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 g-index
95 all docs	95 docs citations	95 times ranked	1838 citing authors

#	Article	IF	Citations
1	Palladium(II) coordination with polyazacycloalkanes. Coordination Chemistry Reviews, 2022, 455, 214343.	18.8	3
2	Radiopharmaceutical Labelling for Lung Ventilation/Perfusion PET/CT Imaging: A Review of Production and Optimization Processes for Clinical Use. Pharmaceuticals, 2022, 15, 518.	3.8	8
3	Relevance of Palladium to Radiopharmaceutical Development Considering Enhanced Coordination Properties of TE1PA. Chemistry - A European Journal, 2022, , .	3.3	2
4	Bioconjugated chelates based on (methylpyridinyl)tacn: synthesis, 64Cu labeling and in vitro evaluation for prostate cancer targeting. Metallomics, 2022, 14, .	2.4	1
5	Front Cover: Relevance of Palladium to Radiopharmaceutical Development Considering Enhanced Coordination Properties of TE1PA (Chem. Eur. J. 41/2022). Chemistry - A European Journal, 2022, 28, .	3.3	0
6	Importance of ligand design in lanthanide azamacrocyclic complexes relevant to biomedical applications. Fundamental Theories of Physics, 2022, , 129-220.	0.3	1
7	In Vivo Albuminâ€Binding of a Câ€Functionalized Cyclam Platform for ⁶⁴Cuâ€PET/CT Imaging in Breast Cancer Model. ChemMedChem, 2021, 16, 809-821.	3.2	4
8	A different approach: highly encapsulating macrocycles being used as organic tectons in the building of CPs. CrystEngComm, 2021, 23, 453-464.	2.6	2
9	68Ga-Labelled Carbon Nanoparticles for Ventilation PET/CT Imaging: Physical Properties Study and Comparison with TechnegasÂ®. Molecular Imaging and Biology, 2021, 23, 62-69.	2.6	10
10	Design of polyazamacrocyclic Gd³⁺ theranostic agents combining magnetic resonance imaging and two-photon photodynamic therapy. Inorganic Chemistry Frontiers, 2021, 8, 2213-2224.	6.0	8
11	Pyclen-Based Ligands Bearing Pendant Picolinate Arms for Gadolinium Complexation. Inorganic Chemistry, 2021, 60, 2390-2405.	4.0	12
12	Cyclam-Based Chelators Bearing Phosphonated Pyridine Pendants for ⁶⁴Cu-PET Imaging: Synthesis, Physicochemical Studies, Radiolabeling, and Bioimaging. Inorganic Chemistry, 2021, 60, 2634-2648.	4.0	13
13	Complexation of C-Functionalized Cyclams with Copper(II) and Zinc(II): Similarities and Changes When Compared to Parent Cyclam Analogues. Inorganic Chemistry, 2021, 60, 10857-10872.	4.0	10
14	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
15	Fully Automated 68Ga-Labeling and Purification of Macroaggregated Albumin Particles for Lung Perfusion PET Imaging. Frontiers in Nuclear Medicine, 2021, 1, .	1.2	4
16	Tuning the lipophilic nature of pyclen-based 90Y3+ radiopharmaceuticals for Î²-radiotherapy. Metallomics, 2021, 13, .	2.4	1
17	Picolinate-appended tacn complexes for bimodal imaging: Radiolabeling, relaxivity, photophysical and electrochemical studies. Journal of Inorganic Biochemistry, 2020, 205, 110978.	3.5	5
18	Expanding the Scope of Pyclen-Picolinate Lanthanide Chelates to Potential Theranostic Applications. Inorganic Chemistry, 2020, 59, 11736-11748.	4.0	14

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19	Reply to the â€˜Comment on â€œInvestigation of Zr(iv) and 89Zr(iv) complexation with hydroxamates: progress towards designing a better chelator than desferrioxamine B for immuno-PET imagingâ€â€™ by A. Bianchi and M. Savastano, Chem. Commun., 2020, 56, D0CC01189D. Chemical Communications, 2020, 56, 12667-12668.	4.1	2
20	Reactivities of cyclam derivatives with metalâ€“amyloid-Î². Inorganic Chemistry Frontiers, 2020, 7, 4222-4238.	6.0	10
21	Pyclen-Based Ln(III) Complexes as Highly Luminescent Bioprobes for In Vitro and In Vivo One- and Two-Photon Bioimaging Applications. Journal of the American Chemical Society, 2020, 142, 10184-10197.	13.7	68
22	Enabling Indium Channels for Mass Cytometry by Using Reinforced Cyclam-Based Chelating Polylysine. Bioconjugate Chemistry, 2020, 31, 2103-2115.	3.6	12
23	Efficient luminescence control in dithienylethene functionalized cyclen macrocyclic lanthanide complexes. Inorganic Chemistry Frontiers, 2020, 7, 2979-2989.	6.0	7
24	Synthesis, Conformational Analysis, and Complexation Study of an Iminosugar-Aza-Crown, a Sweet Chiral Cyclam Analog. Organic Letters, 2020, 22, 2344-2349.	4.6	10
25	Cationic Biphotonic Lanthanide Luminescent Bioprobes Based on Functionalized Crossâ€Bridged Cyclam Macrocycles. ChemPhysChem, 2020, 21, 1036-1043.	2.1	13
26	Formation of Heteropolynuclear Lanthanide Complexes Using Macrocyclic Phosphonated Cyclam-Based Ligands. Inorganic Chemistry, 2020, 59, 10311-10327.	4.0	8
27	Unexpected Trends in the Stability and Dissociation Kinetics of Lanthanide(III) Complexes with Cyclen-Based Ligands across the Lanthanide Series. Inorganic Chemistry, 2020, 59, 8184-8195.	4.0	15
28	A squaraine-based dipicolylamine derivative acting as a turn-on mercury(<scp>ii</scp>) fluorescent probe in water. New Journal of Chemistry, 2020, 44, 6589-6600.	2.8	10
29	TE1PA as Innovating Chelator for 64Cu Immuno-TEP Imaging: A Comparative in Vivo Study with DOTA/NOTA by Conjugation on 9E7.4 mAb in a Syngeneic Multiple Myeloma Model. Bioconjugate Chemistry, 2019, 30, 2393-2403.	3.6	18
30	Synthesis of Orthogonal Nâ€Protected Câ€Functional Sideâ€Bridged Cyclams to Give Access to Unsymmetrical Constrained BCAs. European Journal of Organic Chemistry, 2019, 2019, 5955-5962.	2.4	1
31	Highly Stable and Inert Complexation of Indium(III) by Reinforced Cyclam Dipicolinate and a Bifunctional Derivative for Bead Encoding in Mass Cytometry. Chemistry - A European Journal, 2019, 25, 15387-15400.	3.3	8
32	Methylthiazolyl Tacn Ligands for Copper Complexation and Their Bifunctional Chelating Agent Derivatives for Bioconjugation and Copper-64 Radiolabeling: An Example with Bombesin. Inorganic Chemistry, 2019, 58, 2669-2685.	4.0	21
33	Design and Synthesis of Hybrid PEGylated Metal Monopicolinate Cyclam Ligands for Biomedical Applications. ACS Omega, 2019, 4, 2500-2509.	3.5	7
34	What is the Best Radionuclide for Immuno-PET of Multiple Myeloma? A Comparison Study Between 89Zr- and 64Cu-Labeled Anti-CD138 in a Preclinical Syngeneic Model. International Journal of Molecular Sciences, 2019, 20, 2564.	4.1	22
35	Phosphate and polyphosphate anion recognition by a dinuclear copper(<scp>ii</scp>) complex of an unsymmetrical squaramide. Dalton Transactions, 2019, 48, 10104-10115.	3.3	9
36	endo- versus exo-Cyclic coordination in copper complexes with methylthiazolylcarboxylate tacn derivatives. Dalton Transactions, 2019, 48, 8740-8755.	3.3	7

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37	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
38	Kinetics Are Crucial When Targeting Copper Ions to Fight Alzheimer's Disease: An Illustration with Azamacrocyclic Ligands. Chemistry - A European Journal, 2018, 24, 8447-8452.	3.3	18
39	Synthesis of C-functionalized TE1PA and comparison with its analogues. An example of bioconjugation on 9E7.4 mAb for multiple myeloma ⁶⁴Cu-PET imaging. Organic and Biomolecular Chemistry, 2018, 16, 4261-4271.	2.8	21
40	Stable and Inert Yttrium(III) Complexes with Pyclen-Based Ligands Bearing Pendant Picolinate Arms: Toward New Pharmaceuticals for Î²-Radiotherapy. Inorganic Chemistry, 2018, 57, 2051-2063.	4.0	25
41	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
42	Comparison of Immuno-PET of CD138 and PET imaging with 64CuCl2 and 18F-FDG in a preclinical syngeneic model of multiple myeloma. Oncotarget, 2018, 9, 9061-9072.	1.8	29
43	Expanding the Family of Pyclen-Based Ligands Bearing Pendant Picolinate Arms for Lanthanide Complexation. Inorganic Chemistry, 2018, 57, 6932-6945.	4.0	33
44	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
45	Steric Effects on the Binding of Phosphate and Polyphosphate Anions by Zinc(II) and Copper(II) Dinuclear Complexes of m-Xylyl-bis-cyclen. Inorganic Chemistry, 2018, 57, 6466-6478.	4.0	13
46	Cyclam te1pa for⁶⁴Cu PET imaging. Bioconjugation to antibody, radiolabeling and preclinical application in xenografted colorectal cancer. RSC Advances, 2017, 7, 9272-9283.	3.6	15
47	Investigation of the complexation of ^{nat}Zr(<scp>iv</scp>) and ⁸⁹Zr(<scp>iv</scp>) by hydroxypyridinones for the development of chelators for PET imaging applications. Dalton Transactions, 2017, 46, 4749-4758.	3.3	26
48	Spectroscopic Properties of a Family of Mono- to Trinuclear Lanthanide Complexes. European Journal of Inorganic Chemistry, 2017, 2017, 2122-2129.	2.0	8
49	1,4,7â€Triazacyclononaneâ€Based Bifunctional Picolinate Ligands for Efficient Copper Complexation. European Journal of Inorganic Chemistry, 2017, 2017, 2435-2443.	2.0	23
50	Near infrared two photon imaging using a bright cationic Yb(<scp>iii</scp>) bioprobe spontaneously internalized into live cells. Chemical Communications, 2017, 53, 6005-6008.	4.1	62
51	The role of the capping bond effect on pyclen ^{nat}Y³⁺/⁹⁰Y³⁺ chelates: full control of the regiospecific N-functionalization makes the difference. Chemical Communications, 2017, 53, 9534-9537.	4.1	23
52	Tuning the copper(<scp>ii</scp>) coordination properties of cyclam by subtle chemical modifications. Dalton Transactions, 2017, 46, 11479-11490.	3.3	9
53	Definition of the Labile Capping Bond Effect in Lanthanide Complexes. Chemistry - A European Journal, 2017, 23, 1110-1117.	3.3	24
54	Cationic Two-Photon Lanthanide Bioprobes Able to Accumulate in Live Cells. Inorganic Chemistry, 2016, 55, 7020-7025.	4.0	44

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55	The Relationship between NMR Chemical Shifts of Thermally Polarized and Hyperpolarized ⁸⁹Y Complexes and Their Solution Structures. Chemistry - A European Journal, 2016, 22, 16657-16667.	3.3	16
56	Pyclen Tri-n-butylphosphonate Ester as Potential Chelator for Targeted Radiotherapy: From Yttrium(III) Complexation to ⁹⁰Y Radiolabeling. Inorganic Chemistry, 2016, 55, 8003-8012.	4.0	19
57	Catching anions with coloured assemblies: binding of pH indicators by a giant-size polyammonium macrocycle for anion naked-eye recognition. Organic and Biomolecular Chemistry, 2016, 14, 8309-8321.	2.8	14
58	Improving the stability and inertness of Cu(<scp>ii</scp>) and Cu(<scp>i</scp>) complexes with methylthiazolyl ligands by tuning the macrocyclic structure. Dalton Transactions, 2016, 45, 7406-7420.	3.3	31
59	Complexation of Ln³⁺ 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
60	Cyclams with Ambidentate Methylthiazolyl Pendants for Stable, Inert, and Selective Cu(II) Coordination. Inorganic Chemistry, 2016, 55, 619-632.	4.0	15
61	Investigating the Complexation of the Pb²⁺/Bi³⁺ Pair with Dipicolinate Cyclen Ligands. Inorganic Chemistry, 2015, 54, 7045-7057.	4.0	45
62	Straightforward and mild deprotection methods of N-mono- and N,N-functionalised bisaminal cyclens. Tetrahedron, 2015, 71, 3857-3862.	1.9	15
63	Stable Mn²⁺, Cu²⁺ and Ln³⁺ complexes with cyclen-based ligands functionalized with picolinate pendant arms. Dalton Transactions, 2015, 44, 5017-5031.	3.3	55
64	New synthesis of phenyl-isothiocyanate C-functionalised cyclams. Bioconjugation and⁶⁴Cu phenotypic PET imaging studies of multiple myeloma with the te2a derivative. Organic and Biomolecular Chemistry, 2015, 13, 11302-11314.	2.8	32
65	A [two-step/one week] synthesis of C-functionalized homocyclens and cyclams. Application to the preparation of conjugable BCAs without chelating properties alteration. RSC Advances, 2015, 5, 85898-85910.	3.6	11
66	Lanthanide(III) Complexes with a Reinforced Cyclam Ligand Show Unprecedented Kinetic Inertness. Journal of the American Chemical Society, 2014, 136, 17954-17957.	13.7	53
67	Radiolabeling of HTE1PA: A new monopicolinate cyclam derivative for Cu-64 phenotypic imaging. In vitro and in vivo stability studies in mice. Nuclear Medicine and Biology, 2014, 41, e49-e57.	0.6	36
68	Synthesis of an unsymmetrical N-functionalized triazacyclononane ligand and its Cu(II) complex. Inorganica Chimica Acta, 2014, 417, 201-207.	2.4	6
69	H2Me-do2pa: an attractive chelator with fast, stable and inert ^{nat}Bi³⁺ and ²¹³Bi³⁺ complexation for potential Î±-radioimmunotherapy applications. Chemical Communications, 2014, 50, 12371-12374.	4.1	26
70	Monopicolinate Cross-Bridged Cyclam Combining Very Fast Complexation with Very High Stability and Inertness of Its Copper(II) Complex. Inorganic Chemistry, 2014, 53, 5269-5279.	4.0	51
71	Supramolecular Luminescent Lanthanide Dimers for Fluoride Sequestering and Sensing. Angewandte Chemie - International Edition, 2014, 53, 7259-7263.	13.8	85
72	Full Control of the Regiospecific N-Functionalization of C-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

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73	Hyperfine Coupling Constants on Inner-Sphere Water Molecules of a Triazacyclononane-based Mn(II) Complex and Related Systems Relevant as MRI Contrast Agents. Inorganic Chemistry, 2013, 52, 11173-11184.	4.0	47
74	Investigation of Zr(<scp>iv</scp>) and ⁸⁹Zr(<scp>iv</scp>) complexation with hydroxamates: progress towards designing a better chelator than desferrioxamine B for immuno-PET imaging. Chemical Communications, 2013, 49, 1002-1004.	4.1	99
75	Monopicolinate-dipicolyl Derivative of Triazacyclononane for Stable Complexation of Cu²⁺ and ⁶⁴Cu²⁺. Inorganic Chemistry, 2013, 52, 5246-5259.	4.0	52
76	Lanthanide(III) Complexes with Ligands Derived from a Cyclen Framework Containing Pyridinecarboxylate Pendants. The Effect of Steric Hindrance on the Hydration Number. Inorganic Chemistry, 2012, 51, 2509-2521.	4.0	63
77	exo-Diastereoisomer of 10-aryl-1,4,7-triazabicyclo[5.2.1]decane as intermediary in specific derivatisation of triazacyclononane. Tetrahedron, 2012, 68, 5637-5643.	1.9	11
78	Solution Structure of Ln(III) Complexes with Macrocyclic Ligands Through Theoretical Evaluation of ¹H NMR Contact Shifts. Inorganic Chemistry, 2012, 51, 13419-13429.	4.0	41
79	Monopicolinate Cyclen and Cyclam Derivatives for Stable Copper(II) Complexation. Inorganic Chemistry, 2012, 51, 6916-6927.	4.0	82
80	trans-Methylpyridine cyclen versus cross-bridged trans-methylpyridine cyclen. Synthesis, acidâ€“base and metal complexation studies (metal = Co2+, Cu2+, and Zn2+). Dalton Transactions, 2011, 40, 4514.	3.3	25
81	Cyclen-based bismacrocycles for biological anion recognition. A potentiometric and NMR study of AMP, ADP and ATP nucleotide complexation. Organic and Biomolecular Chemistry, 2008, 6, 1743.	2.8	40
82	Monopropionate analogues of DOTA4â€“ and DTPA5â€“: kinetics of formation and dissociation of their lanthanide(iii) complexes. Dalton Transactions, 2007, , 3572.	3.3	34
83	Proton-sponge behaviour of new pendant armed cross-bridged bis-cyclens: Synthesis, NMR, X-ray, and potentiometric investigations. Comptes Rendus Chimie, 2007, 10, 832-838.	0.5	13
84	Mono- and Dinuclear CuII and ZnII Complexes of Cyclen-Based Bis(macrocycles) Containing Two Aminoalkyl Pendant Arms of Different Lengths. European Journal of Inorganic Chemistry, 2005, 2005, 2044-2053.	2.0	19
85	Cyclen based bis-macrocyclic ligands as phosphates receptors. A potentiometric and NMR study. Dalton Transactions, 2005, , 3016.	3.3	36
86	Accelerating water exchange for GdIIIchelates by steric compression around the water binding site. Chemical Communications, 2002, , 2630-2631.	4.1	91
87	Electrocatalytic reduction of CO₂ in water by a C-functionalized Ni-cyclam complex grafted onto carbon. Chemical Communications, 0, , .	4.1	3
88	Copper(<scp>ii</scp>) and zinc(<scp>ii</scp>) complexation with N-ethylene hydroxycyclams and consequences on the macrocyclic backbone configuration. Dalton Transactions, 0, , .	3.3	5
89	New Triazacycloalkane Derivatives as Cytotoxic Agents for CLL Treatment: From Proof of Concept to the Targeting Biomolecule. Bioconjugate Chemistry, 0, , .	3.6	0
90	Relevance of Palladium to Radiopharmaceutical Development Considering Enhanced Coordination Properties of TE1PA. Chemistry - A European Journal, 0, , .	3.3	0