

# Gadolinium(iii) complexes as MRI contrast agents: ligand complexes

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Ion-Pair Chromatography (MPIC)., 0, , 239-289.		0
2	New synthesis of a high molecular weight ligand derived from dota; thermodynamic stability of the MRI contrast agent formed with gadolinium. Contrast Media and Molecular Imaging, 2008, 3, 243-252.	0.4	4
3	An Assessment of the Potential Relationship between the Charge of Gd <sup>III</sup> -DTPA Complexes and the Exchange Rate of the Water Coordinated to the Metal. European Journal of Inorganic Chemistry, 2008, 2008, 4369-4379.	1.0	21
4	Synthesis and characterization of novel natural product-Gd(III) MRI contrast agent conjugates. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 6058-6061.	1.0	16
5	The Role of Imaging in Proof of Concept for CNS Drug Discovery and Development. Neuropsychopharmacology, 2009, 34, 187-203.	2.8	161
6	<sup>1</sup> H NMR relaxivity of aqueous suspensions of titanium dioxide nanoparticles coated with a gadolinium(III) chelate of a DOTA-monoamide with a phenylphosphonate pendant arm. Journal of Materials Chemistry, 2009, 19, 1494.	6.7	17
8	Prospects of Metal Complexes Peripherally Substituted with Sugars in Biomedical Applications. Chemistry - A European Journal, 2009, 15, 1548-1557.	1.7	87
9	Lanthanide(III) Complexes of 2-[(4,7,10-tris(phosphonomethyl)-1,4,7,10-tetraazacyclododecan-1-yl)acetic Acid (H <sub>7</sub> DOA3P): Multinuclear NMR and Kinetic Studies. Helvetica Chimica Acta, 2009, 92, 2398-2413.	1.0	11
10	Lanthanide(III) Complexes of Phosphorus Acid Analogues of H <sub>4</sub> DOTA as Model Compounds for the Evaluation of the Second-Sphere Hydration. European Journal of Inorganic Chemistry, 2009, 2009, 119-136.	1.0	55
11	Relaxometric, Thermodynamic and Kinetic Studies of Lanthanide(III) Complexes of DO3A-Based Propylphosphonates. European Journal of Inorganic Chemistry, 2009, 2009, 3298-3306.	1.0	8
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13	Lanthanide Complexes for Nonlinear Optics: From Fundamental Aspects to Applications. European Journal of Inorganic Chemistry, 2009, 2009, 4357-4371.	1.0	153
14	Chemical, radiochemical and biological studies of Sm and Ho complexes of H <sub>4</sub> dota analogues containing one methylphosphonic/phosphinic acid pendant arm. Journal of Labelled Compounds and Radiopharmaceuticals, 2010, 53, 36-43.	0.5	13
15	Biotinylation of aminopyridine-based macrocycles and metallomacrocycles and inclusion of biotinylated iron(II) complex in avidin. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2009, 64, 15-21.	1.6	6
16	Review on supermolecules as chemical drugs. Science in China Series B: Chemistry, 2009, 52, 415-458.	0.8	77
17	An efficient route to pyridine and 2,2'-bipyridine macrocycles incorporating a triethylenetetraminetetraacetic acid core as ligand for lanthanide ions. Tetrahedron Letters, 2009, 50, 6522-6525.	0.7	8
18	Syntheses and crystal structures of gadolinium and europium complexes of AAZTA analogues. Polyhedron, 2009, 28, 1525-1531.	1.0	17
19	Complexation and biodistribution study of <sup>111</sup> In and <sup>90</sup> Y complexes of bifunctional phosphinic acid analogs of H <sub>4</sub> dota. Applied Radiation and Isotopes, 2009, 67, 21-29.	0.7	10

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21	All-Electron Scalar Relativistic Basis Sets for the Lanthanides. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2229-2238.	2.3	293
22	Lanthanide(III) Complexes of Pyridine- <i>N</i> -Oxide Analogues of DOTA in Solution and in the Solid State. A New Kind of Isomerism in Complexes of DOTA-like Ligands. <i>Inorganic Chemistry</i> , 2009, 48, 466-475.	1.9	43
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26	Inorganic pharmaceuticals. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2009, 105, 505.	0.8	3
27	Design and function of metal complexes as contrast agents in MRI. <i>Advances in Inorganic Chemistry</i> , 2009, 61, 63-129.	0.4	49
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31	Paramagnetic Gd-based gold glyconanoparticles as probes for MRI: tuning relaxivities with sugars. <i>Chemical Communications</i> , 2009, , 3922.	2.2	77
32	Scandium, yttrium, the lanthanides. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2009, 105, 276.	0.8	2
33	Structural variability in uranyl <sup>VI</sup> -lanthanide heterometallic complexes with DOTA and oxalato ligands. <i>CrystEngComm</i> , 2009, 11, 2319.	1.3	42
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35	Variation of water exchange dynamics with ligand structure and stereochemistry in lanthanide complexes based on 1,4-diazepine derivatives. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1120.	1.5	34
37	<i>In vivo</i> small animal imaging: Current status and future prospects. <i>Medical Physics</i> , 2010, 37, 6421-6442.	1.6	121
38	Towards MRI contrast agents responsive to Ca <sup>2+</sup> and Mg <sup>2+</sup> ions: metal <sup>II</sup> -induced oligomerization of dota <sup>III</sup> -bisphosphonate conjugates. <i>Contrast Media and Molecular Imaging</i> , 2010, 5, 294-296.	0.4	21

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41	Cyclodextrin-Based Bimodal Fluorescence/MRI Contrast Agents: An Efficient Approach to Cellular Imaging. Chemistry - A European Journal, 2010, 16, 10094-10102.	1.7	49
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46	Synthesis and characterization of multifunctional hyperbranched polyesters as prospective contrast agents for targeted MRI. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 4177-4181.	1.0	26
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70	New potential bimodal imaging contrast agents based on DOTA-like and porphyrin macrocycles. <i>MedChemComm</i> , 2011, 2, 119-125.	3.5	49
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75	Highly biocompatible TiO <sub>2</sub> :Gd <sup>3+</sup> nano-contrast agent with enhanced longitudinal relaxivity for targeted cancer imaging. <i>Nanoscale</i> , 2011, 3, 4150.	2.8	34

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77	Chelating oleyl-EDTA amphiphiles: self-assembly, colloidal particles, complexation with paramagnetic metal ions and promise as magnetic resonance imaging contrast agents. <i>Soft Matter</i> , 2011, 7, 10994.	1.2	31
78	Structure, stability and relaxivity of trinuclear triangular complexes. <i>Dalton Transactions</i> , 2011, 40, 4284.	1.6	7
79	Synthesis, characterization, and biological activity of some lanthanide ternary complexes. <i>Journal of Coordination Chemistry</i> , 2011, 64, 2342-2352.	0.8	13
80	Lanthanide complexes as imaging agents anchored on nano-sized particles of boehmite. <i>Dalton Transactions</i> , 2011, 40, 6451.	1.6	18
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109	The Solution Structure and Dynamics of MRI Probes Based on Lanthanide(III) DOTA as Investigated by DFT and NMR Spectroscopy. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2023-2033.	1.0	51
110	Characterization of nanoparticle-based contrast agents for molecular magnetic resonance imaging. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	15
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112	Mixed polymeric micelles as multifunctional scaffold for combined magnetic resonance imaging contrast enhancement and targeted chemotherapeutic drug delivery. <i>Journal of Materials Chemistry</i> , 2012, 22, 5020.	6.7	58
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120	Macromolecular Ligands for Gadolinium MRI Contrast Agents. <i>Macromolecules</i> , 2012, 45, 4196-4204.	2.2	133
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131	Lanthanide Loaded Zeolites, Clays, and Mesoporous Silica Materials as MRI Probes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1961-1974.	1.0	50
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133	Tris(phosphonomethyl)cyclen Derivatives: Thermodynamic Stability, Kinetics, Solution Structure, and Relaxivity of Ln <sup>3+</sup> Complexes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2548-2559.	1.0	5
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136	Kinetically Stable Ln <sup>III</sup> Complexes Comprising a Trinuclear Core Sandwiched between Two Thiocalix[4]arene Ligands Self-Assembled in Water (Ln <sup>III</sup> = Nd <sup>III</sup> ,) <i>TJ ETQq 1 0.784314 rgt /Overlock 10</i>		
137	Hydrogels Incorporating GdDOTA: Towards Highly Efficient Dual <sup>1</sup> H/ <sup>19</sup> F MRI Contrast Agents. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9119-9122.	7.2	134
138	<sup>1</sup> H, <sup>89</sup> Y HMQC and Further NMR Spectroscopic and X-ray Diffraction Investigations on Yttrium-Containing Complexes Exhibiting Various Nuclearities. <i>Chemistry - A European Journal</i> , 2012, 18, 5325-5334.	1.7	29
139	Theranostic Gd(III)-lipid microbubbles for MRI-guided focused ultrasound surgery. <i>Biomaterials</i> , 2012, 33, 247-255.	5.7	51
140	Synthesis and functional evaluation of chiral dendrimer-triamine-coordinated Gd complexes as highly sensitive MRI contrast agents. <i>Tetrahedron Letters</i> , 2012, 53, 4580-4583.	0.7	9
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