded Paramagnetic Liposomes as Switchable Magnetically Oriented Nanovesicles. Inorganic Chemistry, 2008, 47, 2928-2930.	1.9	26
48	Relaxometric Study of a Series of Monoaqua Gd^{III} Complexes of Rigidified EGTAâ€Like Chelators and Their Noncovalent Interaction with Human Serum Albumin. European Journal of Inorganic Chemistry, 2011, 2011, 802-810.	1.0	25
49	Pyrrolizidine alkaloids. A concise entry to (â^')-pyrrolam A. Tetrahedron: Asymmetry, 1997, 8, 515-518.	1.8	24
50	A Novel Method of Cellular Labeling: Anchoring MRâ€Imaging Reporter Particles on the Outer Cell Surface. ChemMedChem, 2008, 3, 60-62.	1.6	24
51	Synthesis and solution thermodynamic study of rigidified and functionalised EGTA derivatives. Organic and Biomolecular Chemistry, 2008, 6, 2361.	1.5	23
52	Equilibrium and NMR Relaxometric Studies on the s-Triazine-Based Heptadentate Ligand PTDITA Showing High Selectivity for Gd³⁺ Ions. Inorganic Chemistry, 2012, 51, 2597-2607.	1.9	23
53	Assessing tumor vascularization as a potential biomarker of imatinib resistance in gastrointestinal stromal tumors by dynamic contrast-enhanced magnetic resonance imaging. Gastric Cancer, 2017, 20, 629-639.	2.7	22
54	Reductive amination with zinc powder in aqueous media. Beilstein Journal of Organic Chemistry, 2011, 7, 1095-1099.	1.3	21

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55	Comprehensive Evaluation of the Physicochemical Properties of Ln^{III} Complexes of Aminoethylâ€DO3A as pHâ€Responsive T₁â€MRI Contrast Agents. Chemistry - A European Journal, 2014, 20, 2933-2944.	1.7	21
56	Synthesis of the Gd(III) complex with a tetrazole-armed macrocyclic ligand as a potential MRI contrast agent. Tetrahedron Letters, 2002, 43, 783-786.	0.7	20
57	Diruthenium(II,II) tetrakis(acetate) as a catalyst of choice for intermolecular insertion of stabilized diazocompounds into Oî—¸H bonds. Tetrahedron Letters, 2002, 43, 3637-3640.	0.7	19
58	Synthesis and comparative anion binding profiles of two di-aqua Eu(iii) complexes. Dalton Transactions, 2010, 39, 9897.	1.6	19
59	Supramolecular assemblies based on amphiphilic Mn²⁺-complexes as high relaxivity MRI probes. Dalton Transactions, 2018, 47, 10660-10670.	1.6	19
60	Mannich Reaction as a New Route to Pyridine-Based Polyaminocarboxylic Ligands. Organic Letters, 2004, 6, 1201-1204.	2.4	18
61	AMPED: a new platform for picolinate based luminescent lanthanide chelates. Dalton Transactions, 2015, 44, 7654-7661.	1.6	18
62	Allylindation of 1H-indole-3-carboxaldehyde in the presence of azolesâ€"revisited. Tetrahedron Letters, 2006, 47, 6439-6443.	0.7	17
63	An enzymatic approach to bifunctional chelating agents. Organic and Biomolecular Chemistry, 2014, 12, 6915-6921.	1.5	17
64	Dehydrative alkylation of alcohols with triethyl methanetricarboxylate under Mitsunobu conditions. Tetrahedron, 1996, 52, 13007-13016.	1.0	16
65	Luminescence properties and solution dynamics of lanthanide complexes composed by a macrocycle hosting site and naphthalene or quinoline appended chromophore. Inorganica Chimica Acta, 2007, 360, 2549-2557.	1.2	16
66	Diethoxyphosphoryl as a Protecting-Activating Group in the Synthesis of Polyazacyclophanes. Helvetica Chimica Acta, 2000, 83, 793-800.	1.0	15
67	Novel functionalized pyridine-containing DTPA-like ligand. Synthesis, computational studies and characterization of the corresponding GdIII complex. Organic and Biomolecular Chemistry, 2007, 5, 2441.	1.5	15
68	Chemoenzymatic stereoconvergent synthesis of 3-O-benzoyl azidosphingosine. Tetrahedron: Asymmetry, 2002, 13, 867-872.	1.8	14
69	One-step synthesis of a new eight-membered cyclic ligand from glycine, formaldehyde and hypophosphorous acid. Tetrahedron Letters, 2002, 43, 8387-8389.	0.7	14
70	Slow clearance gadolinium-based extracellular and intravascular contrast media for three-dimensional MR angiography. Journal of Magnetic Resonance Imaging, 2001, 13, 588-593.	1.9	13
71	Development and validation of a stability-indicating HPLC-UV method for the determination of alizapride and its degradation products. Journal of Pharmaceutical and Biomedical Analysis, 2010, 51, 1024-1031.	1.4	13
72	Synthesis of phosphonic analogues of AAZTAâ€AAZTA=6-Amino-6-methylperhydro-1,4-diazepine-N,Nâ€²,Nâ€³,Nâ€³-tetraacetic acid.â€ and relaxometric evaluation of the corresponding Gd(III) complexes as potential MRI contrast agents. Tetrahedron Letters, 2015, 56, 1994-1997.	0.7	13

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73	Gadolinium(III) Complexes of dota-DerivedN-Sulfonylacetamides (H4(dota-NHSO2R)=10-{2-[(R)sulfonylamino]-2-oxoethyl}-1,4,7,10-tetraazacyclododecane-1,4,7-triacetic) Tj ETQq1 1 0.784314 rgBT /O Chimica Acta, 2005, 88, 588-603.	1.0	12
74	MÃ¶hlauâ€™s Anthradipyrazole Revisited: A New Look at an Old Molecular System. Crystal Growth and Design, 2013, 13, 4948-4956.	1.4	12
75	Camphor-based oxazaphospholanes as chiral templates for the enantioselective synthesis of Î±-chlorophosphonic acids. Tetrahedron: Asymmetry, 1999, 10, 4277-4280.	1.8	11
76	Solution thermodynamics, computational and relaxometric studies of ditopic DO3A-based Mn(<scp>ii</scp>) complexes. New Journal of Chemistry, 2015, 39, 539-547.	1.4	11
77	AAZTA: An Ideal Chelating Agent for the Development of ⁴⁴Sc PET Imaging Agents. Angewandte Chemie, 2017, 129, 2150-2154.	1.6	11
78	PIDAZTA: Structurally Constrained Chelators for the Efficient Formation of Stable Galliumâ€68 Complexes at Physiological pH. Chemistry - A European Journal, 2019, 25, 10698-10709.	1.7	11
79	Towards ²¹³Bi alpha-therapeutics and beyond: unravelling the foundations of efficient Bi^{III} complexation by DOTP. Inorganic Chemistry Frontiers, 2021, 8, 3893-3904.	3.0	11
80	A Practical Synthesis of 1,4,7,10-Tetraaza-Cyclododecane, A Pivotal Precursor for MRI Contrast Agents. Synthetic Communications, 2000, 30, 15-21.	1.1	10
81	Coordination equilibrium in an Ln(III) macrocyclic chelate modulated by a reversible interaction with a weakly donor substituent. Magnetic Resonance in Chemistry, 2002, 40, 87-92.	1.1	10
82	Polycyclic compounds from aminopolyols and Î±-dicarbonyls: structure and application in the synthesis of exoditopic ligands. Organic and Biomolecular Chemistry, 2005, 3, 1489-1494.	1.5	10
83	Influence of gem-Dimethyl Substitution on the Stability, Kinetics and Relaxometric Properties of PDTA Complexes. European Journal of Inorganic Chemistry, 2012, 2012, 2074-2086.	1.0	10
84	Hyperpolarized ¹³Câ€labelled anhydrides as DNP precursors of metabolic MRI agents. Contrast Media and Molecular Imaging, 2012, 7, 469-477.	0.4	10
85	Difluprednate: More than meets the eye. Journal of Pharmaceutical and Biomedical Analysis, 2015, 102, 305-313.	1.4	10
86	Palladium-catalysed coupling between allyl carbonates and triethyl methanetricarboxylate (TEMT). Tetrahedron, 1998, 54, 1639-1646.	1.0	9
87	Structures from powders: Diflorasone diacetate. Steroids, 2009, 74, 102-111.	0.8	9
88	Fluorescence studies on 2-(het)aryl perimidine derivatives. Journal of Luminescence, 2016, 179, 384-392.	1.5	9
89	A concise and efficient synthesis of vildagliptin. Tetrahedron Letters, 2017, 58, 3426-3428.	0.7	9
90	Enhanced relaxivity of Gd^{III}-complexes with HP-DO3A-like ligands upon the activation of the intramolecular catalysis of the prototropic exchange. Inorganic Chemistry Frontiers, 2021, 8, 1500-1510.	3.0	9

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91	Synthesis and Relaxometric Properties of Gadolinium(III) Complexes of New Triazineâ€Based Polydentate Ligands. Helvetica Chimica Acta, 2009, 92, 2414-2426.	1.0	8
92	Preparation, crystallographic and theoretical study on a bifunctional Gd-AAZTA derivative as potential MRI contrast agent precursor. Inorganica Chimica Acta, 2013, 407, 306-312.	1.2	8
93	Interaction of macrocyclic gadolinium-based MR contrast agents with Type I collagen. Equilibrium and kinetic studies. Dalton Transactions, 2020, 49, 14863-14870.	1.6	7
94	AAZTA: The rise of mesocyclic chelating agents for metal coordination in medicine. Coordination Chemistry Reviews, 2021, 438, 213908.	9.5	7
95	Synthesis of new polyoxapolycarboxylic ligands for lanthanide(III) ions complexation. Tetrahedron Letters, 2004, 45, 5901-5903.	0.7	6
96	Synthesis and Relaxometric Characterization of a New Mn(II)â€EDTAâ€Deoxycholic Acid Conjugate Complex as a Potential MRI Blood Pool Agent. ChemistrySelect, 2016, 1, 1607-1612.	0.7	6
97	Recent Advances in Bifunctional Paramagnetic Chelates for MRI. Israel Journal of Chemistry, 2017, 57, 825-832.	1.0	6
98	Synthesis and Spectroscopic Characterization of 2-(het)Aryl Perimidine Derivatives with Enhanced Fluorescence Quantum Yields. Journal of Fluorescence, 2019, 29, 495-504.	1.3	6
99	Crystal structure of pirfenidone (5-methyl-1-phenyl-1H-pyridin-2-one): an active pharmaceutical ingredient (API). Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 984-986.	0.2	6
100	Rhodium(II) catalysed decomposition of 3-diazo-4-hydroxycoumarin. Journal of Molecular Catalysis A, 2000, 164, 165-171.	4.8	5
101	CAMPHOR-BASED CHIRAL AUXILIARY: FORMAL SYNTHESIS OF ENANTIOMERICALLY ENRICHED Î²-AMINOPHOSPHONIC ACIDS VIA PTC ALKYLATION. Synthetic Communications, 2001, 31, 1013-1020.	1.1	5
102	A degradation product of halobetasol propionateâ€"Characterization and structure. Steroids, 2007, 72, 787-791.	0.8	5
103	Carbon coated microshells containing nanosized Gd(iii) oxidic phases for multiple bio-medical applications. Chemical Communications, 2008, , 5936.	2.2	5
104	N-Arylbenzamides: extremely simple scaffolds for the development of novel estrogen receptor agonists. Journal of Enzyme Inhibition and Medicinal Chemistry, 2013, 28, 148-152.	2.5	5
105	Influence of Silicodactyly in the Preparation of Hybrid Materials. Molecules, 2019, 24, 848.	1.7	5
106	Unprecedented Formation of 2,5â€Diaminoquinones from the Reaction of Vanillin with Secondary Amines in Aerobic Conditions. European Journal of Organic Chemistry, 2020, 2020, 136-139.	1.2	5
107	Stevens rearrangement as a tool for the structural modification of polyaminopolycarboxylic ligands. Organic and Biomolecular Chemistry, 2011, 9, 679.	1.5	4
108	Synthesis of an Amphiphilic Bisâ€Aqua Gd(OBETA) Complex for the Preparation of Highâ€Relaxivity Supramolecular Magnetic Resonance Imaging Probes. ChemPlusChem, 2016, 81, 235-241.	1.3	4

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109	Insight into the offbeat electrochemical methoxylation of isatin. Tetrahedron Letters, 2000, 41, 8825-8827.	0.7	3
110	NorDATA: An original ligand based on the norbornane skeleton. Synthesis and thermodynamic characterization of metal complexes. Polyhedron, 2008, 27, 3683-3687.	1.0	3
111	$$N$$ N -Polybenzylated alicyclic 1,2-diamines: cytotoxicity and G1 phase arrest in cancer cell line. Molecular Diversity, 2014, 18, 879-886.	2.1	3
112	New insights in oxybutynin chemical stability: Identification in transdermal patches of a new impurity arising from oxybutynin N-oxide rearrangement. European Journal of Pharmaceutical Sciences, 2016, 84, 123-131.	1.9	3
113	cis-IPDTA: An original polyaminopolycarboxylic chelating agent from isophoronediamine. Synthesis and thermodynamic characterization of metal complexes. Polyhedron, 2016, 109, 115-119.	1.0	3
114	Synthesis of bifunctional chelating agents based on mono and diphosphonic derivatives of diethylenetriaminepentaacetic acid. Tetrahedron, 2014, 70, 4809-4813.	1.0	2
115	Chemistry of Molecular Imaging: An Overview. , 2021, , 423-443.		2
116	Predicting the Conformation of Organic Catalysts Grafted on Silica Surfaces with Different Numbers of Tethering Chains: The Silicopodality Concept. Journal of Physical Chemistry C, 2021, 125, 21199-21210.	1.5	2
117	Quinone-related hexacyclic by-products in the production process of exemestane. Steroids, 2017, 120, 26-31.	0.8	1
118	First synthesis of orthogonally 1,7-diprotected cyclens. Organic Chemistry Frontiers, 2019, 6, 1387-1390.	2.3	1
119	Synthesis of Two Novel Mixed Bifunctional Chelating Agents: DO2AP(tBu)4 and DO3AP(tBu)4. Synlett, 2020, 31, 1291-1294.	1.0	1
120	Solvatomorphism of Moxidectin. Molecules, 2021, 26, 4869.	1.7	1
121	Contrast Agents for Magnetic Resonance Imaging: A Novel Route to Enhanced Relaxivities Based on the Interaction of a GdIII Chelate with Poly-Î²-cyclodextrins. , 1999, 5, 1253.		1
122	An Efficient and Scalable Synthesis of Fexofenadine Hydrochloride. ChemistrySelect, 2019, 4, 428-431.	0.7	0
123	Unexpected structural properties of LnIII complexes formed with the heptadentate AAZTA ligand. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e129-e130.	0.0	0
124	A Concise and Safe Synthesis of 1,2,3â€Propanetriamine (PTA). European Journal of Organic Chemistry, 2022, 2022, .	1.2	0