

Mauro Botta

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ext. papers

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L-index

#	Paper	IF	Citations
275	Lanthanide(III) chelates for NMR biomedical applications. <i>Chemical Society Reviews</i> , 1998 , 27, 19-29	58.5	612
274	Conformational and Coordination Equilibria on DOTA Complexes of Lanthanide Metal Ions in Aqueous Solution Studied by (1)H-NMR Spectroscopy. <i>Inorganic Chemistry</i> , 1997 , 36, 2059-2068	5.1	292
273	Gd(III)-BASED CONTRAST AGENTS FOR MRI. <i>Advances in Inorganic Chemistry</i> , 2005 , 57, 173-237	2.1	284
272	NMR study of solution structures and dynamics of lanthanide(III) complexes of DOTA. <i>Inorganic Chemistry</i> , 1992 , 31, 4291-4299	5.1	278
271	The Selectivity of Reversible Oxy-Anion Binding in Aqueous Solution at a Chiral Europium and Terbium Center: Signaling of Carbonate Chelation by Changes in the Form and Circular Polarization of Luminescence Emission. <i>Journal of the American Chemical Society</i> , 2000 , 122, 9674-9684	16.4	257
270	pH-dependent modulation of relaxivity and luminescence in macrocyclic gadolinium and europium complexes based on reversible intramolecular sulfonamide ligation. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7601-9	16.4	246
269	NMR, Relaxometric, and Structural Studies of the Hydration and Exchange Dynamics of Cationic Lanthanide Complexes of Macrocyclic Tetraamide Ligands. <i>Journal of the American Chemical Society</i> , 1999 , 121, 5762-5771	16.4	240
268	Second Coordination Sphere Water Molecules and Relaxivity of Gadolinium(III) Complexes: Implications for MRI Contrast Agents. <i>European Journal of Inorganic Chemistry</i> , 2000 , 2000, 399-407	2.3	235
267	Structural, luminescence, and NMR studies of the reversible binding of acetate, lactate, citrate, and selected amino acids to chiral diaqua ytterbium, gadolinium, and europium complexes. <i>Journal of the American Chemical Society</i> , 2002 , 124, 12697-705	16.4	227
266	Prototropic and Water-Exchange Processes in Aqueous Solutions of Gd(III) Chelates. <i>Accounts of Chemical Research</i> , 1999 , 32, 941-949	24.3	180
265	Correlation of Water Exchange Rate with Isomeric Composition in Diastereoisomeric Gadolinium Complexes of Tetra(carboxyethyl)dota and Related Macrocyclic Ligands. <i>Journal of the American Chemical Society</i> , 2000 , 122, 9781-9792	16.4	170
264	High relaxivity gadolinium hydroxypyridonate-viral capsid conjugates: nanosized MRI contrast agents. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2546-52	16.4	156
263	Novel Contrast Agents for Magnetic Resonance Imaging. Synthesis and Characterization of the Ligand BOPTA and Its Ln(III) Complexes (Ln = Gd, La, Lu). X-ray Structure of Disodium (TPS-9-145337286-C-S)-[4-Carboxy-5,8,11-tris(carboxymethyl)-1-phenyl-2-oxa-5,8,11-triazatridecan-13-ato(5-)]gadoliniate(2-) in a Mixture with its Enantiomer. <i>Inorganic Chemistry</i> , 2008 , 47, 1022-1030	5.1	156
262	Relaxivity Enhancement in Macromolecular and Nanosized Gd(III)-Based MRI Contrast Agents. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 1945-1960	2.3	155
261	Gd(III) complexes as contrast agents for magnetic resonance imaging: a proton relaxation enhancement study of the interaction with human serum albumin. <i>Journal of Biological Inorganic Chemistry</i> , 1996 , 1, 312-319	3.7	152
260	A p(O ²⁻)-Responsive MRI Contrast Agent Based on the Redox Switch of Manganese(II / III) - Porphyrin Complexes. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 747-750	16.4	133
259	Large relaxivity enhancement of paramagnetic lipid nanoparticles by restricting the local motions of the Gd(III) chelates. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7836-7	16.4	127

258	Magnetic resonance contrast agents from viral capsid shells: a comparison of exterior and interior cargo strategies. <i>Nano Letters</i> , 2007 , 7, 2207-10	11.5	127
257	Ternary Gd(III)L-HSA adducts: evidence for the replacement of inner-sphere water molecules by coordinating groups of the protein. Implications for the design of contrast agents for MRI. <i>Journal of Biological Inorganic Chemistry</i> , 2000 , 5, 488-97	3.7	126
256	Structural variations across the lanthanide series of macrocyclic DOTA complexes: insights into the design of contrast agents for magnetic resonance imaging. <i>Inorganic Chemistry</i> , 2003 , 42, 148-57	5.1	124
255	Crystal structure and solution dynamics of the lutetium(III) chelate of DOTA. <i>Inorganica Chimica Acta</i> , 1996 , 246, 423-429	2.7	122
254	Direct NMR Spectroscopic Observation of a Lanthanide-Coordinated Water Molecule whose Exchange Rate Is Dependent on the Conformation of the Complexes. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 2673-2675	16.4	120
253	NMR relaxometric studies of Gd(III) complexes with heptadentate macrocyclic ligands. <i>Magnetic Resonance in Chemistry</i> , 1998 , 36, S200-S208	2.1	116
252	Solution and Solid-State Characterization of Highly Rigid, Eight-Coordinate Lanthanide(III) Complexes of a Macrocyclic Tetrabenzylphosphinate. <i>Inorganic Chemistry</i> , 1994 , 33, 4696-4706	5.1	111
251	Synthesis and NMR Studies of Three Pyridine-Containing Triaza Macrocyclic Triacetate Ligands and Their Complexes with Lanthanide Ions. <i>Inorganic Chemistry</i> , 1997 , 36, 2992-3000	5.1	104
250	PAMAM dendrimeric conjugates with a Gd-DOTA phosphinate derivative and their adducts with polyaminoacids: the interplay of global motion, internal rotation, and fast water exchange. <i>Bioconjugate Chemistry</i> , 2006 , 17, 975-87	6.3	104
249	Synthesis, characterization, and 1/T1 NMRD profiles of gadolinium(III) complexes of monoamide derivatives of DOTA-like ligands. X-ray structure of the 10-[2-[[2-hydroxy-1-(hydroxymethyl)ethyl]amino]-1-[(phenylmethoxy)methyl]-2-oxoethyl]-1,4,7,10-tetraazacyclododecane-gadolinium(III) complex. <i>Inorganic Chemistry</i> , 1992 , 31, 2422-2428	5.1	101
248	Highly luminescent Eu(3+) and Tb(3+) macrocyclic complexes bearing an appended phenanthroline chromophore. <i>Inorganic Chemistry</i> , 2002 , 41, 2777-84	5.1	97
247	Scaling Laws at the Nano Size: The Effect of Particle Size and Shape on the Magnetism and Relaxivity of Iron Oxide Nanoparticle Contrast Agents. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2818-2828	7.3	91
246	Structure and Function of Iron-Loaded Synthetic Melanin. <i>ACS Nano</i> , 2016 , 10, 10186-10194	16.7	89
245	Design principles and theory of paramagnetic fluorine-labelled lanthanide complexes as probes for (19)F magnetic resonance: a proof-of-concept study. <i>Chemistry - A European Journal</i> , 2010 , 16, 134-48	4.8	88
244	PrototropicvsWhole Water Exchange Contributions to the Solvent Relaxation Enhancement in the Aqueous Solution of a Cationic Gd3+Macrocyclic Complex. <i>Journal of the American Chemical Society</i> , 1997 , 119, 4767-4768	16.4	88
243	Relaxometric evaluation of novel manganese(II) complexes for application as contrast agents in magnetic resonance imaging. <i>Journal of Biological Inorganic Chemistry</i> , 2002 , 7, 58-67	3.7	88
242	Highly soluble tris-hydroxypyridonate Gd(III) complexes with increased hydration number, fast water exchange, slow electronic relaxation, and high relaxivity. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1870-1	16.4	85
241	Syntheses and relaxation properties of mixed gadolinium hydroxypyridinonate MRI contrast agents. <i>Inorganic Chemistry</i> , 2000 , 39, 5747-56	5.1	83

- 240 Nuclear magnetic resonance, luminescence and structural studies of lanthanide complexes with octadentate macrocyclic ligands bearing benzylphosphinate groups. *Journal of the Chemical Society Dalton Transactions*, **1997**, 3623-3636 82
- 239 NMR Evidence of a Long Exchange Lifetime for the Coordinated Water in Ln(III)-Bis(methyl amide)-DTPA Complexes (Ln = Gd, Dy). *Inorganic Chemistry*, **1994**, 33, 4707-4711 5.1 82
- 238 A macromolecular Gd(III) complex as pH-responsive relaxometric probe for MRI applications. *Chemical Communications*, **1999**, 1577-1578 5.8 80
- 237 Dendrimeric gadolinium chelate with fast water exchange and high relaxivity at high magnetic field strength. *Journal of the American Chemical Society*, **2005**, 127, 504-5 16.4 79
- 236 Glycoconjugates of gadolinium complexes for MRI applications. *Chemical Communications*, **2006**, 1064-6 5.8 77
- 235 Substituent effects on Gd(III)-based MRI contrast agents: optimizing the stability and selectivity of the complex and the number of coordinated water molecules. *Inorganic Chemistry*, **2006**, 45, 8355-64 5.1 77
- 234 Ternary complexes between cationic Gd(III) chelates and anionic metabolites in aqueous solution: an NMR relaxometric study. *Chemistry - A European Journal*, **2003**, 9, 2102-9 4.8 77
- 233 A Tris-hydroxymethyl-Substituted Derivative of Gd-TREN-Me-3,2-HOPO: An MRI Relaxation Agent with Improved Efficiency. *Journal of the American Chemical Society*, **2000**, 122, 11228-11229 16.4 75
- 232 Optimization of the relaxivity of MRI contrast agents: effect of poly(ethylene glycol) chains on the water-exchange rates of Gd(III) complexes. *Journal of the American Chemical Society*, **2001**, 123, 10758-9 16.4 75
- 231 A new ytterbium chelate as contrast agent in chemical shift imaging and temperature sensitive probe for MR spectroscopy. *Magnetic Resonance in Medicine*, **1996**, 35, 648-51 4.4 74
- 230 A Novel Compound in the Lanthanide(III) DOTA Series. X-ray Crystal and Molecular Structure of the Complex Na[La(DOTA)La(HDOTA)]·10H₂O. *Inorganic Chemistry*, **1997**, 36, 4287-4289 5.1 73
- 229 [GdPCP2A(H₂O)₂]⁻: a paramagnetic contrast agent designed for improved applications in magnetic resonance imaging. *Journal of Medicinal Chemistry*, **2000**, 43, 4017-24 8.3 73
- 228 A highly stable gadolinium complex with a fast, associative mechanism of water exchange. *Journal of the American Chemical Society*, **2003**, 125, 14274-5 16.4 72
- 227 Isostructural series of nine-coordinate chiral lanthanide complexes based on triazacyclononane. *Inorganic Chemistry*, **2012**, 51, 8042-56 5.1 71
- 226 Properties, solution state behavior, and crystal structures of chelates of DOTMA. *Inorganic Chemistry*, **2011**, 50, 7955-65 5.1 71
- 225 Towards MRI contrast agents of improved efficacy. NMR relaxometric investigations of the binding interaction to HSA of a novel heptadentate macrocyclic triphosphonate Gd(III)-complex. *Journal of Biological Inorganic Chemistry*, **1997**, 2, 470-479 3.7 71
- 224 Identification of emissive lanthanide complexes suitable for cellular imaging that resist quenching by endogenous anti-oxidants. *Organic and Biomolecular Chemistry*, **2007**, 5, 2055-62 3.9 69
- 223 Towards the rational design of MRI contrast agents: a practical approach to the synthesis of gadolinium complexes that exhibit optimal water exchange. *Dalton Transactions*, **2005**, 3829-37 4.3 68

222	Controlling the variation of axial water exchange rates in macrocyclic lanthanide(III) complexes. <i>Chemical Communications</i> , 2002 , 1120-1	5.8	66
221	Extent of hydration of octadentate lanthanide complexes incorporating phosphinate donors: solution relaxometry and luminescence studies. <i>Journal of the Chemical Society Dalton Transactions</i> , 1996 , 17		66
220	A chemical strategy for the relaxivity enhancement of Gd(III) chelates anchored on mesoporous silica nanoparticles. <i>Chemistry - A European Journal</i> , 2010 , 16, 10727-34	4.8	65
219	Non-covalent conjugates between cationic polyamino acids and Gd(III) chelates: a route for seeking accumulation of MRI-contrast agents at tumor targeting sites. <i>Chemistry - A European Journal</i> , 2000 , 6, 2609-17	4.8	65
218	Gd(DOTP)5-outer-sphere relaxation enhancement promoted by nitrogen bases. <i>Magnetic Resonance in Medicine</i> , 1993 , 30, 583-91	4.4	65
217	Novel paramagnetic macromolecular complexes derived from the linkage of a macrocyclic Gd(III) complex to polyamino acids through a squaric acid moiety. <i>Bioconjugate Chemistry</i> , 1999 , 10, 192-9	6.3	64
216	High-Relaxivity contrast agents for magnetic resonance imaging based on multisite interactions between a beta-cyclodextrin oligomer and suitably functionalized Gd(III) chelates. <i>Chemistry - A European Journal</i> , 2001 , 7, 5261-9	4.8	63
215	Dependence of the relaxivity and luminescence of gadolinium and europium amino-acid complexes on hydrogencarbonate and pH. <i>Chemical Communications</i> , 1999 , 1047-1048	5.8	63
214	Relaxometric, Structural, and Dynamic NMR Studies of DOTA-like Ln(III) Complexes (Ln = La, Gd, Ho, Yb) Containing a p-Nitrophenyl Substituent. <i>Inorganic Chemistry</i> , 1996 , 35, 2726-2736	5.1	63
213	A Multinuclear NMR Study on the Structure and Dynamics of Lanthanide(III) Complexes of the Poly(amino carboxylate) EGTA ⁴⁻ in Aqueous Solution. <i>Inorganic Chemistry</i> , 1997 , 36, 5104-5112	5.1	60
212	Gadolinium(III) 1,2-hydroxypyridonate-based complexes: toward MRI contrast agents of high relaxivity. <i>Inorganic Chemistry</i> , 2004 , 43, 5492-4	5.1	59
211	Polycatechol Nanoparticle MRI Contrast Agents. <i>Small</i> , 2016 , 12, 668-77	11	59
210	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, 2509-21	5.1	58
209	¹ H and ¹⁷ O NMR relaxometric and computational study on macrocyclic Mn(II) complexes. <i>Inorganic Chemistry</i> , 2013 , 52, 3268-79	5.1	57
208	Relaxivity modulation in Gd-functionalised mesoporous silicas. <i>Chemical Communications</i> , 2009 , 1246-8	5.8	57
207	Dendrimeric Gd(III) complex of a monophosphinated DOTA analogue: optimizing relaxivity by reducing internal motion. <i>Chemical Communications</i> , 2005 , 2390-2	5.8	56
206	Determination of metal-proton distances and electronic relaxation times in lanthanide complexes by nuclear magnetic resonance spectroscopy. <i>Journal of the Chemical Society Dalton Transactions</i> , 1992 , 225-228		52
205	1,2-hydroxypyridonates as contrast agents for magnetic resonance imaging: TREN-1,2-HOPO. <i>Inorganic Chemistry</i> , 2007 , 46, 9182-91	5.1	50

- 204 On the role of the counter-ion in defining water structure and dynamics: order, structure and dynamics in hydrophilic and hydrophobic gadolinium salt complexes. *Dalton Transactions*, **2006**, 5605-164.3 50
- 203 A stable, high relaxivity, diaqua gadolinium complex that suppresses anion and protein binding. *Chemical Communications*, **2001**, 2742-2743 5.8 50
- 202 Inclusion complexes between β -cyclodextrin and β -benzyloxy- β -propionic derivatives of paramagnetic DOTA- and DPTA-Gd(III) complexes. *Magnetic Resonance in Chemistry*, **1991**, 29, 923-927 2.1 50
- 201 AAZTA-based bifunctional chelating agents for the synthesis of multimeric/dendrimeric MRI contrast agents. *Organic and Biomolecular Chemistry*, **2010**, 8, 4569-74 3.9 49
- 200 An esterase-activated magnetic resonance contrast agent. *Chemical Communications*, **2007**, 4044-6 5.8 49
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- 198 Efficient relaxivity enhancement in dendritic gadolinium complexes: effective motional coupling in medium molecular weight conjugates. *Chemical Communications*, **2005**, 474-6 5.8 48
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- 196 A multinuclear NMR relaxometry study of ternary adducts formed between heptadentate Gd(III) chelates and L-lactate. *Chemistry - A European Journal*, **2005**, 11, 5531-7 4.8 47
- 195 Modulation of the water exchange rates in $[\text{GdDO3A}]$ complex by formation of ternary complexes with carboxylate ligands. *Chemical Communications*, **2001**, 115-116 5.8 46
- 194 Synthesis and NMRD studies of gadolinium(3+) complexes of macrocyclic polyamino polycarboxylic ligands bearing β -benzyloxy- α -propionic residues. *Inorganic Chemistry*, **1992**, 31, 1100-1103 5.1 46
- 193 Tuning the coordination number of hydroxypyridonate-based gadolinium complexes: implications for MRI contrast agents. *Journal of the American Chemical Society*, **2006**, 128, 5344-5 16.4 45
- 192 ^{195}Pt NMR spectroscopy: A chemometric approach. *Coordination Chemistry Reviews*, **2006**, 250, 2158-2174.2 45
- 191 Mn(II) compounds as an alternative to Gd-based MRI probes. *Future Medicinal Chemistry*, **2019**, 11, 1461-1483 4.8 44
- 190 Mn(II) complexes of novel hexadentate AAZTA-like chelators: a solution thermodynamics and relaxometric study. *Dalton Transactions*, **2011**, 40, 2025-32 4.3 44
- 189 ^{17}O and ^1H relaxometric and DFT study of hyperfine coupling constants in $[\text{Mn}(\text{H}_2\text{O})_6]^{2+}$. *RSC Advances*, **2014**, 4, 7094 3.7 43
- 188 Fast and easy access to efficient bifunctional chelators for MRI applications. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 3442-4 2.9 43
- 187 Maximizing the relaxivity of HSA-bound gadolinium complexes by simultaneous optimization of rotation and water exchange. *Chemical Communications*, **2007**, 4726-8 5.8 43

186	Relaxometric and solution NMR structural studies on ditopic lanthanide(III) complexes of a phosphinate analogue of DOTA with a fast rate of water exchange. <i>Dalton Transactions</i> , 2006 , 2323-33	4.3	43
185	¹ H and ¹⁷ O-NMR relaxometric investigations of paramagnetic contrast agents for MRI. Clues for higher relaxivities. <i>Coordination Chemistry Reviews</i> , 1999 , 185-186, 321-333	23.2	43
184	Picolinate-containing macrocyclic Mn ²⁺ complexes as potential MRI contrast agents. <i>Inorganic Chemistry</i> , 2014 , 53, 5136-49	5.1	42
183	Selective anchoring of Gd(III) chelates on the external surface of organo-modified mesoporous silica nanoparticles: a new chemical strategy to enhance relaxivity. <i>Chemistry - A European Journal</i> , 2013 , 19, 1421-8	4.8	42
182	Relaxometric and luminescence behaviour of triaquahexaazamacrocyclic complexes, the gadolinium complex displaying a high relaxivity with a pronounced pH dependence. <i>New Journal of Chemistry</i> , 1998 , 22, 627-631	3.6	42
181	A new bifunctional Gd(III) complex of enhanced efficacy for MR-molecular imaging applications. <i>Dalton Transactions</i> , 2009 , 9712-4	4.3	41
180	Molecular dynamics simulation of [Gd(egta)(H ₂ O)] ⁻ in aqueous solution: internal motions of the poly(amino carboxylate) and water ligands, and rotational correlation times. <i>Chemistry - A European Journal</i> , 2002 , 8, 1031-9	4.8	41
179	Fe(III)-templated Gd(III) self-assemblies-a new route toward macromolecular MRI contrast agents. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9272-3	16.4	40
178	Contrast Agents for Magnetic Resonance Imaging: A Novel Route to Enhanced Relaxivities Based on the Interaction of a Gd(III) Chelate with Poly-β-cyclodextrins. <i>Chemistry - A European Journal</i> , 1999 , 5, 1253-1260	4.8	40
177	Nuclear magnetic resonance studies of neutral lanthanide(III) complexes with tetraaza-macrocyclic ligands containing three phosphinate and one carboxamide co-ordinating arms. <i>Journal of the Chemical Society Dalton Transactions</i> , 1995 , 2259		40
176	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, 11173-84	5.1	39
175	High Relaxivity Gadolinium-Polydopamine Nanoparticles. <i>Small</i> , 2017 , 13, 1701830	11	38
174	Strategies to enhance signal intensity with paramagnetic fluorine-labelled lanthanide complexes as probes for ¹⁹ F magnetic resonance. <i>Dalton Transactions</i> , 2011 , 40, 904-13	4.3	38
173	Optimized relaxivity and stability of [Gd(H ₂ ,2)-1,2-HOPO)(H ₂ O)] ⁻ for use as an MRI contrast agent. <i>Inorganic Chemistry</i> , 2007 , 46, 4796-8	5.1	38
172	Hetero-tripodal hydroxypyridonate gadolinium complexes: syntheses, relaxometric properties, water exchange dynamics, and human serum albumin binding. <i>Inorganic Chemistry</i> , 2004 , 43, 8577-86	5.1	38
171	Structure and relaxivity of macrocyclic gadolinium complexes incorporating pyridyl and 4-morpholinopyridyl substituents. <i>New Journal of Chemistry</i> , 1999 , 23, 669	3.6	38
170	Synthesis, X-ray Structure, and Solution NMR Studies of Ln(III) Complexes with a Macrocyclic Asymmetric Compartmental Schiff Base. Preference of the Ln(III) Ions for a Crown-Like Coordination Site. <i>Inorganic Chemistry</i> , 1999 , 38, 2906-2916	5.1	38
169	Novel stable dendrimersome formulation for safe bioimaging applications. <i>Nanoscale</i> , 2015 , 7, 12943-54:7		37

168	Characterisation and evaluation of paramagnetic fluorine labelled glycol chitosan conjugates for (19)F and (1)H magnetic resonance imaging. <i>Journal of Biological Inorganic Chemistry</i> , 2014 , 19, 215-27	3.7	37
167	A Calix[4]arene Gd(III) Complex Endowed with High Stability, Relaxivity, and Binding Affinity to Serum Albumin This work was supported by CNR (Programma M.U.R.S.T. - Chimica Legge 95/95) "Agenti di contrasto, di shift e sonde luminescenti". We thank C.I.M. (Centro Interdipartimentale Misure) dell'Università di Parma for the NMR and mass spectroscopy facilities. <i>Angewandte Chemie</i>	16.4	37
166	6-carboxamido-5,4-hydroxypyrimidinones: a new class of heterocyclic ligands and their evaluation as gadolinium chelating agents. <i>Inorganic Chemistry</i> , 2001 , 40, 6746-56	5.1	37
165	MRI Contrast agents: macrocyclic lanthanide(III) complexes with improved relaxation efficiency. <i>Journal of the Chemical Society Chemical Communications</i> , 1995 , 1885		37
164	Solution structure of Ln(III) complexes with macrocyclic ligands through theoretical evaluation of 1H NMR contact shifts. <i>Inorganic Chemistry</i> , 2012 , 51, 13419-29	5.1	36
163	1,2-hydroxypyridonate/terephthalamide complexes of gadolinium(III): synthesis, stability, relaxivity, and water exchange properties. <i>Inorganic Chemistry</i> , 2009 , 48, 277-86	5.1	36
162	Steric control of lanthanide hydration state: fast water exchange at gadolinium in a mono-amide 'DOTA' complex. <i>Dalton Transactions</i> , 2004 , 1441-5	4.3	36
161	First in vivo MRI study on theranostic dendrimersomes. <i>Journal of Controlled Release</i> , 2017 , 248, 45-52	11.7	34
160	Characterisation of magnetic resonance imaging (MRI) contrast agents using NMR relaxometry. <i>Molecular Physics</i> , 2019 , 117, 898-909	1.7	34
159	Mono-, bi-, and trinuclear bis-hydrated Mn(2+) complexes as potential MRI contrast agents. <i>Inorganic Chemistry</i> , 2015 , 54, 9576-87	5.1	33
158	A holmium complex of a macrocyclic ligand (DOTA) and its isostructural europium analogue. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1999 , 55, 353-356		33
157	Thermodynamic stability, kinetic inertness and relaxometric properties of monoamide derivatives of lanthanide(III) DOTA complexes. <i>Dalton Transactions</i> , 2015 , 44, 5467-78	4.3	32
156	Application of the Ugi four-component reaction to the synthesis of ditopic bifunctional chelating agents. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 4406-14	3.9	32
155	NMR relaxometric study of new Gd(III) macrocyclic complexes and their interaction with human serum albumin. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 570-7	3.9	32
154	Solution structure and dynamics of DTPA-Ln(III) complexes (DTPA=diethylene triamine penta acetate; Ln=La, Pr, Eu). <i>Inorganica Chimica Acta</i> , 1990 , 177, 101-105	2.7	32
153	Developing the family of picolinate ligands for Mn complexation. <i>Dalton Transactions</i> , 2017 , 46, 1546-1558	4.8	31
152	Cleavable Cyclodextrin nanocapsules incorporating Gd(III)-chelates as bioresponsive MRI probes. <i>Chemical Communications</i> , 2011 , 47, 3144-6	5.8	31
151	Tris(pyron) chelates of Gd(III) as high solubility MRI-CA. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2222-3	16.4	31

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149	Gd-Based Mesoporous Silica Nanoparticles as MRI Probes. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 4936-4954	2.3	31
148	Dendrimersomes: a new vesicular nano-platform for MR-molecular imaging applications. <i>Chemical Communications</i> , 2014 , 50, 3453-6	5.8	30
147	Structural Features of Europium(II)-Containing Cryptates That Influence Relaxivity. <i>Chemistry - A European Journal</i> , 2017 , 23, 15404-15414	4.8	30
146	Synthesis, NMR, relaxometry and circularly polarised luminescence studies of macrocyclic monoamidetrис(phosphinate) complexes bearing a remote chiral centre. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998 , 881-892		30
145	The effect of ligand scaffold size on the stability of tripodal hydroxypyridonate gadolinium complexes. <i>Inorganic Chemistry</i> , 2003 , 42, 2577-83	5.1	29
144	Large photoacoustic effect enhancement for ICG confined inside MCM-41 mesoporous silica nanoparticles. <i>Nanoscale</i> , 2017 , 9, 99-103	7.7	28
143	The nature of the counter-anion can determine the rate of water exchange in a metal aqua complex. <i>Chemical Communications</i> , 2003 , 1386-7	5.8	28
142	Paramagnetic GdIII?FeIII heterobimetallic complexes of DTPA-bis-salicylamide. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1993 , 49, 1315-1322		28
141	Coupling fast water exchange to slow molecular tumbling in Gd ³⁺ chelates: why faster is not always better. <i>Inorganic Chemistry</i> , 2013 , 52, 8436-50	5.1	27
140	Lower ligand denticity leading to improved thermodynamic and kinetic stability of the Gd ³⁺ complex: the strange case of OBETA. <i>Chemistry - A European Journal</i> , 2012 , 18, 7680-5	4.8	27
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