

# Gyula TircsÃ³

## List of Publications by Year in descending order

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78  
papers

2,298  
citations

172207

29  
h-index

233125

45  
g-index

80  
all docs

80  
docs citations

80  
times ranked

1805  
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Oxygen Containing Pyclen-Type Ligand as a Manganese(II) Binder for MRI and <sup>52</sup> Mn PET Applications: Equilibrium, Kinetic, Relaxometric, Structural and Radiochemical Studies. <i>Molecules</i> , 2022, 27, 371.	1.7	6
2	Stable and inert macrocyclic cobalt(II) and nickel(II) complexes with paraCEST response. <i>Dalton Transactions</i> , 2022, 51, 1580-1593.	1.6	7
3	Synthesis and characterization of a stable and inert Mn(II)-based Zn(II) responsive MRI probe for molecular imaging of glucose stimulated zinc secretion (GSZS). <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 577-583.	3.0	12
4	Rigidified Derivative of the Non-macrocyclic Ligand H <sub>4</sub> OCTAPA for Stable Lanthanide(III) Complexation. <i>Inorganic Chemistry</i> , 2022, 61, 5157-5171.	1.9	11
5	How the Chemical Properties of GBCAs Influence Their Safety Profiles In Vivo. <i>Molecules</i> , 2022, 27, 58.	1.7	10
6	Synthesis, Physicochemical, Labeling and In Vivo Characterization of <sup>44</sup> Sc-Labeled DO3AM-NI as a Hypoxia-Sensitive PET Probe. <i>Pharmaceuticals</i> , 2022, 15, 666.	1.7	2
7	Importance of ligand design in lanthanide azamacrocyclic complexes relevant to biomedical applications. <i>Fundamental Theories of Physics</i> , 2022, , 129-220.	0.1	1
8	Towards <sup>213</sup> Bi alpha-therapeutics and beyond: unravelling the foundations of efficient Bi(III) complexation by DOTP. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3893-3904.	3.0	11
9	Design of polyazamacrocyclic Gd <sup>3+</sup> theranostic agents combining magnetic resonance imaging and two-photon photodynamic therapy. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2213-2224.	3.0	8
10	Pyclen-Based Ligands Bearing Pendant Picolinate Arms for Gadolinium Complexation. <i>Inorganic Chemistry</i> , 2021, 60, 2390-2405.	1.9	12
11	Expanding the Ligand Classes Used for Mn(II) Complexation: Oxa-aza Macrocycles Make the Difference. <i>Molecules</i> , 2021, 26, 1524.	1.7	7
12	2 Gadolinium(III)-Based Contrast Agents for Magnetic Resonance Imaging. A Re-Appraisal. , 2021, , 39-70.		5
13	Complexes of Bifunctional DO3A-N-(±-amino)propionate Ligands with Mg(II), Ca(II), Cu(II), Zn(II), and Lanthanide(III) Ions: Thermodynamic Stability, Formation and Dissociation Kinetics, and Solution Dynamic NMR Studies. <i>Molecules</i> , 2021, 26, 4956.	1.7	2
14	Exploring Cyclic Aminopolycarboxylate Ligands for Sb(III) Complexation: PCTA and Its Derivatives as a Promising Solution. <i>Inorganic Chemistry</i> , 2021, 60, 14253-14262.	1.9	1
15	Complexation of Mn(II) by Rigid Pyclen Diacetates: Equilibrium, Kinetic, Relaxometric, Density Functional Theory, and Superoxide Dismutase Activity Studies. <i>Inorganic Chemistry</i> , 2021, 60, 1133-1148.	1.9	34
16	The Use of the Macrocyclic Chelator DOTA in Radiochemical Separations. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 36-56.	1.0	44
17	Picolinate-appended tacn complexes for bimodal imaging: Radiolabeling, relaxivity, photophysical and electrochemical studies. <i>Journal of Inorganic Biochemistry</i> , 2020, 205, 110978.	1.5	5
18	Manganese Complex of a Rigidified 15-Membered Macrocyclic: A Comprehensive Study. <i>Inorganic Chemistry</i> , 2020, 59, 11366-11376.	1.9	8

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19	Mn(II)-Based MRI Contrast Agent Candidate for Vascular Imaging. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 6057-6065.	2.9	41
20	Formation, stability and catalase-like activity of mononuclear manganese(II) and oxomanganese(IV) complexes in protic and aprotic solvents. <i>New Journal of Chemistry</i> , 2020, 44, 5545-5555.	1.4	8
21	Comparison of the equilibrium, kinetic and water exchange properties of some metal ion-DOTA and DOTA-bis(amide) complexes. <i>Journal of Inorganic Biochemistry</i> , 2020, 206, 111042.	1.5	10
22	Stable and Inert Mn(II)-Based and pH-Responsive Contrast Agents. <i>Journal of the American Chemical Society</i> , 2020, 142, 1662-1666.	6.6	73
23	Unexpected Trends in the Stability and Dissociation Kinetics of Lanthanide(III) Complexes with Cyclen-Based Ligands across the Lanthanide Series. <i>Inorganic Chemistry</i> , 2020, 59, 8184-8195.	1.9	15
24	Dialing in on pharmacological features for a therapeutic antioxidant small molecule. <i>Dalton Transactions</i> , 2019, 48, 12430-12439.	1.6	17
25	Enhancement of the Antioxidant Activity and Neurotherapeutic Features through Pyridol Addition to Tetraazamacrocyclic Molecules. <i>Inorganic Chemistry</i> , 2019, 58, 16771-16784.	1.9	9
26	Taking the next step toward inert Mn <sup>2+</sup> complexes of open-chain ligands: the case of the rigid PhDTA ligand. <i>New Journal of Chemistry</i> , 2018, 42, 8001-8011.	1.4	34
27	Mn <sup>2+</sup> complexes of open-chain ligands with a pyridine backbone: less donor atoms lead to higher kinetic inertness. <i>New Journal of Chemistry</i> , 2018, 42, 8012-8020.	1.4	17
28	Stable and Inert Yttrium(III) Complexes with Pyclen-Based Ligands Bearing Pendant Picolinate Arms: Toward New Pharmaceuticals for <sup>177</sup> Lu-Radiotherapy. <i>Inorganic Chemistry</i> , 2018, 57, 2051-2063.	1.9	25
29	Coordination Properties of GdDO3A-Based Model Compounds of Bioresponsive MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2018, 57, 5973-5986.	1.9	18
30	A Coordination Chemistry Approach to Fine-Tune the Physicochemical Parameters of Lanthanide Complexes Relevant to Medical Applications. <i>Chemistry - A European Journal</i> , 2018, 24, 3127-3131.	1.7	22
31	Remarkable differences and similarities between the isomeric Mn(II)- cis - and trans-1,2-diaminocyclohexane- N , N , N -tetraacetate complexes. <i>Inorganica Chimica Acta</i> , 2018, 472, 254-263. <sup>1,2</sup>		21
32	Effect of the Nature of Donor Atoms on the Thermodynamic, Kinetic and Relaxation Properties of Mn(II) Complexes Formed With Some Trisubstituted 12-Membered Macrocyclic Ligands. <i>Frontiers in Chemistry</i> , 2018, 6, 232.	1.8	39
33	Expanding the Family of Pyclen-Based Ligands Bearing Pendant Picolinate Arms for Lanthanide Complexation. <i>Inorganic Chemistry</i> , 2018, 57, 6932-6945.	1.9	33
34	Lanthanide-Based <sup>195</sup> Tm <sup>2+</sup> and CEST Complexes Provide Insights into the Design of pH Sensitive MRI Agents. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16626-16630.	7.2	20
35	Gallium(III) chelates of mixed phosphonate-carboxylate triazamacrocyclic ligands relevant to nuclear medicine: Structural, stability and in vivo studies. <i>Journal of Inorganic Biochemistry</i> , 2017, 177, 8-16.	1.5	14
36	The role of the capping bond effect on pyclen <sup>nat</sup> Y <sup>3+</sup> / <sup>90</sup> Y <sup>3+</sup> chelates: full control of the regioselective N-functionalization makes the difference. <i>Chemical Communications</i> , 2017, 53, 9534-9537.	2.2	23

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37	Novel CDTA-based, Bifunctional Chelators for Stable and Inert Mn <sup>II</sup> Complexation: Synthesis and Physicochemical Characterization. <i>Inorganic Chemistry</i> , 2017, 56, 7746-7760.	1.9	36
38	Definition of the Labile Capping Bond Effect in Lanthanide Complexes. <i>Chemistry - A European Journal</i> , 2017, 23, 1110-1117.	1.7	24
39	Lanthanide-Based $\text{Ca}^{2+}$ and CEST Complexes Provide Insights into the Design of pH Sensitive MRI Agents. <i>Angewandte Chemie</i> , 2017, 129, 16853-16857.	1.6	2
40	Nyitlinc <sup>3</sup> s makrociklusos aminokarboxil ligandumok szint <sup>3</sup> s f <sup>3</sup> mkomplexeik vizsgálata: koordinációs k <sup>3</sup> mia az orvosi k <sup>3</sup> palkot <sup>3</sup> s szolg <sup>3</sup> lat <sup>3</sup> ban. <i>Magyar Kémiai Folyóirat, Kémiai Közlemények</i> , 2017, 123, 82-93.	0.0	0
41	Approaching the Kinetic Inertness of Macrocyclic Gadolinium(III)-Based MRI Contrast Agents with Highly Rigid Open-Chain Derivatives. <i>Chemistry - A European Journal</i> , 2016, 22, 896-901.	1.7	31
42	Physico-chemical properties of MnII complexes formed with cis- and trans-DO2A: thermodynamic, electrochemical and kinetic studies. <i>Journal of Inorganic Biochemistry</i> , 2016, 163, 206-213.	1.5	36
43	Complexation of Ln <sup>3+</sup> Ions with Cyclam Dipicolinates: A Small Bridge that Makes Huge Differences in Structure, Equilibrium, and Kinetic Properties. <i>Inorganic Chemistry</i> , 2016, 55, 2227-2239.	1.9	26
44	A Pyridine-Based Ligand with Two Hydrazine Functions for Lanthanide Chelation: Remarkable Kinetic Inertness for a Linear, Bishydrated Complex. <i>Inorganic Chemistry</i> , 2015, 54, 5991-6003.	1.9	21
45	H <sub>4</sub> octapa: Highly Stable Complexation of Lanthanide(III) Ions and Copper(II). <i>Inorganic Chemistry</i> , 2015, 54, 2345-2356.	1.9	40
46	[Tl <sup>III</sup> (dota)] <sup>+</sup> : An Extraordinarily Robust Macrocyclic Complex. <i>Inorganic Chemistry</i> , 2015, 54, 5426-5437.	1.9	12
47	Stable Mn <sup>2+</sup> , Cu <sup>2+</sup> and Ln <sup>3+</sup> complexes with cyclen-based ligands functionalized with picolinate pendant arms. <i>Dalton Transactions</i> , 2015, 44, 5017-5031.	1.6	55
48	Equilibrium and dissociation kinetics of the [Al(NOTA)] complex (NOTA=1,4,7-triazacyclononane-1,4,7-triacetate). <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015, 116, 19-33.	0.8	13
49	Lanthanide(III) Complexes with a Reinforced Cyclam Ligand Show Unprecedented Kinetic Inertness. <i>Journal of the American Chemical Society</i> , 2014, 136, 17954-17957.	6.6	53
50	The stereochemistry of amide side chains containing carboxyl groups influences water exchange rates in EuDOTA-tetraamide complexes. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 161-171.	1.1	20
51	Picolinate-Containing Macrocyclic Mn <sup>2+</sup> Complexes as Potential MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2014, 53, 5136-5149.	1.9	54
52	Highly Stable Complexes of Divalent Metal Ions (Mg <sup>2+</sup> , Ca <sup>2+</sup> ,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (Containing a Picolinate Pendant. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 6165-6173.	1.0	14
53	Lanthanide(III) complexes of some natural siderophores: A thermodynamic, kinetic and relaxometric study. <i>Journal of Inorganic Biochemistry</i> , 2013, 127, 53-61.	1.5	10
54	Relaxometric determination of binding between Mn(II)-UDP and Mn(II)-UDP-glucose in aqueous solution. <i>Carbohydrate Research</i> , 2013, 368, 68-72.	1.1	2

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55	Kinetic Inertness of the Mn <sup>2+</sup> Complexes Formed with AAZTA and Some Open-Chain EDTA Derivatives. <i>Inorganic Chemistry</i> , 2012, 51, 10065-10067.	1.9	60
56	Lanthanide Complexes Formed with the Tri- and Tetraacetate Derivatives of Bis(aminomethyl)phosphinic Acid: Equilibrium, Kinetic and NMR Spectroscopic Studies. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2062-2073.	1.0	6
57	Synthesis and Characterization of a Hypoxia-sensitive MRI Probe. <i>Chemistry - A European Journal</i> , 2012, 18, 9669-9676.	1.7	47
58	Analysis of the Conformational Behavior and Stability of the SAP and TSAP Isomers of Lanthanide(III) NB-DOTA-Type Chelates. <i>Inorganic Chemistry</i> , 2011, 50, 7966-7979.	1.9	48
59	Properties, Solution State Behavior, and Crystal Structures of Chelates of DOTMA. <i>Inorganic Chemistry</i> , 2011, 50, 7955-7965.	1.9	86
60	Lanthanide dota-like Complexes Containing a Picolinate Pendant: Structural Entry for the Design of Ln <sup>III</sup> -Based Luminescent Probes. <i>Inorganic Chemistry</i> , 2011, 50, 4125-4141.	1.9	76
61	Investigations into whole water, prototropic and amide proton exchange in lanthanide(III) DOTA-tetraamide chelates. <i>Dalton Transactions</i> , 2011, 40, 6759.	1.6	28
62	Chapter 5.2. The Future of Biomedical Imaging: Synthesis and Chemical Properties of the DTPA and DOTA Derivative Ligands and Their Complexes. <i>RSC Drug Discovery Series</i> , 2011, , 208-260.	0.2	1
63	Gallium(III) Complexes of DOTA and DOTA <sup>+</sup> Monoamide: Kinetic and Thermodynamic Studies. <i>Inorganic Chemistry</i> , 2010, 49, 10960-10969.	1.9	127
64	Lanthanide(III) Complexes of Tris(amide) PCTA Derivatives as Potential Bimodal Magnetic Resonance and Optical Imaging Agents. <i>Chemistry - A European Journal</i> , 2009, 15, 13188-13200.	1.7	38
65	Modulation of water exchange in Eu(III) DOTA <sup>+</sup> tetraamide complexes: considerations for <i>in vivo</i> imaging of PARACEST agents. <i>Contrast Media and Molecular Imaging</i> , 2009, 4, 183-191.	0.4	56
66	Synthesis and evaluation of lanthanide ion DOTA <sup>+</sup> tetraamide complexes bearing peripheral hydroxyl groups. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 421-438.	1.1	15
67	Effect of the Regiochemistry of Butyl Amide Substituents on the Solution-State Structures of Lanthanide(III) DOTA-Tetraamide Complexes. <i>Inorganic Chemistry</i> , 2009, 48, 10338-10345.	1.9	28
68	( <i>S</i> )-5-( <i>p</i> -Nitrobenzyl)-PCTA, a Promising Bifunctional Ligand with Advantageous Metal Ion Complexation Kinetics. <i>Bioconjugate Chemistry</i> , 2009, 20, 565-575.	1.8	53
69	A Bridge to Coordination Isomer Selection in Lanthanide(III) DOTA-tetraamide Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 2584-2595.	1.9	39
70	Potentiometric and Relaxometric Properties of a Gadolinium-Based MRI Contrast Agent for Sensing Tissue pH. <i>Inorganic Chemistry</i> , 2007, 46, 5260-5270.	1.9	116
71	Complexation Properties of the Di-, Tri-, and Tetraacetate Derivatives of Bis(aminomethyl)phosphinic Acid. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 701-713.	1.0	19
72	Synthesis and Characterization of DOTA-(amide) <sub>4</sub> Derivatives: Equilibrium and Kinetic Behavior of Their Lanthanide(III) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 4340-4349.	1.0	66

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73	Albumin-binding PARACEST agents. <i>Journal of Biological Inorganic Chemistry</i> , 2007, 12, 855-865.	1.1	36
74	Equilibria and Structure of the Lanthanide(III)-2-hydroxy-1,3-diaminopropane-N,N,N',N'-tetraacetate Complexes: Formation of Alkoxo-Bridged Dimers in Solid State and Solution. <i>Inorganic Chemistry</i> , 2006, 45, 4951-4962.	1.9	8
75	Equilibrium and Formation/Dissociation Kinetics of Some LnIII PCTA Complexes. <i>Inorganic Chemistry</i> , 2006, 45, 9269-9280.	1.9	92
76	Copper(II) complexes of some N-substituted bis(aminomethyl)phosphinate ligands. An integrated EPR study of microspeciation and coordination modes by the two-dimensional simulation method. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1655-1666.	1.5	11
77	Synthesis, Relaxometric and Photophysical Properties of a New pH-Responsive MRI Contrast Agent: The Effect of Other Ligating Groups on Dissociation of a p-Nitrophenolic Pendant Arm. <i>Journal of the American Chemical Society</i> , 2004, 126, 9248-9256.	6.6	128
78	Exceptionally fast formation of stable rigidified cross-bridged complexes formed with Cu(II) isotopes for molecular imaging. <i>Inorganic Chemistry Frontiers</i> , 0, , .	3.0	1