

# New directions in the coordination chemistry of $^{99m}\text{Tc}$ structures and a strategy for new chelate design

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The Facettes of $[^{99}\text{TcCl}_3(\text{CO})_3]^{2-}$ Chemistry and Its Application to Life Science. <i>Journal of Nuclear and Radiochemical Sciences</i> , 2005, 6, 173-176.	0.7	9
2	Complexes of the $\{\text{ReVOX}_2\}^+$ (X=Cl, Br) core with single amino acid chelate derivatives. <i>Inorganica Chimica Acta</i> , 2005, 358, 2413-2421.	1.2	11
3	Bifunctional chelates with mixed aromatic and aliphatic amine donors for labeling of biomolecules with the $\{\text{Tc}(\text{CO})_3\}^+$ and $\{\text{Re}(\text{CO})_3\}^+$ cores. <i>Inorganica Chimica Acta</i> , 2005, 358, 3691-3700.	1.2	15
4	Design and synthesis of site directed maleimide bifunctional chelators for technetium and rhenium. <i>Dalton Transactions</i> , 2005, , 3886.	1.6	40
5	New Directions in the Coordination Chemistry of $^{99\text{m}}\text{Tc}$ : A Reflection on Technetium Core Structures and a Strategy for New Chelate Design. <i>ChemInform</i> , 2005, 36, no.	0.1	0
7	Thiol- and Thioether-Based Bifunctional Chelates for the $\{\text{M}(\text{CO})_3\}^+$ Core (M = Tc, Re). <i>Inorganic Chemistry</i> , 2005, 44, 6763-6770.	1.9	57
8	Comparative Studies of Substitution Reactions of Rhenium(I) Dicarbonyl $\pi$ -Nitrosyl and Tricarbonyl Complexes in Aqueous Media. <i>Inorganic Chemistry</i> , 2005, 44, 6082-6091.	1.9	34
9	Picolylamine-methylphosphonic acid esters as tridentate ligands for the labeling of alcohols with the fac- $[\text{M}(\text{CO})_3]^+$ core (M= $^{99\text{m}}\text{Tc}$ , Re): synthesis and biodistribution of model compounds and of a $^{99\text{m}}\text{Tc}$ -labeled cobinamide. <i>Nuclear Medicine and Biology</i> , 2005, 32, 473-484.	0.3	30
10	Aqueous Fluoride and the Preparation of $[\text{M}(\text{CO})_3(\text{OH}_2)_3]^+$ and $^{99\text{m}}\text{Tc}$ -Carborane Complexes. <i>Inorganic Chemistry</i> , 2005, 44, 9585-9591.	1.9	22
11	Copper Complexes of Thiosemicarbazone $\pi$ -Pyridylhydrazine (THYNIC) Hybrid Ligands: A New Versatile Potential Bifunctional Chelator for Copper Radiopharmaceuticals. <i>Inorganic Chemistry</i> , 2006, 45, 496-498.	1.9	63
12	Amino Acids Labeled with $[\text{M}(\text{CO})_3]^+$ and Recognized by the $\eta$ -type Amino Acid Transporter LAT1. <i>Journal of the American Chemical Society</i> , 2006, 128, 15996-15997.	6.6	63
13	Recent advances on technetium complexes: coordination chemistry and medical applications. <i>Journal of Coordination Chemistry</i> , 2006, 59, 1-63.	0.8	37
14	Radiochemistry and radiopharmaceuticals. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2006, 102, 542.	0.8	3
15	Click to Chelate: Synthesis and Installation of Metal Chelates into Biomolecules in a Single Step. <i>Journal of the American Chemical Society</i> , 2006, 128, 15096-15097.	6.6	286
16	Extension of the Single Amino Acid Chelate Concept (SAAC) to Bifunctional Biotin Analogues for Complexation of the $\text{M}(\text{CO})_3^+$ Core (M = Tc and Re): Syntheses, Characterization, Biotinidase Stability, and Avidin Binding. <i>Bioconjugate Chemistry</i> , 2006, 17, 579-589.	1.8	45
17	Water-Exchange Study Revealed Unexpected Substitution Behavior of $[(\text{CO})_2(\text{NO})\text{Re}(\text{H}_2\text{O})_3]^{2+}$ in Aqueous Media. <i>Inorganic Chemistry</i> , 2006, 45, 4199-4204.	1.9	7
18	Evaluation of $^{99\text{m}}\text{Tc}$ -MAG3-annexin V: influence of the chelate on in vitro and in vivo properties in mice. <i>Nuclear Medicine and Biology</i> , 2006, 33, 135-144.	0.3	47
19	Evaluation of novel cationic $^{99\text{m}}\text{Tc}(\text{I})$ tricarbonyl complexes as potential radiotracers for myocardial perfusion imaging. <i>Nuclear Medicine and Biology</i> , 2006, 33, 1045-1053.	0.3	37

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20	Textbook of in vivo Imaging in Vertebrates. , 2006, , .		4
21	Structural overview of technetium compounds (2000–2004). Coordination Chemistry Reviews, 2006, 250, 561-573.	9.5	34
22	The preparation of substitution-inert <sup>99</sup> Tc metal-fragments: Promising candidates for the design of new <sup>99m</sup> Tc radiopharmaceuticals. Coordination Chemistry Reviews, 2006, 250, 2034-2045.	9.5	47
23	A new bifunctional amino acid chelator targeting the glucose transporter. Inorganica Chimica Acta, 2006, 359, 1603-1612.	1.2	28
24	Synthesis, characterization and X-ray crystal structure of [Re(L4)(CO) <sub>3</sub> ]Br·2CH <sub>3</sub> OH (L4=N,N-bis[(2-diphenylphosphino)ethyl]methoxyethylamine): A model compound for novel cationic <sup>99m</sup> Tc(I)-tricarbonyl radiotracers useful for heart imaging. Inorganica Chimica Acta, 2006, 359, 2479-2488.	1.2	25
25	Complexes with the fac-[M(CO) <sub>3</sub> ] <sup>+</sup> (M= <sup>99m</sup> Tc, Re) moiety and long alkyl chain ligands as Lipiodol surrogates. Inorganica Chimica Acta, 2006, 359, 4087-4094.	1.2	24
26	Developing the {M(CO) <sub>3</sub> } <sup>+</sup> Core for Fluorescence Applications: Rhenium Tricarbonyl Core Complexes with Benzimidazole, Quinoline, and Tryptophan Derivatives. Inorganic Chemistry, 2006, 45, 3057-3066.	1.9	79
27	In Vivo Radiotracer Imaging. , 0, , 103-147.		0
28	Labeling Biomolecules with Radiorhenium - A Review of the Bifunctional Chelators. Anti-Cancer Agents in Medicinal Chemistry, 2007, 7, 367-377.	0.9	47
29	Ether and crown ether-containing cationic <sup>99m</sup> Tc complexes useful as radiopharmaceuticals for heart imaging. Dalton Transactions, 2007, , 1183.	1.6	50
30	A pyrazolylamine phosphonate monoester chelator for the fac-[M(CO) <sub>3</sub> ] <sup>+</sup> core (M = Re, <sup>99m</sup> Tc): synthesis, coordination properties and biological assessment. Journal of Labelled Compounds and Radiopharmaceuticals, 2007, 50, 1176-1184.	0.5	8
31	Solid-phase synthesis of metal-complex containing peptides. Tetrahedron, 2007, 63, 4918-4928.	1.0	17
32	Synthesis and validation of fatty acid analogs radiolabeled by nonisotopic substitution. Journal of Nuclear Cardiology, 2007, 14, S100-S109.	1.4	14
33	Synthesis of tricarbonyl rhenium and technetium complexes of a 5- <sup>2</sup> -carboxamide 5-ethyl-2-deoxyuridine for selective inhibition of herpes simplex virus thymidine kinase 1. Journal of Organometallic Chemistry, 2007, 692, 1340-1347.	0.8	17
34	The particular role of radiopharmacy within bioorganometallic chemistry. Journal of Organometallic Chemistry, 2007, 692, 1179-1186.	0.8	91
35	Melanoma targeting with $\pm$ -melanocyte stimulating hormone analogs labeled with fac-[ <sup>99m</sup> Tc(CO) <sub>3</sub> ] <sup>+</sup> : effect of cyclization on tumor-seeking properties. Journal of Biological Inorganic Chemistry, 2008, 13, 449-459.	1.1	49
36	Synthesis, characterization, and evaluation of a novel <sup>99m</sup> Tc(CO) <sub>3</sub> pyrazolyl conjugate of a peptide nucleic acid sequence. Journal of Biological Inorganic Chemistry, 2008, 13, 1335-1344.	1.1	25
37	Click-Chelate: Design and Incorporation of Triazole-Containing Metal-Chelating Systems into Biomolecules of Diagnostic and Therapeutic Interest. Chemistry - A European Journal, 2008, 14, 6173-6183.	1.7	165

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38	Synthesis and structural investigation of mono- and polynuclear copper complexes of 4-ethyl-1-(pyridin-2-yl) thiosemicarbazide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 73-79.	2.0	55
39	Preparation and characterization of technetium and rhenium tricarbonyl complexes bearing the 4-nitrobenzyl moiety as potential bioreductive diagnostic radiopharmaceuticals. <i>In vitro and in vivo studies</i> . <i>European Journal of Medicinal Chemistry</i> , 2008, 43, 741-748.	2.6	26
40	Pyridine- <i>tert</i> -Nitrogen-Phenol Ligands: N,N,O-Type Tripodal Chelates for the [M(CO) <sub>3</sub> ] <sup>+</sup> Core (M = Re, Tc). <i>Journal of Inorganic Biochemistry</i> , 2008, 94, 100-107.	1.9	17
41	Bifunctional coupling agents for radiolabeling of biomolecules and target-specific delivery of metallic radionuclides. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 1347-1370.	6.6	349
42	Glycation Methods for Bombesin Analogs Containing the (N- <sup>99m</sup> Tc(CO) <sub>3</sub> )-His)Ac chelator for <sup>99m</sup> Tc(CO) <sub>3</sub> Radiolabeling. <i>Chemical Biology and Drug Design</i> , 2008, 72, 496-506.	1.5	19
43	Synthesis and Evaluation of Technetium-99m- and Rhenium-Labeled Inhibitors of the Prostate-Specific Membrane Antigen (PSMA). <i>Journal of Medicinal Chemistry</i> , 2008, 51, 4504-4517.	2.9	223
44	<sup>99m</sup> Tc-Technetium carbohydrate conjugates as potential agents in molecular imaging. <i>Chemical Communications</i> , 2008, , 5077.	2.2	77
45	Substitution reactions with [ReBr <sub>2</sub> (CO) <sub>2</sub> (NCCH <sub>3</sub> ) <sub>2</sub> ] <sup>+</sup> : a convenient route to complexes with the cis-[Re(CO) <sub>2</sub> ] <sup>+</sup> core. <i>Dalton Transactions</i> , 2008, , 5800.	1.6	10
46	A <sup>99m</sup> Tc(CO) <sub>3</sub> -labeled pyrazolyl- <sup>125</sup> I-melanocyte-stimulating hormone analog conjugate for melanoma targeting. <i>Nuclear Medicine and Biology</i> , 2008, 35, 91-99.	0.3	52
47	Radiolabeling of annexin A5 with <sup>99m</sup> Tc: comparison of HYNIC-Tc vs. iminothiolane-Tc-tricarbonyl conjugates. <i>Nuclear Medicine and Biology</i> , 2008, 35, 679-687.	0.3	31
48	Click-to-Chelate: In Vitro and In Vivo Comparison of a <sup>99m</sup> Tc(CO) <sub>3</sub> -Labeled N(1,2,3)-Histidine Folate Derivative with Its Isostructural, Clicked 1,2,3-Triazole Analogue. <i>Bioconjugate Chemistry</i> , 2008, 19, 1689-1695.	1.8	97
49	A robust strategy for the preparation of libraries of metallopeptides. A new paradigm for the discovery of targeted molecular imaging and therapy agents. <i>Chemical Communications</i> , 2008, , 5532.	2.2	20
50	Convenient Route Leading to Neutral M(CO) <sub>3</sub> (NNO) Complexes (M = Re, Tc). <i>Journal of Inorganic Biochemistry</i> , 2008, 94, 100-107.	1.9	14
51	Expedient Multi-Step Synthesis of Organometallic Complexes of Tc and Re in High Effective Specific Activity. A New Platform for the Production of Molecular Imaging and Therapy Agents. <i>Inorganic Chemistry</i> , 2008, 47, 8213-8221.	1.9	37
53	Radiometal Targeted Tumor Diagnosis and Therapy with Peptide Hormones. <i>Current Pharmaceutical Design</i> , 2008, 14, 2385-2400.	0.9	39
54	Imaging of Integrins as Biomarkers for Tumor Angiogenesis. <i>Current Pharmaceutical Design</i> , 2008, 14, 2943-2973.	0.9	198
57	Synthesis of Small Peptides and Their Use as Bifunctional Chelating Agents in Diagnostic Radiopharmaceuticals. <i>Chinese Journal of Chemistry</i> , 2009, 27, 195-201.	2.6	3
58	The Chemistry of Technetium-Water Complexes within the Manganese Triad: Challenges and Perspectives. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 21-31.	1.0	56

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59	Radioactive synthesis and biodistribution study of $^{99m}\text{Tc}(\text{CO})_3$ conjugates. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 899-904.	1.1	4
60	Rhenium(I) and technetium-99m(I) fac-tricarbonyl complexes with 4-(imidazolin-2-yl)-3-thiabutanoic acid derivatives as tridentate ligands: Synthesis and structural characterization. <i>Polyhedron</i> , 2009, 28, 3171-3176.	1.0	7
61	Synthesis and structural characterization of novel neutral fac-M(CO) <sub>3</sub> (NSO) complexes (M=Re, $^{99m}\text{Tc}$ ) with N-acetylcysteine derivatives as tridentate NSO ligands. <i>Polyhedron</i> , 2009, 28, 3317-3321.	1.0	4
62	Syntheses, structural studies and spectroscopic characterisation of pyridyl-phthalimide complexes of fac-(CO) <sub>3</sub> ReI-diimines. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 1400-1406.	0.8	28
63	Structural Assessment and Biological Evaluation of Two N <sub>3</sub> S Bombesin Derivatives. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 4234-4246.	2.9	18
64	Evaluation of single amino acid chelate derivatives and regioselective radiolabelling of a cyclic peptide for the urokinase plasminogen activator receptor. <i>Nuclear Medicine and Biology</i> , 2009, 36, 907-917.	0.3	12
65	Chemistry of Metal Radionuclides (Rb, Ga, In, Y, Cu and Tc). , 2009, , 179-196.		0
66	Thermodynamic study of proton transfer reactions of Re(V) trans-dioxocomplexes in aqueous solution. <i>Dalton Transactions</i> , 2009, , 8257.	1.6	4
67	Investigation of the Coordination Interactions of S-(Pyridin-2-ylmethyl)-Cysteine Ligands with M(CO) <sub>3</sub> (M = Re, $^{99m}\text{Tc}$ ). <i>Inorganic Chemistry</i> , 2009, 48, 10625-10634.	1.9	25
68	Click chemistry for [ $^{99m}\text{Tc}(\text{CO})_3$ ] labeling of Lys3-bombesin. <i>Applied Radiation and Isotopes</i> , 2010, 68, 2274-2278.	0.7	13
69	Rhenium(I) and technetium(I) fac-M(NSO)(CO) <sub>3</sub> (M=Re, $^{99m}\text{Tc}$ ) tricarbonyl complexes, with a tridentate NSO bifunctional agent: Synthesis, structural characterization, and radiochemistry. <i>Polyhedron</i> , 2010, 29, 876-880.	1.0	20
70	Rhenium tricarbonyl complexes of 1-benzyl-4-(5-bipyridyl)-1H-1,2,3-triazoles. <i>Inorganica Chimica Acta</i> , 2010, 363, 2520-2525.	1.2	8
71	Efficient preparation of $^{99m}\text{Tc}(\text{III}) \sim 4+1$ mixed-ligand complexes for peptide labeling with high specific activity. <i>Applied Radiation and Isotopes</i> , 2010, 68, 1728-1733.	0.7	8
72	Radiometal Complexes in Molecular Imaging and Therapy. <i>Current Medicinal Chemistry</i> , 2010, 17, 3673-3683.	1.2	21
73	$^{99m}\text{Tc}$ -Radiolabelled Peptides for Tumour Imaging: Present and Future. <i>Current Medicinal Chemistry</i> , 2010, 17, 2656-2683.	1.2	26
74	$^{99m}\text{Tc}$ and $^{111}\text{In}$ -Labeling of Small Biomolecules: Bifunctional Chelators and Related Coordination Chemistry. <i>Current Topics in Medicinal Chemistry</i> , 2010, 10, 1113-1134.	1.0	26
75	Technetium and Gallium Derived Radiopharmaceuticals: Comparing and Contrasting the Chemistry of Two Important Radiometals for the Molecular Imaging Era. <i>Chemical Reviews</i> , 2010, 110, 2903-2920.	23.0	279
76	Migration and homing of bone-marrow mononuclear cells in chronic ischemic stroke after intra-arterial injection. <i>Experimental Neurology</i> , 2010, 221, 122-128.	2.0	118

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77	Synthesis, characterization and antibacterial activity of Pd(II), Pt(II) and Ag(I) complexes of 4-ethyl and 4-( <i>p</i> -tolyl)-1-(pyridin-2-yl)thiosemicarbazides. <i>Journal of Sulfur Chemistry</i> , 2010, 31, 141-151.	1.0	21
78	99mTc: Labeling Chemistry and Labeled Compounds. , 2011, , 2073-2120.		12
79	Metal-Based Radiopharmaceuticals. , 2011, , 253-282.		14
80	Metallic radionuclides in the development of diagnostic and therapeutic radiopharmaceuticals. <i>Dalton Transactions</i> , 2011, 40, 6112.	1.6	119
81	Safety of autologous bone marrow mononuclear cell transplantation in patients with nonacute ischemic stroke. <i>Regenerative Medicine</i> , 2011, 6, 45-52.	0.8	147
82	A Modular Strategy to Prepare Multivalent Inhibitors of Prostate-Specific Membrane Antigen (PSMA). <i>Oncotarget</i> , 2011, 2, 1244-1253.	0.8	53
84	Benzimidazole derivatives as NSO ligands for the fac-[M(CO) <sub>3</sub> ] <sup>+</sup> (M=Re, 99mTc). <i>Inorganica Chimica Acta</i> , 2011, 377, 62-68.	1.2	5
85	Histidine derivatives as tridentate chelators for the fac-[M(CO) <sub>3</sub> ] (Re, 99mTc, 188Re) core: Synthesis, structural characterization, radiochemistry and stability. <i>Inorganica Chimica Acta</i> , 2011, 378, 333-337.	1.2	18
86	Bisphosphonates as radionuclide carriers for imaging or systemic therapy. <i>Molecular BioSystems</i> , 2011, 7, 2950.	2.9	55
87	A Click procedure with heterogeneous copper to tether technetium-99m chelating agents and rhenium complexes. Evaluation of the chelating properties and biodistribution of the new radiolabelled glucose conjugates. <i>Carbohydrate Research</i> , 2011, 346, 26-34.	1.1	28
88	First example of well-characterized Re and 99mTc tricarbonyl complexes of ciprofloxacin and norfloxacin in the development of infection-specific imaging agents. <i>Inorganica Chimica Acta</i> , 2011, 370, 236-242.	1.2	26
89	Chelating Agents and their Use in Radiopharmaceutical Sciences. <i>Mini-Reviews in Medicinal Chemistry</i> , 2011, 11, 968-983.	1.1	30
90	In Vitro and In Vivo Evaluation of Melanin-Binding Decapeptide 4B4 Radiolabeled with 177Lu, 166Ho, and 153Sm Radiolanthanides for the Purpose of Targeted Radionuclide Therapy of Melanoma. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2011, 26, 547-556.	0.7	10
91	New <sup>99m</sup> Tc(CO) <sub>3</sub> (NNO) complexes in the development of 5HT <sub>1A</sub> receptor imaging agents. <i>Radiochimica Acta</i> , 2011, 99, 307-315.	0.5	7
92	Preclinical Evaluation of <sup>99m</sup> Tc(CO) <sub>3</sub> -Aspartic-N-Monoacetic Acid, a Renal Radiotracer with Pharmacokinetic Properties Comparable to <sup>131</sup> I-iodohippurate. <i>Journal of Nuclear Medicine</i> , 2012, 53, 1277-1283.	2.8	17
93	Chelating Systems for 99mTc/188Re in the Development of Radiolabeled Peptide Pharmaceuticals. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2012, 12, 428-461.	0.9	38
94	APPLICATION OF TECHNETIUM AND RHENIUM IN NUCLEAR MEDICINE. <i>Cosmos</i> , 2012, 08, 83-101.	0.4	14
95	Radiolabeling of folate targeted multifunctional conjugate with Technetium-99m and biodistribution studies in rats. <i>Journal of Drug Targeting</i> , 2012, 20, 509-514.	2.1	6

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96	Pattern prediction and coordination geometry analysis from cadmium-binding proteins: a computational approach. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 1346-1358.	2.5	21
97	Fluorine- and rhenium-containing geldanamycin derivatives as leads for the development of molecular probes for imaging Hsp90. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 6724.	1.5	12
98	Iron oxide-filled micelles as ligands for fac-[M(CO) <sub>3</sub> ] <sup>+</sup> (M = <sup>99m</sup> Tc, Re). <i>Chemical Communications</i> , 2012, 48, 4211.	2.2	12
99	Radiotracers for different angiogenesis receptors in a melanoma model. <i>Melanoma Research</i> , 2012, 22, 45-53.	0.6	16
100	Rhenium(V) and Technetium(V) Nitrido Complexes with Mixed Tridentate $\pi$ -Donor and Monodentate $\pi$ -Acceptor Ligands. <i>Inorganic Chemistry</i> , 2012, 51, 3130-3137.	1.9	24
101	New Monodentate Amidine Superbasic Ligands with a Single Configuration in $\text{fac-[Re(CO)}_3\text{(5,5- or 6,6-Me}_2\text{bipyridine)(amidine)]BF}_4$ Complexes. <i>Inorganic Chemistry</i> , 2012, 51, 7271-7283.	1.9	7
102	Inorganic chemistry in nuclear imaging and radiotherapy: current and future directions. <i>Radiochimica Acta</i> , 2012, 100, 653-667.	0.5	59
103	Diagnostic imaging of Alzheimer's disease with copper and technetium complexes. <i>Coordination Chemistry Reviews</i> , 2012, 256, 2367-2380.	9.5	62
104	Cyclopentadienyl-Based Amino Acids (Cp-aa) As Phenylalanine Analogues for Tumor Targeting: Syntheses and Biological Properties of [(Cp-aa)M(CO) <sub>3</sub> ] (M = Mn, Re, <sup>99m</sup> Tc). <i>Organometallics</i> , 2012, 31, 6880-6886.	1.1	30
105	Proteoglycans. <i>Methods in Molecular Biology</i> , 2012, 836, vii-viii.	0.4	2
106	The interaction of <sup>99m</sup> Tc with pyrimidine compounds. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 292, 1123-1130.	0.7	4
107	The preparation and characterization of functionalized carboranes and Re/Tc-metallocarboranes as platforms for developing molecular imaging probes: Structural and cage isomerism studies. <i>Inorganica Chimica Acta</i> , 2012, 389, 159-167.	1.2	20
108	Synthesis and comparative assessment of a labeled RGD peptide bearing two different <sup>99m</sup> Tc-tricarbonyl chelators for potential use as targeted radiopharmaceutical. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 2549-2557.	1.4	25
109	Complexes of an Alpha Thymosin Derivative with <sup>185/187</sup> Re and <sup>99m</sup> Tc: Structural Analysis and Initial Biological Evaluation. <i>Chemical Biology and Drug Design</i> , 2012, 80, 545-553.	1.5	3
110	Preparation of technetium- <sup>99m</sup> bifunctional chelate complexes using a microfluidic reactor: a comparative study with conventional and microwave labeling methods. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2012, 55, 18-22.	0.5	16
111	Synthesis, characterization, and biological studies of emissive rhenium- <sup>99m</sup> glutamine conjugates. <i>Journal of Biological Inorganic Chemistry</i> , 2013, 18, 831-844.	1.1	18
112	SPECT/PET Imaging with Technetium, Gallium, Copper, and Other Metallic Radionuclides. , 2013, , 785-817.		12
113	Preparation and characterization of rhenium(I) complexes with thiosemicarbazone ligands derived from resorcinol. <i>Polyhedron</i> , 2013, 65, 221-228.	1.0	10

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114	Synthesis, radiolabeling and bioevaluation of a novel arylpiperazine derivative containing triazole as a 5-HT1A receptor imaging agents. <i>Nuclear Medicine and Biology</i> , 2013, 40, 227-232.	0.3	5
115	Emission wavelength variation with changes in excitation in a Re(i)â€bisthiazole ligand complex that breaks the Kashaâ€Vavilov rule. <i>Chemical Science</i> , 2013, 4, 2490.	3.7	29
116	Orthogonally Protected Artificial Amino Acid as Tripod Ligand for Automated Peptide Synthesis and Labeling with [ <sup>99m</sup> Tc(OH <sub>2</sub> ) <sub>3</sub> (CO) <sub>3</sub> ] <sup>+</sup> . <i>Bioconjugate Chemistry</i> , 2013, 24, 26-35.	1.8	13
117	Heptyl ð€Dâ€Mannosides Grafted on a ð€Cyclodextrin Core To Interfere with <i>Escherichia coli</i> Adhesion: An In Vivo Multivalent Effect. <i>Chemistry - A European Journal</i> , 2013, 19, 7847-7855.	1.7	63
118	pH-Controlled Coordination Mode Rearrangements of â€Clickableâ€Huisgen-Based Multidentate Ligands with [M <sup>3+</sup> (CO) <sub>3</sub> ] <sup>+</sup> (M = Re, <sup>99m</sup> Tc). <i>Inorganic Chemistry</i> , 2013, 52, 2939-2950.	1.9	20
119	Effect of Chelators on the Pharmacokinetics of <sup>99m</sup> Tc-Labeled Imaging Agents for the Prostate-Specific Membrane Antigen (PSMA). <i>Journal of Medicinal Chemistry</i> , 2013, 56, 6108-6121.	2.9	57
120	Biodistribution of bone marrow mononuclear cells after intra-arterial or intravenous transplantation in subacute stroke patients. <i>Regenerative Medicine</i> , 2013, 8, 145-155.	0.8	107
121	Tetraamine-Coupled Peptides and Resulting <sup>99m</sup> Tc-Radioligands: An Effective Route for Receptor-Targeted Diagnostic Imaging of Human Tumors. <i>Current Topics in Medicinal Chemistry</i> , 2013, 12, 2655-2667.	1.0	25
124	Physicochemical studies of the reaction of <sup>99m</sup> Tc with 5,5â€diethyl barbituric acid, adenine, d-glucose and thiobarbituric acid at different temperatures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 127, 216-224.	2.0	1
125	Radiolabeled NGR phage display peptide sequence for tumor targeting. <i>Applied Radiation and Isotopes</i> , 2014, 86, 41-45.	0.7	19
126	Metallodrugs in Medicinal Inorganic Chemistry. <i>Chemical Reviews</i> , 2014, 114, 4540-4563.	23.0	984
127	Complexes Possessing Rare â€Tertiaryâ€Sulfonamide Nitrogen-to-Metal Bonds of Normal Length: <i>cis-fac</i> -[Re(CO) <sub>3</sub> (N(SO <sub>2</sub> R) <sub>2</sub> ) <sub>2</sub> ]PF <sub>6</sub> Complexes with Hydrophilic Sulfonamide Ligands. <i>Inorganic Chemistry</i> , 2014, 53, 1144-1155.	1.9	12
128	Underscoring the Influence of Inorganic Chemistry on Nuclear Imaging with Radiometals. <i>Inorganic Chemistry</i> , 2014, 53, 1880-1899.	1.9	75
129	Single amino acid chelate complexes of the M(CO) <sub>3</sub> <sup>+</sup> core for correlating fluorescence and radioimaging studies (M = <sup>99m</sup> Tc or Re). <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2014, 57, 255-261.	0.5	42
130	PET/SPECT imaging agents for neurodegenerative diseases. <i>Chemical Society Reviews</i> , 2014, 43, 6683-6691.	18.7	131
131	In silico analysis of metal coordination geometry in arsenic, beryllium, and lead bound structures. <i>Journal of Coordination Chemistry</i> , 2014, 67, 1888-1904.	0.8	4
133	<sup>99m</sup> Tc-binding site in bone marrow mononuclear cells. <i>Stem Cell Research and Therapy</i> , 2015, 6, 115.	2.4	5
134	<i>Structure and Properties of cis-fac</i> -[Re( <sup>99m</sup> Tc)(CO) <sub>3</sub> (NTA)] <sup>+</sup> (NTA <sup>3-</sup> = Trifluoroacetate) and <i>cis-fac</i> -[Re( <sup>99m</sup> Tc)(CO) <sub>3</sub> (L)] <sup>+</sup> Analogues Useful for Assessing the Excellent Renal Clearance of the <i>cis-fac</i> -[ <sup>99m</sup> Tc( <sup>99m</sup> Tc)(CO) <sub>3</sub> (NTA)] <sup>+</sup> Diagnostic Renal Agent. <i>Inorganic Chemistry</i> , 2015, 54, 6281-6290.	1.9	8

#	ARTICLE	IF	CITATIONS
135	Pilot safety study of intrabronchial instillation of bone marrow-derived mononuclear cells in patients with silicosis. <i>BMC Pulmonary Medicine</i> , 2015, 15, 66.	0.8	28
136	Optimized Preparation of a <sup>99m</sup> Tc-Radiolabeled Probe for Tracing MicroRNA. <i>Cell Biochemistry and Biophysics</i> , 2015, 71, 905-912.	0.9	4
137	The Past, Current Studies and Future of Organometallic <sup>99m</sup> Tc(CO) <sub>3</sub> Labeled Peptides and Proteins. <i>Current Pharmaceutical Design</i> , 2016, 22, 4854-4867.	0.9	11
139	<i>fac</i> -[Re(H <sub>2</sub> O) <sub>3</sub> (CO) <sub>3</sub> ] <sup>+</sup> Complexed with Histidine and Imidazole in Aqueous Solution: Speciation, Affinity and Binding Features. <i>ChemistrySelect</i> , 2016, 1, 3739-3744.	0.7	5
140	Feasibility of imaging of epidermal growth factor receptor expression with ZEGFR:2377 affibody molecule labeled with <sup>99m</sup> Tc using a peptide-based cysteine-containing chelator. <i>International Journal of Oncology</i> , 2016, 49, 2285-2293.	1.4	27
141	Synthesis and evaluation of a novel <sup>99m</sup> TcN(PNP)-complex with metronidazole isocyanide ligand as a marker for tumor hypoxia. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 308, 363-369.	0.7	7
142	Synthesis and evaluation of <i>fac</i> -[ <sup>99m</sup> Tc/Re(CO) <sub>3</sub> ] <sup>+</sup> complexes with a new (N,S,N) bifunctional chelating agent: The first example of a <i>fac</i> -[Re(CO) <sub>3</sub> (N,S,N-sst2-ANT)] complex bearing a somatostatin receptor antagonist peptide. <i>Journal of Organometallic Chemistry</i> , 2016, 805, 100-107.	0.8	14
143	Neutral <i>fac</i> -[Re(NNN)(CO) <sub>3</sub> ] <sup>0</sup> complexes with NNN tridentate ligands containing pyrrole or indole. <i>Inorganic Chemistry Communication</i> , 2016, 63, 1-4.	1.8	3
144	Environmental geochemistry of technetium. <i>Environmental Chemistry Letters</i> , 2017, 15, 241-263.	8.3	41
146	Recent development of luminescent rhenium( <sup>+</sup> ) tricarbonyl polypyridine complexes as cellular imaging reagents, anticancer drugs, and antibacterial agents. <i>Dalton Transactions</i> , 2017, 46, 16357-16380.	1.6	142
147	Comparative evaluation of tumor targeting using the anti-HER2 ADAPT scaffold protein labeled at the C-terminus with indium-111 or technetium-99m. <i>Scientific Reports</i> , 2017, 7, 14780.	1.6	17
149	Influence of composition of cysteine-containing peptide-based chelators on biodistribution of <sup>99m</sup> Tc-labeled anti-EGFR affibody molecules. <i>Amino Acids</i> , 2018, 50, 981-994.	1.2	16
150	Synthesis and evaluation of <sup>99m</sup> Tc/Re-tricarbonyl complexes of the triphenylphosphonium cation for mitochondrial targeting. <i>Nuclear Medicine and Biology</i> , 2018, 57, 34-41.	0.3	14
151	Radioisotopic purity and imaging properties of cyclotron-produced <sup>99m</sup> Tc using direct <sup>100</sup> Mo( <sup>p</sup> , <sub>2</sub> <sup>n</sup> ) reaction. <i>Physics in Medicine and Biology</i> , 2018, 63, 185021.	1.6	17
152	Technetium-99m metastable radiochemistry for pharmaceutical applications: old chemistry for new products. <i>Journal of Coordination Chemistry</i> , 2019, 72, 1759-1784.	0.8	21
153	Development of the <sup>99m</sup> Tc-Hydroxamamide Complex as a Probe Targeting Carbonic Anhydrase IX. <i>Molecular Pharmaceutics</i> , 2019, 16, 1489-1497.	2.3	10
154	Chemistry at High Dilution: Dinuclear <sup>99m</sup> Tc Complexes. <i>Chemistry - A European Journal</i> , 2019, 25, 7101-7104.	1.7	14
155	<i>fac</i> - <sup>99m</sup> Tc/Re-tricarbonyl complexes with tridentate aminocarboxyphosphonate ligands: Suitability of the phosphonate group in chelate ligand design of new imaging agents. <i>Inorganica Chimica Acta</i> , 2019, 486, 529-537.	1.2	12

#	ARTICLE	IF	CITATIONS
156	Toward the Discovery and Development of PSMA Targeted Inhibitors for Nuclear Medicine Applications. <i>Current Radiopharmaceuticals</i> , 2020, 13, 63-79.	0.3	40
157	Synthesis and evaluation of novel technetium-99m-hydroxamamide complex based on imidazothiadiazole sulfonamide targeting carbonic anhydrase-IX for tumor imaging. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127596.	1.0	5
158	Water-Soluble Rhenium Phosphine Complexes Incorporating the Ph <sub>2</sub> C(X) Motif (X = O <sup>2-</sup> , NH <sup>+</sup> ): Structural and Cytotoxicity Studies. <i>Inorganic Chemistry</i> , 2020, 59, 2367-2378.	1.9	6
159	Recent advances in porphyrin-based MOFs for cancer therapy and diagnosis therapy. <i>Coordination Chemistry Reviews</i> , 2021, 439, 213945.	9.5	82
160	Development of a hydroxamamide-based bifunctional chelating agent to prepare technetium-99m-labeled bivalent ligand probes. <i>Scientific Reports</i> , 2021, 11, 18714.	1.6	0
161	In Vivo Scintigraphic Imaging of Proteoglycans. <i>Methods in Molecular Biology</i> , 2012, 836, 183-198.	0.4	9
162	Ab Initio Coordination Chemistry for Nickel Chelation Motifs. <i>PLoS ONE</i> , 2015, 10, e0126787.	1.1	19
163	<sup>99m</sup> Tc-labeled Small Molecules for Diagnosis of Alzheimer's Disease: Past, Recent and Future Perspectives. <i>Current Medicinal Chemistry</i> , 2019, 26, 2166-2189.	1.2	4
164	Minimizing liver uptake of cationic <sup>99m</sup> Tc radiotracers with ether and crown ether functional groups. <i>World Journal of Hepatology</i> , 2010, 2, 21.	0.8	17
165	Synthesis and In vitro Evaluation of <sup>99m</sup> Tc-diglucosediethylenetriamine (DGTA) as a Potential Tumor Imaging Agent. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 2410-2412.	1.0	1
166	Synthesis, Characterization and Biological Activities of 4-(p-Chlorophenyl)-1-(pyridin-2-yl)thiosemicarbazide and Its Metal Complexes. <i>Journal of the Korean Chemical Society</i> , 2012, 56, 679-691.	0.2	1
167	Technetium Organometallics. , 2005, , 833-854.		4
168	Estudos in vitro e in vivo de análogo da timidina marcada com complexo organometálico de tecnécio-99m para potencial uso em diagnóstico tumoral. <i>BJPS: Brazilian Journal of Pharmaceutical Sciences</i> , 2008, 44, 85-95.	0.5	0
170	CHAPTER 10. Supramolecular Metal Complexes for Imaging and Radiotherapy. <i>Monographs in Supramolecular Chemistry</i> , 2013, , 300-330.	0.2	0
171	Radiolabeled Peptides for SPECT and PET Imaging in the Detection of Breast Cancer: Preclinical and Clinical Perspectives. <i>Current Medicinal Chemistry</i> , 2020, 27, 6987-7002.	1.2	5
172	Radiopharmaceutical Sciences. , 2020, , 49-191.		2
173	Development of Radiopharmaceutical Composition for Radionuclide Diagnostics of Malignant Melanoma. <i>Drug Development and Registration</i> , 2020, 9, 66-71.	0.2	2
177	N-Centered Tripodal Phosphine Re(V) and Tc(V) Oxo Complexes: Revisiting a [3 + 2] Mixed-Ligand Approach. <i>Inorganic Chemistry</i> , 2022, 61, 8000-8014.	1.9	3

#	ARTICLE	IF	CITATIONS
178	Technetium(I) carbonyl complexes for nuclear medicine: Coordination-chemical aspect. Coordination Chemistry Reviews, 2023, 476, 214911.	9.5	5
179	[ <sup>99m</sup> Tc]Tc-HYNIC-RM2: A potential SPECT probe targeting GRPR expression in prostate cancers. Nuclear Medicine and Biology, 2023, 118-119, 108331.	0.3	1
180	Metal Radionuclides for Molecular Imaging. , 2023, , 259-289.		0