

Tripier Raphael

List of Publications by Year in descending order

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90
papers

2,068
citations

201674

27
h-index

289244

40
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all docs

95
docs citations

95
times ranked

1838
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of Zr(^{IV}) and ⁸⁹ Zr(^{IV}) complexation with hydroxamates: progress towards designing a better chelator than desferrioxamine B for immuno-PET imaging. <i>Chemical Communications</i> , 2013, 49, 1002-1004.	4.1	99
2	Accelerating water exchange for Gd(III)chelates by steric compression around the water binding site. <i>Chemical Communications</i> , 2002, , 2630-2631.	4.1	91
3	Supramolecular Luminescent Lanthanide Dimers for Fluoride Sequestering and Sensing. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7259-7263.	13.8	85
4	Monopicolinate Cyclen and Cyclam Derivatives for Stable Copper(II) Complexation. <i>Inorganic Chemistry</i> , 2012, 51, 6916-6927.	4.0	82
5	Pyclen-Based Ln(III) Complexes as Highly Luminescent Bioprobes for <i>In Vitro</i> and <i>In Vivo</i> One- and Two-Photon Bioimaging Applications. <i>Journal of the American Chemical Society</i> , 2020, 142, 10184-10197.	13.7	68
6	Lanthanide(III) Complexes with Ligands Derived from a Cyclen Framework Containing Pyridinecarboxylate Pendants. The Effect of Steric Hindrance on the Hydration Number. <i>Inorganic Chemistry</i> , 2012, 51, 2509-2521.	4.0	63
7	Near infrared two photon imaging using a bright cationic Yb(^{III}) bioprobe spontaneously internalized into live cells. <i>Chemical Communications</i> , 2017, 53, 6005-6008.	4.1	62
8	Stable Mn ²⁺ , Cu ²⁺ and Ln ³⁺ complexes with cyclen-based ligands functionalized with picolinate pendant arms. <i>Dalton Transactions</i> , 2015, 44, 5017-5031.	3.3	55
9	Lanthanide(III) Complexes with a Reinforced Cyclam Ligand Show Unprecedented Kinetic Inertness. <i>Journal of the American Chemical Society</i> , 2014, 136, 17954-17957.	13.7	53
10	Monopicolinate-dipicolyl Derivative of Triazacyclononane for Stable Complexation of Cu ²⁺ and ⁶⁴ Cu ²⁺ . <i>Inorganic Chemistry</i> , 2013, 52, 5246-5259.	4.0	52
11	Monopicolinate Cross-Bridged Cyclam Combining Very Fast Complexation with Very High Stability and Inertness of Its Copper(II) Complex. <i>Inorganic Chemistry</i> , 2014, 53, 5269-5279.	4.0	51
12	Hyperfine Coupling Constants on Inner-Sphere Water Molecules of a Triazacyclononane-based Mn(II) Complex and Related Systems Relevant as MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2013, 52, 11173-11184.	4.0	47
13	Investigating the Complexation of the Pb ²⁺ /Bi ³⁺ Pair with Dipicolinate Cyclen Ligands. <i>Inorganic Chemistry</i> , 2015, 54, 7045-7057.	4.0	45
14	Cationic Two-Photon Lanthanide Bioprobes Able to Accumulate in Live Cells. <i>Inorganic Chemistry</i> , 2016, 55, 7020-7025.	4.0	44
15	Solution Structure of Ln(III) Complexes with Macrocyclic Ligands Through Theoretical Evaluation of ¹ H NMR Contact Shifts. <i>Inorganic Chemistry</i> , 2012, 51, 13419-13429.	4.0	41
16	Cyclen-based bismacrocycles for biological anion recognition. A potentiometric and NMR study of AMP, ADP and ATP nucleotide complexation. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 1743.	2.8	40
17	Cyclen based bis-macrocyclic ligands as phosphates receptors. A potentiometric and NMR study. <i>Dalton Transactions</i> , 2005, , 3016.	3.3	36
18	Radiolabeling of HTE1PA: A new monopicolinate cyclam derivative for Cu-64 phenotypic imaging. In vitro and in vivo stability studies in mice. <i>Nuclear Medicine and Biology</i> , 2014, 41, e49-e57.	0.6	36

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19	Monopropionate analogues of DOTA4â€” and DTPA5â€”: kinetics of formation and dissociation of their lanthanide(III) complexes. Dalton Transactions, 2007, , 3572.	3.3	34
20	A â€œMultiâ€Heavyâ€Atomâ€Approach toward Biphotonic Photosensitizers with Improved Singletâ€Oxygen Generation Properties. Chemistry - A European Journal, 2019, 25, 9026-9034.	3.3	34
21	Complexation of Mn(II) by Rigid PycLen Diacetates: Equilibrium, Kinetic, Relaxometric, Density Functional Theory, and Superoxide Dismutase Activity Studies. Inorganic Chemistry, 2021, 60, 1133-1148.	4.0	34
22	Expanding the Family of PycLen-Based Ligands Bearing Pendant Picolinate Arms for Lanthanide Complexation. Inorganic Chemistry, 2018, 57, 6932-6945.	4.0	33
23	New synthesis of phenyl-isothiocyanate C-functionalised cyclams. Bioconjugation and ⁶⁴ Cu phenotypic PET imaging studies of multiple myeloma with the te2a derivative. Organic and Biomolecular Chemistry, 2015, 13, 11302-11314.	2.8	32
24	Full Control of the Regiospecific <i>N</i>-Functionalization of <i>C</i>-Functionalized Cyclam Bisaminal Derivatives and Application to the Synthesis of their TETA, TE2A, and CB-TE2A Analogues. Journal of Organic Chemistry, 2014, 79, 1885-1899.	3.2	31
25	Improving the stability and inertness of Cu(<i>ii</i>) and Cu(<i>i</i>) complexes with methylthiazolyl ligands by tuning the macrocyclic structure. Dalton Transactions, 2016, 45, 7406-7420.	3.3	31
26	Combining a pycLen framework with conjugated antenna for the design of europium and samarium luminescent bioprobes. Chemical Communications, 2018, 54, 6173-6176.	4.1	31
27	Comparison of Immuno-PET of CD138 and PET imaging with ⁶⁴ CuCl ₂ and ¹⁸ F-FDG in a preclinical syngeneic model of multiple myeloma. Oncotarget, 2018, 9, 9061-9072.	1.8	29
28	H ₂ Me-do ₂ pa: an attractive chelator with fast, stable and inert ^{nat} Bi ³⁺ and ²¹³ Bi ³⁺ complexation for potential α -radioimmunotherapy applications. Chemical Communications, 2014, 50, 12371-12374.	4.1	26
29	Complexation of Ln ³⁺ Ions with Cyclam Dipicolinates: A Small Bridge that Makes Huge Differences in Structure, Equilibrium, and Kinetic Properties. Inorganic Chemistry, 2016, 55, 2227-2239.	4.0	26
30	Investigation of the complexation of ^{nat} Zr(<i>iv</i>) and ⁸⁹ Zr(<i>iv</i>) by hydroxypyridinones for the development of chelators for PET imaging applications. Dalton Transactions, 2017, 46, 4749-4758.	3.3	26
31	trans-Methylpyridine cyclen versus cross-bridged trans-methylpyridine cyclen. Synthesis, acidâ€base and metal complexation studies (metal = Co ²⁺ , Cu ²⁺ , and Zn ²⁺). Dalton Transactions, 2011, 40, 4514.	3.3	25
32	Stable and Inert Yttrium(III) Complexes with PycLen-Based Ligands Bearing Pendant Picolinate Arms: Toward New Pharmaceuticals for β -Radiotherapy. Inorganic Chemistry, 2018, 57, 2051-2063.	4.0	25
33	Definition of the Labile Capping Bond Effect in Lanthanide Complexes. Chemistry - A European Journal, 2017, 23, 1110-1117.	3.3	24
34	1,4,7â€Triazacyclononaneâ€Based Bifunctional Picolinate Ligands for Efficient Copper Complexation. European Journal of Inorganic Chemistry, 2017, 2017, 2435-2443.	2.0	23
35	The role of the capping bond effect on pycLen ^{nat} Y ³⁺ / ⁹⁰ Y ³⁺ chelates: full control of the regiospecific N-functionalization makes the difference. Chemical Communications, 2017, 53, 9534-9537.	4.1	23
36	A Coordination Chemistry Approach to Fineâ€Tune the Physicochemical Parameters of Lanthanide Complexes Relevant to Medical Applications. Chemistry - A European Journal, 2018, 24, 3127-3131.	3.3	22

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37	What is the Best Radionuclide for Immuno-PET of Multiple Myeloma? A Comparison Study Between ⁸⁹ Zr- and ⁶⁴ Cu-Labeled Anti-CD138 in a Preclinical Syngeneic Model. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2564.	4.1	22
38	Synthesis of <i>C</i> -functionalized TE1PA and comparison with its analogues. An example of bioconjugation on 9E7.4 mAb for multiple myeloma ⁶⁴ Cu-PET imaging. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 4261-4271.	2.8	21
39	Methylthiazolyl Tacn Ligands for Copper Complexation and Their Bifunctional Chelating Agent Derivatives for Bioconjugation and Copper-64 Radiolabeling: An Example with Bombesin. <i>Inorganic Chemistry</i> , 2019, 58, 2669-2685.	4.0	21
40	Mono- and Dinuclear Cu and ZnII Complexes of Cyclen-Based Bis(macrocycles) Containing Two Aminoalkyl Pendant Arms of Different Lengths. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 2044-2053.	2.0	19
41	Pyclen Tri- <i>n</i> -butylphosphonate Ester as Potential Chelator for Targeted Radiotherapy: From Yttrium(III) Complexation to ⁹⁰ Y Radiolabeling. <i>Inorganic Chemistry</i> , 2016, 55, 8003-8012.	4.0	19
42	Kinetics Are Crucial When Targeting Copper Ions to Fight Alzheimer's Disease: An Illustration with Azamacrocyclic Ligands. <i>Chemistry - A European Journal</i> , 2018, 24, 8447-8452.	3.3	18
43	TE1PA as Innovating Chelator for ⁶⁴ Cu Immuno-TEP Imaging: A Comparative in Vivo Study with DOTA/NOTA by Conjugation on 9E7.4 mAb in a Syngeneic Multiple Myeloma Model. <i>Bioconjugate Chemistry</i> , 2019, 30, 2393-2403.	3.6	18
44	The Relationship between NMR Chemical Shifts of Thermally Polarized and Hyperpolarized ⁸⁹ Y Complexes and Their Solution Structures. <i>Chemistry - A European Journal</i> , 2016, 22, 16657-16667.	3.3	16
45	Straightforward and mild deprotection methods of N-mono- and N,N-functionalised bisaminal cyclens. <i>Tetrahedron</i> , 2015, 71, 3857-3862.	1.9	15
46	Cyclams with Ambidentate Methylthiazolyl Pendants for Stable, Inert, and Selective Cu(II) Coordination. <i>Inorganic Chemistry</i> , 2016, 55, 619-632.	4.0	15
47	Cyclam te1pa for ⁶⁴ Cu PET imaging. Bioconjugation to antibody, radiolabeling and preclinical application in xenografted colorectal cancer. <i>RSC Advances</i> , 2017, 7, 9272-9283.	3.6	15
48	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.	4.0	15
49	Catching anions with coloured assemblies: binding of pH indicators by a giant-size polyammonium macrocycle for anion naked-eye recognition. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8309-8321.	2.8	14
50	Expanding the Scope of Pyclen-Picolinate Lanthanide Chelates to Potential Theranostic Applications. <i>Inorganic Chemistry</i> , 2020, 59, 11736-11748.	4.0	14
51	Proton-sponge behaviour of new pendant armed cross-bridged bis-cyclens: Synthesis, NMR, X-ray, and potentiometric investigations. <i>Comptes Rendus Chimie</i> , 2007, 10, 832-838.	0.5	13
52	Steric Effects on the Binding of Phosphate and Polyphosphate Anions by Zinc(II) and Copper(II) Dinuclear Complexes of <i>m</i> -Xylyl-bis-cyclen. <i>Inorganic Chemistry</i> , 2018, 57, 6466-6478.	4.0	13
53	Cationic Biphotonic Lanthanide Luminescent Bioprobes Based on Functionalized Cross-Bridged Cyclam Macrocycles. <i>ChemPhysChem</i> , 2020, 21, 1036-1043.	2.1	13
54	Cyclam-Based Chelators Bearing Phosphonated Pyridine Pendants for ⁶⁴ Cu-PET Imaging: Synthesis, Physicochemical Studies, Radiolabeling, and Bioimaging. <i>Inorganic Chemistry</i> , 2021, 60, 2634-2648.	4.0	13

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55	Enabling Indium Channels for Mass Cytometry by Using Reinforced Cyclam-Based Chelating Polylysine. <i>Bioconjugate Chemistry</i> , 2020, 31, 2103-2115.	3.6	12
56	Pyclen-Based Ligands Bearing Pendant Picolinate Arms for Gadolinium Complexation. <i>Inorganic Chemistry</i> , 2021, 60, 2390-2405.	4.0	12
57	exo-Diastereoisomer of 10-aryl-1,4,7-triazabicyclo[5.2.1]decane as intermediary in specific derivatisation of triazacyclononane. <i>Tetrahedron</i> , 2012, 68, 5637-5643.	1.9	11
58	A [two-step/one week] synthesis of C-functionalized homocyclens and cyclams. Application to the preparation of conjugable BCAs without chelating properties alteration. <i>RSC Advances</i> , 2015, 5, 85898-85910.	3.6	11
59	Reactivities of cyclam derivatives with metal-amyloid- β . <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4222-4238.	6.0	10
60	Synthesis, Conformational Analysis, and Complexation Study of an Iminosugar-Aza-Crown, a Sweet Chiral Cyclam Analog. <i>Organic Letters</i> , 2020, 22, 2344-2349.	4.6	10
61	A squaraine-based dipicolylamine derivative acting as a turn-on mercury(II) fluorescent probe in water. <i>New Journal of Chemistry</i> , 2020, 44, 6589-6600.	2.8	10
62	^{68}Ga -Labelled Carbon Nanoparticles for Ventilation PET/CT Imaging: Physical Properties Study and Comparison with Technegas $^{\text{A}}$. <i>Molecular Imaging and Biology</i> , 2021, 23, 62-69.	2.6	10
63	Complexation of $\text{Cu}(\text{II})$ -Functionalized Cyclams with Copper(II) and Zinc(II): Similarities and Changes When Compared to Parent Cyclam Analogues. <i>Inorganic Chemistry</i> , 2021, 60, 10857-10872.	4.0	10
64	Tuning the copper(II) coordination properties of cyclam by subtle chemical modifications. <i>Dalton Transactions</i> , 2017, 46, 11479-11490.	3.3	9
65	Phosphate and polyphosphate anion recognition by a dinuclear copper(II) complex of an unsymmetrical squaramide. <i>Dalton Transactions</i> , 2019, 48, 10104-10115.	3.3	9
66	Spectroscopic Properties of a Family of Mono- to Trinuclear Lanthanide Complexes. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2122-2129.	2.0	8
67	Highly Stable and Inert Complexation of Indium(III) by Reinforced Cyclam Dipicolinate and a Bifunctional Derivative for Bead Encoding in Mass Cytometry. <i>Chemistry - A European Journal</i> , 2019, 25, 15387-15400.	3.3	8
68	Formation of Heteropolynuclear Lanthanide Complexes Using Macrocyclic Phosphonated Cyclam-Based Ligands. <i>Inorganic Chemistry</i> , 2020, 59, 10311-10327.	4.0	8
69	Design of polyazamacrocyclic Gd^{3+} theranostic agents combining magnetic resonance imaging and two-photon photodynamic therapy. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2213-2224.	6.0	8
70	Radiopharmaceutical Labelling for Lung Ventilation/Perfusion PET/CT Imaging: A Review of Production and Optimization Processes for Clinical Use. <i>Pharmaceuticals</i> , 2022, 15, 518.	3.8	8
71	Design and Synthesis of Hybrid PEGylated Metal Monopicolinate Cyclam Ligands for Biomedical Applications. <i>ACS Omega</i> , 2019, 4, 2500-2509.	3.5	7
72	endo- versus exo-Cyclic coordination in copper complexes with methylthiazolylcarboxylate tacn derivatives. <i>Dalton Transactions</i> , 2019, 48, 8740-8755.	3.3	7

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73	Efficient luminescence control in dithienylethene functionalized cyclen macrocyclic lanthanide complexes. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2979-2989.	6.0	7
74	Synthesis of an unsymmetrical N-functionalized triazacyclononane ligand and its Cu(II) complex. <i>Inorganica Chimica Acta</i> , 2014, 417, 201-207.	2.4	6
75	Picolinate-appended tacn complexes for bimodal imaging: Radiolabeling, relaxivity, photophysical and electrochemical studies. <i>Journal of Inorganic Biochemistry</i> , 2020, 205, 110978.	3.5	5
76	Copper(II) and zinc(II) complexation with N-ethylene hydroxycyclams and consequences on the macrocyclic backbone configuration. <i>Dalton Transactions</i> , 0, , .	3.3	5
77	In Vivo Albumin Binding of a C-Functionalized Cyclam Platform for ⁶⁴ Cu PET/CT Imaging in Breast Cancer Model. <i>ChemMedChem</i> , 2021, 16, 809-821.	3.2	4
78	Fully Automated ⁶⁸ Ga-Labeling and Purification of Macroaggregated Albumin Particles for Lung Perfusion PET Imaging. <i>Frontiers in Nuclear Medicine</i> , 2021, 1, .	1.2	4
79	Palladium(II) coordination with polyazacycloalkanes. <i>Coordination Chemistry Reviews</i> , 2022, 455, 214343.	18.8	3
80	Electrocatalytic reduction of CO ₂ in water by a C-functionalized Ni-cyclam complex grafted onto carbon. <i>Chemical Communications</i> , 0, , .	4.1	3
81	Reply to the "Comment on "Investigation of Zr(IV) and ⁸⁹ Zr(IV) complexation with hydroxamates: progress towards designing a better chelator than desferrioxamine B for immuno-PET imaging" by A. Bianchi and M. Savastano, <i>Chem. Commun.</i> , 2020, 56, D0CC01189D. <i>Chemical Communications</i> , 2020, 56, 12667-12668.	4.1	2
82	A different approach: highly encapsulating macrocycles being used as organic tectons in the building of CPs. <i>CrystEngComm</i> , 2021, 23, 453-464.	2.6	2
83	Relevance of Palladium to Radiopharmaceutical Development Considering Enhanced Coordination Properties of TE1PA. <i>Chemistry - A European Journal</i> , 2022, , .	3.3	2
84	Synthesis of Orthogonal N-Protected C-Functional Side-Bridged Cyclams to Give Access to Unsymmetrical Constrained BCAs. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 5955-5962.	2.4	1
85	Tuning the lipophilic nature of pycen-based 90Y ³⁺ radiopharmaceuticals for ¹²⁵ I-radiotherapy. <i>Metallomics</i> , 2021, 13, .	2.4	1
86	Bioconjugated chelates based on (methylpyridinyl)tacn: synthesis, ⁶⁴ Cu labeling and in vitro evaluation for prostate cancer targeting. <i>Metallomics</i> , 2022, 14, .	2.4	1
87	Importance of ligand design in lanthanide azamacrocyclic complexes relevant to biomedical applications. <i>Fundamental Theories of Physics</i> , 2022, , 129-220.	0.3	1
88	New Triazacycloalkane Derivatives as Cytotoxic Agents for CLL Treatment: From Proof of Concept to the Targeting Biomolecule. <i>Bioconjugate Chemistry</i> , 0, , .	3.6	0
89	Front Cover: Relevance of Palladium to Radiopharmaceutical Development Considering Enhanced Coordination Properties of TE1PA (<i>Chem. Eur. J.</i> 41(2022)). <i>Chemistry - A European Journal</i> , 2022, 28, , .	3.3	0
90	Relevance of Palladium to Radiopharmaceutical Development Considering Enhanced Coordination Properties of TE1PA. <i>Chemistry - A European Journal</i> , 0, , .	3.3	0