

# Mauro Botta

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/9188437/mauro-botta-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

275  
papers

12,174  
citations

62  
h-index

97  
g-index

288  
ext. papers

12,873  
ext. citations

5.9  
avg, IF

6.08  
L-index

#	Paper	IF	Citations
275	High Relaxivity with No Coordinated Waters: A Seemingly Paradoxical Behavior of [Gd(DOTP)] Embedded in Nanogels.. <i>Inorganic Chemistry</i> , <b>2022</b> , 61, 5380-5387	5.1	0
274	Rigid versions of PDTA incorporating a 1,3-diaminocyclobutyl spacer for Mn complexation: stability, water exchange dynamics and relaxivity. <i>Dalton Transactions</i> , <b>2021</b> , 50, 16290-16303	4.3	0
273	Understanding the Effect of the Electron Spin Relaxation on the Relaxivities of Mn(II) Complexes with Triazacyclononane Derivatives. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 15055-15068	5.1	1
272	A Single-Pot Template Reaction Towards a Manganese-Based T1 Contrast Agent. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 10831-10839	3.6	0
271	A Single-Pot Template Reaction Towards a Manganese-Based T Contrast Agent. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 10736-10744	16.4	15
270	Rigid and Compact Binuclear Bis-hydrated Gd-complexes as High Relaxivity MRI Agents. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 11811-11817	4.8	4
269	Rational Design of High-Relaxivity Eu -Based Contrast Agents for Magnetic Resonance Imaging of Low-Oxygen Environments. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 3114-3118	4.8	3
268	Magnetic resonance thermometry using a Gd-based contrast agent. <i>Chemical Communications</i> , <b>2021</b> , 57, 1770-1773	5.8	1
267	Defining the conditions for the development of the emerging class of Fe-based MRI contrast agents. <i>Chemical Science</i> , <b>2021</b> , 12, 11138-11145	9.4	8
266	Revisiting paramagnetic relaxation enhancements in slowly rotating systems: how long is the long range?. <i>Magnetic Resonance</i> , <b>2021</b> , 2, 25-31	2.9	2
265	Mn(II)-Conjugated silica nanoparticles as potential MRI probes. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 8994-9004	7.3	2
264	Surprising Complexity of the [Gd(AAZTA)(HO)] Chelate Revealed by NMR in the Frequency and Time Domains. <i>Inorganic Chemistry</i> , <b>2021</b> ,	5.1	1
263	Macrocyclic Pycen-Based Gd Complex with High Relaxivity and pH Response. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 7306-7317	5.1	3
262	Analysis of the Relaxometric Properties of Extremely Rapidly Exchanging Gd Chelates: Lessons from a Comparison of Four Isomeric Chelates. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 9037-9046	5.1	4
261	Mn(II)-Based Lipidic Nanovesicles as High-Efficiency MRI Probes.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 2401-2409	2.4	2
260	Synthetic saponite clays as promising solids for lanthanide ion recovery. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 10033-10041	3.6	7
259	pH-Dependent Hydration Change in a Gd-Based MRI Contrast Agent with a Phosphonated Ligand. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 5407-5418	4.8	3

258	Combination of solid-state NMR and <sup>1</sup> H NMR relaxometry for the study of intercalated saponite clays with the macrocyclic derivatives of Gd(III) and Y(III). <i>Dalton Transactions</i> , <b>2020</b> , 49, 6566-6571	4.3	5
257	<sup>1</sup> H NMR Relaxometric Study of Chitosan-Based Nanogels Containing Mono- and Bis-Hydrated Gd(III) Chelates: Clues for MRI Probes of Improved Sensitivity.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 9065-9072	4.1	7
256	Combined NMR, DFT and X-ray studies highlight structural and hydration changes of [Ln(AAZTA)] <sup>3+</sup> complexes across the series. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 795-803	6.8	10
255	Rare earth elements (REE) in biology and medicine. <i>Rendiconti Lincei</i> , <b>2020</b> , 31, 821-833	1.7	10
254	Mn Complexes Containing Sulfonamide Groups with pH-Responsive Relaxivity. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 14306-14317	5.1	5
253	Mn(II) compounds as an alternative to Gd-based MRI probes. <i>Future Medicinal Chemistry</i> , <b>2019</b> , 11, 1461-1483	4.4	44
252	Photoacoustic ratiometric assessment of mitoxantrone release from theranostic ICG-conjugated mesoporous silica nanoparticles. <i>Nanoscale</i> , <b>2019</b> , 11, 18031-18036	7.7	7
251	A pentadentate member of the picolinate family for Mn(II) complexation and an amphiphilic derivative. <i>Dalton Transactions</i> , <b>2019</b> , 48, 696-710	4.3	6
250	Gadolinium(III)-Based Dual H/ F Magnetic Resonance Imaging Probes. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 4782-4792	4.8	11
249	Periodic trends and hidden dynamics of magnetic properties in three series of triazacyclononane lanthanide complexes. <i>Dalton Transactions</i> , <b>2019</b> , 48, 8400-8409	4.3	8
248	Lanthanide Complexes with <sup>1</sup> H paraCEST and <sup>19</sup> F Response for Magnetic Resonance Imaging Applications. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 7571-7583	5.1	14
247	Electronic Effects of the Substituents on Relaxometric and CEST Behaviour of Ln(III)-DOTA-Tetraanilides. <i>Inorganics</i> , <b>2019</b> , 7, 43	2.9	1
246	Differences in the Relaxometric Properties of Regioisomeric Benzyl-DOTA Bifunctional Chelators: Implications for Molecular Imaging. <i>Bioconjugate Chemistry</i> , <b>2019</b> , 30, 1530-1538	6.3	3
245	Lanthanide Complexes of DO3A-(Dibenzylamino)methylphosphinate: Effect of Protonation of the Dibenzylamino Group on the Water-Exchange Rate and the Binding of Human Serum Albumin. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 5196-5210	5.1	7
244	Controlling water exchange rates in potential Mn-based MRI agents derived from NO2A. <i>Dalton Transactions</i> , <b>2019</b> , 48, 3962-3972	4.3	10
243	Characterisation of magnetic resonance imaging (MRI) contrast agents using NMR relaxometry. <i>Molecular Physics</i> , <b>2019</b> , 117, 898-909	1.7	34
242	Modifying LnHPDO3A Chelates for Improved T and CEST MRI Applications. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 4184-4193	4.8	6
241	Novel paramagnetic clays obtained through intercalation of Gd-complexes. <i>Dalton Transactions</i> , <b>2018</b> , 47, 7896-7904	4.3	6

240	Relaxivity Enhancement of Ditopic Bishydrated Gadolinium(III) Complexes Conjugated to Mesoporous Silica Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , <b>2018</b> , 2018, 2363-2368	2.3	5
239	Macrocyclic trinuclear gadolinium(III) complexes: the influence of the linker flexibility on the relaxometric properties. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 7984-7992	3.6	2
238	[Yb(AAZTA)(HO)]: an unconventional ParaCEST MRI probe. <i>Chemical Communications</i> , <b>2018</b> , 54, 2004-2007	5.8	9
237	Optimizing the Relaxivity of MRI Probes at High Magnetic Field Strengths With Binuclear Gd Complexes. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 158	5	11
236	ParaCEST Agents Encapsulated in Reverse Nano-Assembled Capsules (RACs): How Slow Molecular Tumbling Can Quench CEST Contrast. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 96	5	3
235	Gd-Based Mesoporous Silica Nanoparticles as MRI Probes. <i>European Journal of Inorganic Chemistry</i> , <b>2018</b> , 2018, 4936-4954	2.3	31
234	Complete on/off responsive ParaCEST MRI contrast agents for copper and zinc. <i>Dalton Transactions</i> , <b>2018</b> , 47, 11346-11357	4.3	14
233	Supramolecular assemblies based on amphiphilic Mn-complexes as high relaxivity MRI probes. <i>Dalton Transactions</i> , <b>2018</b> , 47, 10660-10670	4.3	9
232	First in vivo MRI study on theranostic dendrimersomes. <i>Journal of Controlled Release</i> , <b>2017</b> , 248, 45-52	11.7	34
231	Developing the family of picolinate ligands for Mn complexation. <i>Dalton Transactions</i> , <b>2017</b> , 46, 1546-1558	4.8	31
230	Large photoacoustic effect enhancement for ICG confined inside MCM-41 mesoporous silica nanoparticles. <i>Nanoscale</i> , <b>2017</b> , 9, 99-103	7.7	28
229	High Relaxivity Gadolinium-Polydopamine Nanoparticles. <i>Small</i> , <b>2017</b> , 13, 1701830	11	38
228	Chemical Shift and Relaxation Reagents in NMR <b>2017</b> , 195-202		
227	Structural Features of Europium(II)-Containing Cryptates That Influence Relaxivity. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 15404-15414	4.8	30
226	Developing High Field MRI Contrast Agents by Tuning the Rotational Dynamics: Bisoqua GdAAZTA-based Dendrimers. <i>Israel Journal of Chemistry</i> , <b>2017</b> , 57, 887-895	3.4	12
225	On Water and its Effect on the Performance of T1-Shortening Contrast Agents. <i>Israel Journal of Chemistry</i> , <b>2017</b> , 57, 880-886	3.4	5
224	Definition of the Labile Capping Bond Effect in Lanthanide Complexes. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 1110-1117	4.8	17
223	Chapter 2:Gadolinium-based Contrast Agents. <i>New Developments in NMR</i> , <b>2017</b> , 121-242	0.9	11

222	Optimising the relaxivities of Mn complexes by targeting human serum albumin (HSA). <i>Dalton Transactions</i> , <b>2017</b> , 46, 8494-8504	4.3	20
221	Structure and Function of Iron-Loaded Synthetic Melanin. <i>ACS Nano</i> , <b>2016</b> , 10, 10186-10194	16.7	89
220	Evaluation of Water Exchange Kinetics on [Ln(AAZTAPh-NO <sub>2</sub> )(H <sub>2</sub> O) <sub>q</sub> ](x) Complexes Using Proton Nuclear Magnetic Resonance. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 6300-7	5.1	7
219	Polymeric Gd-DOTA amphiphiles form spherical and fibril-shaped nanoparticle MRI contrast agents. <i>Chemical Science</i> , <b>2016</b> , 7, 4230-4236	9.4	24
218	Polycatechol Nanoparticle MRI Contrast Agents. <i>Small</i> , <b>2016</b> , 12, 668-77	11	59
217	Amphiphilic Ditopic Bis-Aqua Gd-AAZTA-like Complexes Enhance Relaxivity of Lipidic MRI Nanoprobes. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 2139-43	4.5	12
216	Synthesis of an Amphiphilic Bis-Aqua Gd(OBETA) Complex for the Preparation of High-Relaxivity Supramolecular Magnetic Resonance Imaging Probes. <i>ChemPlusChem</i> , <b>2016</b> , 81, 235-241	2.8	4
215	A Bisamide Derivative of [Mn(1,4-DO <sub>2</sub> A)] [Solution Thermodynamic, Kinetic, and NMR Relaxometric Studies. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 1165-1174	2.3	19
214	Novel stable dendrimersome formulation for safe bioimaging applications. <i>Nanoscale</i> , <b>2015</b> , 7, 12943-547.7	37	
213	Optimizing the high-field relaxivity by self-assembling of macrocyclic Gd(III) complexes. <i>Dalton Transactions</i> , <b>2015</b> , 44, 4910-7	4.3	7
212	Mono-, bi-, and trinuclear bis-hydrated Mn(2+) complexes as potential MRI contrast agents. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 9576-87	5.1	33
211	Selective functionalization of mesoporous silica nanoparticles with ibuprofen and Gd(III) chelates: a new probe for potential theranostic applications. <i>Dalton Transactions</i> , <b>2015</b> , 44, 17927-31	4.3	17
210	A structural and (1)H NMR relaxometric study on novel layered carboxyalkylaminophosphonate nanocrystals with Gd(III) ions located in the framework. <i>Dalton Transactions</i> , <b>2015</b> , 44, 19072-5	4.3	1
209	GdDOTAGA(C18)2: an efficient amphiphilic Gd(iii) chelate for the preparation of self-assembled high relaxivity MRI nanoprobes. <i>Chemical Communications</i> , <b>2015</b> , 51, 17455-8	5.8	23
208	NaGdF Nanoparticles Coated with Functionalised Ethylenediaminetetraacetic Acid as Versatile Probes for Dual Optical and Magnetic Resonance Imaging. <i>ChemPlusChem</i> , <b>2015</b> , 80, 503-510	2.8	7
207	Solution thermodynamics, computational and relaxometric studies of ditopic DO <sub>3</sub> A-based Mn(II) complexes. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 539-547	3.6	11
206	Importance of outer-sphere and aggregation phenomena in the relaxation properties of phosphonated gadolinium complexes with potential applications as MRI contrast agents. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 6535-46	4.8	20
205	Aggregation in amphiphilic macrocycle-substituted Gd(3+) DOTA-type chelates is affected by the regiochemistry of substitution. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 2085-7	5.1	6

204	Thermodynamic stability, kinetic inertness and relaxometric properties of monoamide derivatives of lanthanide(III) DOTA complexes. <i>Dalton Transactions</i> , <b>2015</b> , 44, 5467-78	4.3	32
203	A new ditopic Gd(III) complex functionalized with an adamantyl moiety as a versatile building block for the preparation of supramolecular assemblies. <i>Journal of Biological Inorganic Chemistry</i> , <b>2014</b> , 19, 133-43	3.7	14
202	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> , <b>2014</b> , 19, 215-27	3.7	37
201	Lower denticity leading to higher stability: structural and solution studies of Ln(III)-OBETA complexes. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 12499-511	5.1	24
200	MRI nanoprobe based on chemical exchange saturation transfer: Ln(III) chelates anchored on the surface of mesoporous silica nanoparticles. <i>Nanoscale</i> , <b>2014</b> , 6, 9604-7	7.7	18
199	Dendrimersomes: a new vesicular nano-platform for MR-molecular imaging applications. <i>Chemical Communications</i> , <b>2014</b> , 50, 3453-6	5.8	30
198	Gadolinium-loaded polychelating amphiphilic polymer as an enhanced MRI contrast agent for human multiple myeloma and non Hodgkin's lymphoma (human Burkitt's lymphoma). <i>RSC Advances</i> , <b>2014</b> , 4, 18007	3.7	6
197	<sup>17</sup> O and <sup>1</sup> H relaxometric and DFT study of hyperfine coupling constants in [Mn(H <sub>2</sub> O) <sub>6</sub> ] <sup>2+</sup> . <i>RSC Advances</i> , <b>2014</b> , 4, 7094	3.7	43
196	Picolinate-containing macrocyclic Mn <sup>2+</sup> complexes as potential MRI contrast agents. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 5136-49	5.1	42
195	Dendrimeric Cyclodextrin/Gd(III) chelate supramolecular host-guest adducts as high-relaxivity MRI probes. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 10944-52	4.8	26
194	High relaxivity Mn(2+)-based MRI contrast agents. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 17300-5	4.8	24
193	Aryl-phosphonate lanthanide complexes and their fluorinated derivatives: investigation of their unusual relaxometric behavior and potential application as dual frequency <sup>1</sup> H/ <sup>19</sup> F MRI probes. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 11644-60	4.8	16
192	Coupling fast water exchange to slow molecular tumbling in Gd <sup>3+</sup> chelates: why faster is not always better. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 8436-50	5.1	27
191	Comparative in vitro studies of MR imaging probes for metabotropic glutamate subtype-5 receptor targeting. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 6131-41	3.9	7
190	Self-aggregated dinuclear lanthanide(III) complexes as potential bimodal probes for magnetic resonance and optical imaging. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 11696-706	4.8	17
189	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> , <b>2013</b> , 1, 2818-2828	7.3	91
188	Structure and dynamics of the hydration shells of citrate-coated GdF nanoparticles. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 2442-2446	7.3	23
187	Multimodal contrast agents for in vivo neuroanatomical analysis of monosynaptic connections. <i>Biomaterials</i> , <b>2013</b> , 34, 7135-42	15.6	5

186	Picture of a chelate in exchange: the crystal structure of NaHoDOTMA, a 'semi'-hydrated chelate. <i>Chemical Communications</i> , <b>2013</b> , 49, 2320-2	5.8	7
185	pH-responsive lanthanide complexes based on reversible ligation of a diphenylphosphinamide. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 14264-9	5.1	4
184	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> , <b>2013</b> , 52, 11173-84	5.1	39
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> , <b>2013</b> , 19, 1421-8	4.8	42
182	<sup>1</sup> H and <sup>17</sup> O NMR relaxometric and computational study on macrocyclic Mn(II) complexes. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 3268-79	5.1	57
181	Responsive Probes <b>2013</b> , 343-385		9
180	Orthogonal synthesis of a heterodimeric ligand for the development of the Gd(III)-Ga(III) ditopic complex as a potential pH-sensitive MRI/PET probe. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 1683-90	3.9	26
179	Combined high resolution NMR and <sup>1</sup> H and <sup>17</sup> O relaxometric study sheds light on the solution structure and dynamics of the lanthanide(III) complexes of HPDO3A. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 7130-8 <sup>1</sup>	5.1	47
178	New calcium-selective smart contrast agents for magnetic resonance imaging. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 18011-26	4.8	15
177	In Vivo Magnetic Resonance Imaging Detection of Paramagnetic Liposomes Loaded with Amphiphilic Gadolinium(III) Complexes: Impact of Molecular Structure on Relaxivity and Excretion Efficiency. <i>ChemPlusChem</i> , <b>2013</b> , 78, 712-722	2.8	14
176	Paramagnetic solid lipid nanoparticles as a novel platform for the development of molecular MRI probes. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 11189-93	4.8	12
175	The use of a ditopic Gd(III) paramagnetic probe for investigating Bungarotoxin surface accessibility. <i>Journal of Inorganic Biochemistry</i> , <b>2012</b> , 112, 25-31	4.2	10
174	One-pot synthesis of a piperidine-based rigidified DTPA analogue and its bifunctional chelating agent. <i>Organic and Biomolecular Chemistry</i> , <b>2012</b> , 10, 2525-7	3.9	2
173	Equilibrium and NMR relaxometric studies on the s-triazine-based heptadentate ligand PTDITA showing high selectivity for Gd <sup>3+</sup> ions. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 2597-607	5.1	23
172	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> , <b>2012</b> , 51, 2509-21	5.1	58
171	Isostructural series of nine-coordinate chiral lanthanide complexes based on triazacyclononane. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 8042-56	5.1	71
170	Solution properties of the Ln(III) complexes of a novel octadentate chelator with rigidified iminodiacetate arms. <i>Dalton Transactions</i> , <b>2012</b> , 41, 12797-806	4.3	3
169	Multifunctional receptor-targeted nanocomplexes for magnetic resonance imaging and transfection of tumours. <i>Biomaterials</i> , <b>2012</b> , 33, 7241-50	15.6	22



168	Solution structure of Ln(III) complexes with macrocyclic ligands through theoretical evaluation of <sup>1</sup> H NMR contact shifts. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 13419-29	5.1	36
167	Influence of gem-Dimethyl Substitution on the Stability, Kinetics and Relaxometric Properties of PDTA Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>2012</b> , 2012, 2074-2086	2.3	8
166	Relaxivity Enhancement in Macromolecular and Nanosized Gd(III)-Based MRI Contrast Agents. <i>European Journal of Inorganic Chemistry</i> , <b>2012</b> , 2012, 1945-1960	2.3	155
165	Lower ligand denticity leading to improved thermodynamic and kinetic stability of the Gd <sup>3+</sup> complex: the strange case of OBETA. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 7680-5	4.8	27
164	Synthesis of lanthanide(III) complexes appended with a diphenylphosphinamide and their interaction with human serum albumin. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2011</b> , 71, 435-444		12
163	Relaxometric Study of a Series of Monoaqua Gd(III) Complexes of Rigidified EGTA-Like Chelators and Their Noncovalent Interaction with Human Serum Albumin. <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, 802-810	2.3	22
162	Cleavable Cyclodextrin nanocapsules incorporating Gd(III)-chelates as bioresponsive MRI probes. <i>Chemical Communications</i> , <b>2011</b> , 47, 3144-6	5.8	31
161	Mn(II) complexes of novel hexadentate AAZTA-like chelators: a solution thermodynamics and relaxometric study. <i>Dalton Transactions</i> , <b>2011</b> , 40, 2025-32	4.3	44
160	Strategies to enhance signal intensity with paramagnetic fluorine-labelled lanthanide complexes as probes for <sup>19</sup> F magnetic resonance. <i>Dalton Transactions</i> , <b>2011</b> , 40, 904-13	4.3	38
159	Properties, solution state behavior, and crystal structures of chelates of DOTMA. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 7955-65	5.1	71
158	Responsive Mn(II) complexes for potential applications in diagnostic Magnetic Resonance Imaging. <i>Bioorganic and Medicinal Chemistry</i> , <b>2011</b> , 19, 1115-22	3.4	19
157	Dramatic increase of selectivity for heavy lanthanide(III) cations by tuning the flexibility of polydentate chelators. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 616-25	5.1	23
156	AAZTA-based bifunctional chelating agents for the synthesis of multimeric/dendrimeric MRI contrast agents. <i>Organic and Biomolecular Chemistry</i> , <b>2010</b> , 8, 4569-74	3.9	49
155	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> , <b>2010</b> , 132, 7836-7	16.4	127
154	Design principles and theory of paramagnetic fluorine-labelled lanthanide complexes as probes for ( <sup>19</sup> F) magnetic resonance: a proof-of-concept study. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 134-48	4.8	88
153	A chemical strategy for the relaxivity enhancement of Gd(III) chelates anchored on mesoporous silica nanoparticles. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 10727-34	4.8	65
152	Synthesis and characterization of a novel macrocyclic ligand containing nine donor atoms. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , <b>2010</b> , 115, 94-98		2
151	Synthesis and Relaxometric Properties of Gadolinium(III) Complexes of New Triazine-Based Polydentate Ligands. <i>Helvetica Chimica Acta</i> , <b>2009</b> , 92, 2414-2426	2	8



150	Effect of a mesitylene-based ligand cap on the relaxometric properties of Gd(III) hydroxypyridonate MRI contrast agents. <i>Contrast Media and Molecular Imaging</i> , <b>2009</b> , 4, 220-9	3.2	12
149	The cadmium binding domains in the metallothionein isoform Cd(7)-MT10 from <i>Mytilus galloprovincialis</i> revealed by NMR spectroscopy. <i>Journal of Biological Inorganic Chemistry</i> , <b>2009</b> , 14, 167-78	3.7	17
148	Fast and easy access to efficient bifunctional chelators for MRI applications. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2009</b> , 19, 3442-4	2.9	43
147	A solution thermodynamic study of the Cu(II) and Zn(II) complexes of EBTA: X-ray crystal structure of the dimeric complex [Cu <sub>2</sub> (EBTA)(H <sub>2</sub> O) <sub>3</sub> ] <sub>2</sub> . <i>Inorganica Chimica Acta</i> , <b>2009</b> , 362, 2259-2264	2.7	4
146	1,2-hydroxypyridonate/terephthalamide complexes of gadolinium(III): synthesis, stability, relaxivity, and water exchange properties. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 277-86	5.1	36
145	A new bifunctional Gd(III) complex of enhanced efficacy for MR-molecular imaging applications. <i>Dalton Transactions</i> , <b>2009</b> , 9712-4	4.3	41
144	Relaxivity modulation in Gd-functionalised mesoporous silicas. <i>Chemical Communications</i> , <b>2009</b> , 1246-8	5.8	57
143	Application of the Ugi four-component reaction to the synthesis of ditopic bifunctional chelating agents. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 4406-14	3.9	32
142	High relaxivity gadolinium hydroxypyridonate-viral capsid conjugates: nanosized MRI contrast agents. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 2546-52	16.4	156
141	Synthesis and solution thermodynamic study of rigidified and functionalised EGTA derivatives. <i>Organic and Biomolecular Chemistry</i> , <b>2008</b> , 6, 2361-8	3.9	19
140	Carbon coated microshells containing nanosized Gd(III) oxidic phases for multiple bio-medical applications. <i>Chemical Communications</i> , <b>2008</b> , 5936-8	5.8	5
139	<sup>1</sup> H and <sup>17</sup> O NMR relaxometric study in aqueous solution of Gd(III) complexes of EGTA-like derivatives bearing methylenephosphonic groups. <i>Magnetic Resonance in Chemistry</i> , <b>2008</b> , 46 Suppl 1, S86-93	2.1	12
138	An esterase-activated magnetic resonance contrast agent. <i>Chemical Communications</i> , <b>2007</b> , 4044-6	5.8	49
137	Magnetic resonance contrast agents from viral capsid shells: a comparison of exterior and interior cargo strategies. <i>Nano Letters</i> , <b>2007</b> , 7, 2207-10	11.5	127
136	1,2-hydroxypyridonates as contrast agents for magnetic resonance imaging: TREN-1,2-HOPO. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 9182-91	5.1	50
135	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> , <b>2007</b> , 129, 1870-1	16.4	85
134	Optimized relaxivity and stability of [Gd(H(2,2)-1,2-HOPO)(H <sub>2</sub> O)]- for use as an MRI contrast agent. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 4796-8	5.1	38
133	Luminescence properties and solution dynamics of lanthanide complexes composed by a macrocycle hosting site and naphthalene or quinoline appended chromophore. <i>Inorganica Chimica Acta</i> , <b>2007</b> , 360, 2549-2557	2.7	14

132	Identification of emissive lanthanide complexes suitable for cellular imaging that resist quenching by endogenous anti-oxidants. <i>Organic and Biomolecular Chemistry</i> , <b>2007</b> , 5, 2055-62	3.9	69
131	Novel functionalized pyridine-containing DTPA-like ligand. Synthesis, computational studies and characterization of the corresponding Gd(III) complex. <i>Organic and Biomolecular Chemistry</i> , <b>2007</b> , 5, 2441-9	3.9	15
130	Maximizing the relaxivity of HSA-bound gadolinium complexes by simultaneous optimization of rotation and water exchange. <i>Chemical Communications</i> , <b>2007</b> , 4726-8	5.8	43
129	Gd-enhanced MR images of substrates other than water. <i>Contrast Media and Molecular Imaging</i> , <b>2006</b> , 1, 101-5	3.2	12
128	On the role of the counter-ion in defining water structure and dynamics: order, structure and dynamics in hydrophilic and hydrophobic gadolinium salt complexes. <i>Dalton Transactions</i> , <b>2006</b> , 5605-16	4.3	50
127	Synthesis and characterisation of dimeric eight-coordinate lanthanide(III) complexes of a macrocyclic tribenzylphosphinate ligand. <i>Dalton Transactions</i> , <b>2006</b> , 5423-8	4.3	13
126	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> , <b>2006</b> , 2323-33	4.3	43
125	Glycoconjugates of gadolinium complexes for MRI applications. <i>Chemical Communications</i> , <b>2006</b> , 1064-6	5.8	77
124	Tris(pyrene) chelates of Gd(III) as high solubility MRI-CA. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 2222-3	16.4	31
123	Substituent effects on Gd(III)-based MRI contrast agents: optimizing the stability and selectivity of the complex and the number of coordinated water molecules. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 8355-64	5.1	77
122	Fe(III)-templated Gd(III) self-assemblies-a new route toward macromolecular MRI contrast agents. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 9272-3	16.4	40
121	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> , <b>2006</b> , 17, 975-87	6.3	104
120	Tuning the coordination number of hydroxypyridonate-based gadolinium complexes: implications for MRI contrast agents. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 5344-5	16.4	45
119	NMR studies of BPTI aggregation by using paramagnetic relaxation reagents. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2006</b> , 1764, 856-62	4	14
118	<sup>195</sup> Pt NMR spectroscopy: A chemometric approach. <i>Coordination Chemistry Reviews</i> , <b>2006</b> , 250, 2158-2174	4.2	45
117	Gd(III)-BASED CONTRAST AGENTS FOR MRI. <i>Advances in Inorganic Chemistry</i> , <b>2005</b> , 57, 173-237	2.1	284
116	Efficient relaxivity enhancement in dendritic gadolinium complexes: effective motional coupling in medium molecular weight conjugates. <i>Chemical Communications</i> , <b>2005</b> , 474-6	5.8	48
115	Dendrimeric Gd(III) complex of a monophosphinated DOTA analogue: optimizing relaxivity by reducing internal motion. <i>Chemical Communications</i> , <b>2005</b> , 2390-2	5.8	56

114	Towards the rational design of MRI contrast agents: a practical approach to the synthesis of gadolinium complexes that exhibit optimal water exchange. <i>Dalton Transactions</i> , <b>2005</b> , 3829-37	4.3	68
113	Dendrimeric gadolinium chelate with fast water exchange and high relaxivity at high magnetic field strength. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 504-5	16.4	79
112	Selectivity of Asymmetric Macrocyclic Compartmental Lanthanide(III) Complexes towards Alkali and Alkaline-Earth Metal Ions. <i>European Journal of Inorganic Chemistry</i> , <b>2005</b> , 2005, 1492-1499	2.3	15
111	Gadolinium(III) Complexes of dota-Derived N-Sulfonylacetamides (H <sub>4</sub> (dota-NHSO <sub>2</sub> R)=10-{2-[(R)sulfonylamino]-2-oxoethyl}-1,4,7,10-tetraazacyclododecane-1,4,7-triacetic Acid): A New Class of Relaxation Agents for Magnetic Resonance Imaging Applications. <i>Helvetica Chimica Acta</i> , <b>2005</b> , 88, 588-603	2	11
110	A multinuclear NMR relaxometry study of ternary adducts formed between heptadentate Gd(III) chelates and L-lactate. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 5531-7	4.8	47
109	Novel gadolinium(III) polyaminocarboxylate macrocyclic complexes as potential magnetic resonance imaging contrast agents. <i>Journal of Inorganic Biochemistry</i> , <b>2004</b> , 98, 677-82	4.2	12
108	Synthesis and characterization of a macrocyclic Schiff base GdIII complex as a relaxation agent for a faster acquisition of 2H NMR spectra of ethanol. <i>Inorganica Chimica Acta</i> , <b>2004</b> , 357, 1374-1380	2.7	3
107	Steric control of lanthanide hydration state: fast water exchange at gadolinium in a mono-amide 'DOTA' complex. <i>Dalton Transactions</i> , <b>2004</b> , 1441-5	4.3	36
106	NMR relaxometric study of new Gd(III) macrocyclic complexes and their interaction with human serum albumin. <i>Organic and Biomolecular Chemistry</i> , <b>2004</b> , 2, 570-7	3.9	32
105	Gadolinium(III) 1,2-hydroxypyridonate-based complexes: toward MRI contrast agents of high relaxivity. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 5492-4	5.1	59
104	Hetero-tripodal hydroxypyridonate gadolinium complexes: syntheses, relaxometric properties, water exchange dynamics, and human serum albumin binding. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 8577-86	5.1	38
103	The Water-Exchange Rate in Neutral Heptadentate DO3A-Like GdIII Complexes: Effect of the Basicity at the Macrocyclic Nitrogen Site. <i>European Journal of Inorganic Chemistry</i> , <b>2003</b> , 2003, 3530-3533	2.3	25
102	Ternary complexes between cationic GdIII chelates and anionic metabolites in aqueous solution: an NMR relaxometric study. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 2102-9	4.8	77
101	Relationship between ligand structure and electrochemical and relaxometric properties of acyclic poly(aminocarboxylate) complexes of Eu(II). <i>Dalton Transactions</i> , <b>2003</b> , 1628-1633	4.3	22
100	Enantioselective recognition between chiral alpha-hydroxy-carboxylates and macrocyclic heptadentate lanthanide(III) chelates. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 4891-7	5.1	23
99	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> , <b>2003</b> , 42, 148-57	5.1	124
98	The effect of ligand scaffold size on the stability of tripodal hydroxypyridonate gadolinium complexes. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 2577-83	5.1	29
97	A highly stable gadolinium complex with a fast, associative mechanism of water exchange. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 14274-5	16.4	72

96	The nature of the counter-anion can determine the rate of water exchange in a metal aqua complex. <i>Chemical Communications</i> , <b>2003</b> , 1386-7	5.8	28
95	Molecular dynamics simulation of [Gd(egta)(H <sub>2</sub> O)] <sup>-</sup> in aqueous solution: internal motions of the poly(amino carboxylate) and water ligands, and rotational correlation times. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 1031-9	4.8	41
94	Heterodinuclear Ln[bond]Na complexes with an asymmetrical macrocyclic compartmental Schiff base. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 3917-26	4.8	20
93	Separation of intra- and extracellular lactate NMR signals using a lanthanide shift reagent. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 10-3	4.4	13
92	Relaxometric evaluation of novel manganese(II) complexes for application as contrast agents in magnetic resonance imaging. <i>Journal of Biological Inorganic Chemistry</i> , <b>2002</b> , 7, 58-67	3.7	88
91	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> , <b>2002</b> , 124, 12697-705	16.4	227
90	Highly luminescent Eu(3+) and Tb(3+) macrocyclic complexes bearing an appended phenanthroline chromophore. <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 2777-84	5.1	97
89	Controlling the variation of axial water exchange rates in macrocyclic lanthanide(III) complexes. <i>Chemical Communications</i> , <b>2002</b> , 1120-1	5.8	66
88	A Calix[4]arene GdIII Complex Endowed with High Stability, Relaxivity, and Binding Affinity to Serum Albumin. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 4873-4875	3.6	5
87	High-Relaxivity contrast agents for magnetic resonance imaging based on multisite interactions between a beta-cyclodextrin oligomer and suitably functionalized GdIII chelates. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 5261-9	4.8	63
86	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
85	A stable, high relaxivity, diaqua gadolinium complex that suppresses anion and protein binding. <i>Chemical Communications</i> , <b>2001</b> , 2742-2743	5.8	50
84	Optimization of the relaxivity of MRI contrast agents: effect of poly(ethylene glycol) chains on the water-exchange rates of Gd(III) complexes. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 10758-9	16.4	75
83	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> , <b>2001</b> , 123, 7601-9	16.4	246
82	Modulation of the water exchange rates in [GdD <sub>2</sub> O <sub>3</sub> A] complex by formation of ternary complexes with carboxylate ligands. <i>Chemical Communications</i> , <b>2001</b> , 115-116	5.8	46
81	6-carboxamido-5,4-hydroxypyrimidinones: a new class of heterocyclic ligands and their evaluation as gadolinium chelating agents. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 6746-56	5.1	37
80	A p(O <sub>2</sub> )-Responsive MRI Contrast Agent Based on the Redox Switch of Manganese(II / III) - Porphyrin Complexes. <i>Angewandte Chemie - International Edition</i> , <b>2000</b> , 39, 747-750	16.4	133
79	Second Coordination Sphere Water Molecules and Relaxivity of Gadolinium(III) Complexes: Implications for MRI Contrast Agents. <i>European Journal of Inorganic Chemistry</i> , <b>2000</b> , 2000, 399-407	2.3	235

78	Experimental Evidence for a Second Coordination Sphere Water Molecule in the Hydration Structure of YbDTPA Insights for a Re-Assessment of the Relaxivity Data of GdDTPA. <i>European Journal of Inorganic Chemistry</i> , <b>2000</b> , 2000, 971-977	2.3	22
77	Non-covalent conjugates between cationic polyamino acids and GdIII chelates: a route for seeking accumulation of MRI-contrast agents at tumor targeting sites. <i>Chemistry - A European Journal</i> , <b>2000</b> , 6, 2609-17	4.8	65
76	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> , <b>2000</b> , 122, 9674-9684	16.4	257
75	Hetero-dinuclear sodiumlanthanide(III) complexes with an asymmetric compartmental macrocycle. <i>Chemical Communications</i> , <b>2000</b> , 145-146	5.8	13
74	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> , <b>2000</b> , 5, 488-97	3.7	126
73	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> , <b>2000</b> , 122, 9781-9792	16.4	170
72	Multinuclear and multifrequency NMR study of gadolinium(III) complexes with bis-amide derivatives of ethylenedioxydiethylenedinitrilotetraacetic acid. <i>Dalton Transactions RSC</i> , <b>2000</b> , 3435-3440		12
71	Syntheses and relaxation properties of mixed gadolinium hydroxypyridinonate MRI contrast agents. <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 5747-56	5.1	83
70	A Tris-hydroxymethyl-Substituted Derivative of Gd-TREN-Me-3,2-HOPO: An MRI Relaxation Agent with Improved Efficiency. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 11228-11229	16.4	75
69	[GdPCP2A(H <sub>2</sub> O) <sub>2</sub> ] <sup>(-)</sup> : a paramagnetic contrast agent designed for improved applications in magnetic resonance imaging. <i>Journal of Medicinal Chemistry</i> , <b>2000</b> , 43, 4017-24	8.3	73
68	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> , <b>1999</b> , 121, 5762-5771	16.4	240
67	A holmium complex of a macrocyclic ligand (DOTA) and its isostructural europium analogue. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1999</b> , 55, 353-356		33
66	<sup>1</sup> H and <sup>17</sup> O-NMR relaxometric investigations of paramagnetic contrast agents for MRI. Clues for higher relaxivities. <i>Coordination Chemistry Reviews</i> , <b>1999</b> , 185-186, 321-333	23.2	43
65	Contrast Agents for Magnetic Resonance Imaging: A Novel Route to Enhanced Relaxivities Based on the Interaction of a GdIII Chelate with Poly-β-cyclodextrins. <i>Chemistry - A European Journal</i> , <b>1999</b> , 5, 1253-1260	4.8	40
64	Spectral Discrimination of Chiral Macrocyclic Paramagnetic Metal Complexes by NMR Techniques <i>Chemistry - A European Journal</i> , <b>1999</b> , 5, 1261-1266	4.8	18
63	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> , <b>1999</b> , 10, 192-9	6.3	64
62	A macromolecular Gd(III) complex as pH-responsive relaxometric probe for MRI applications. <i>Chemical Communications</i> , <b>1999</b> , 1577-1578	5.8	80
61	Structure and relaxivity of macrocyclic gadolinium complexes incorporating pyridyl and 4-morpholinopyridyl substituents. <i>New Journal of Chemistry</i> , <b>1999</b> , 23, 669	3.6	38



60	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> , <b>1999</b> , 38, 2906-2916	5.1	38
59	Chemical Shift and Relaxation Reagents in NMR* <b>1999</b> , 253-261		
58	Dependence of the relaxivity and luminescence of gadolinium and europium amino-acid complexes on hydrogencarbonate and pH. <i>Chemical Communications</i> , <b>1999</b> , 1047-1048	5.8	63
57	Prototropic and Water-Exchange Processes in Aqueous Solutions of Gd(III) Chelates. <i>Accounts of Chemical Research</i> , <b>1999</b> , 32, 941-949	24.3	180
56	Direkter NMR-spektroskopischer Nachweis eines Lanthanoid-koordinierten Wassermoleküls, dessen Austauschgeschwindigkeit von der Konfiguration des Komplexes abhängt. <i>Angewandte Chemie</i> , <b>1998</b> , 110, 2819-2820	3.6	12
55	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> , <b>1998</b> , 37, 2673-2675	16.4	120
54	NMR relaxometric studies of Gd(III) complexes with heptadentate macrocyclic ligands. <i>Magnetic Resonance in Chemistry</i> , <b>1998</b> , 36, S200-S208	2.1	116
53	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> , <b>1998</b> , 22, 627-631	3.6	42
52	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> , <b>1998</b> , 881-892		30
51	Lanthanide(III) chelates for NMR biomedical applications. <i>Chemical Society Reviews</i> , <b>1998</b> , 27, 19-29	58.5	612
50	Nuclear magnetic resonance, luminescence and structural studies of lanthanide complexes with octadentate macrocyclic ligands bearing benzylphosphinate groups. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1997</b> , 3623-3636		82
49	A Multinuclear NMR Study on the Structure and Dynamics of Lanthanide(III) Complexes of the Poly(amino carboxylate) EGTA <sup>4-</sup> in Aqueous Solution. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 5104-5112	5.1	60
48	A Novel Compound in the Lanthanide(III) DOTA Series. X-ray Crystal and Molecular Structure of the Complex Na[La(DOTA)La(HDOTA)]·10H <sub>2</sub> O. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 4287-4289	5.1	73
47	Conformational and Coordination Equilibria on DOTA Complexes of Lanthanide Metal Ions in Aqueous Solution Studied by (1)H-NMR Spectroscopy. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 2059-2068	5.1	292
46	Prototropic and Whole Water Exchange Contributions to the Solvent Relaxation Enhancement in the Aqueous Solution of a Cationic Gd <sup>3+</sup> Macrocyclic Complex. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 4767-4768	16.4	88
45	Synthesis and NMR Studies of Three Pyridine-Containing Triaza Macrocyclic Triacetate Ligands and Their Complexes with Lanthanide Ions. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 2992-3000	5.1	104
44	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. <i>Journal of Biological Inorganic Chemistry</i> , <b>1997</b> , 2, 470-479	3.7	71
43	Relaxometric Determination of the Exchange Rate of the Coordinated Water Protons in a Neutral Gd(III) Chelate. <i>Chemistry - A European Journal</i> , <b>1997</b> , 3, 1499-1504	4.8	27



42	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> , <b>1996</b> , 35, 2726-2736	5.1	63
41	Extent of hydration of octadentate lanthanide complexes incorporating phosphinate donors: solution relaxometry and luminescence studies. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1996</b> , 17		66
40	Paramagnetic complexes as novel NMR pH indicators. <i>Chemical Communications</i> , <b>1996</b> , 1265	5.8	17
39	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> , <b>1996</b> , 1, 312-319	3.7	152
38	A new ytterbium chelate as contrast agent in chemical shift imaging and temperature sensitive probe for MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 648-51	4.4	74
37	Crystal structure and solution dynamics of the lutetium(III) chelate of DOTA. <i>Inorganica Chimica Acta</i> , <b>1996</b> , 246, 423-429	2.7	122
36	Lanthanide (III) complexes with a podand Schiff base containing an N4O3 coordination site. <i>Inorganica Chimica Acta</i> , <b>1996</b> , 247, 143-145	2.7	18
35	NMR conformational study of the lanthanide(III) complexes of DOTA in aqueous solution. <i>Journal of Alloys and Compounds</i> , <b>1995</b> , 225, 303-307	5.7	49
34	High-resolution NMR and relaxometric studies of Ln(III) complexes of relevance to MRI. <i>Journal of Alloys and Compounds</i> , <b>1995</b> , 225, 274-278	5.7	5
33	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-5,9,11-triazabicyclo[3.3.1]nonane-10-carboxylate(2-)] in Mixture with the Ferrous Ion	5.1	156
32	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> , <b>1995</b> , 2259		40
31	MRI Contrast agents: macrocyclic lanthanide(III) complexes with improved relaxation efficiency. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1995</b> , 1885		37
30	Solution and Solid-State Characterization of Highly Rigid, Eight-Coordinate Lanthanide(III) Complexes of a Macrocyclic Tetrabenzylphosphinate. <i>Inorganic Chemistry</i> , <b>1994</b> , 33, 4696-4706	5.1	111
29	NMR Evidence of a Long Exchange Lifetime for the Coordinated Water in Ln(III)-Bis(methyl amide)-DTPA Complexes (Ln = Gd, Dy). <i>Inorganic Chemistry</i> , <b>1994</b> , 33, 4707-4711	5.1	82
28	Synthesis and characterization of a novel DTPA-like gadolinium(III) complex: a potential reagent for the determination of glycosylated proteins by water proton NMR relaxation measurements. <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 2068-2071	5.1	31
27	Gd(DOTP)5-outer-sphere relaxation enhancement promoted by nitrogen bases. <i>Magnetic Resonance in Medicine</i> , <b>1993</b> , 30, 583-91	4.4	65
26	Paramagnetic GdIII/FeIII heterobimetallic complexes of DTPA-bis-salicylamide. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , <b>1993</b> , 49, 1315-1322		28
25	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> , <b>1992</b> , 225-228		52

24	NMR study of solution structures and dynamics of lanthanide(III) complexes of DOTA. <i>Inorganic Chemistry</i> , <b>1992</b> , 31, 4291-4299	5.1	278
23	Synthesis and NMRD studies of gadolinium(3+) complexes of macrocyclic polyamino polycarboxylic ligands bearing .beta.-benzyloxy-.alpha.-propionic residues. <i>Inorganic Chemistry</i> , <b>1992</b> , 31, 1100-1103	5.1	46
22	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-tetraazacyclododecan acid-gadolinium(III) complex. <i>Inorganic Chemistry</i> , <b>1992</b> , 31, 2422-2428	5.1	101
21	Disperse and cationic azo dyes from heterocyclic intermediates. <i>Dyes and Pigments</i> , <b>1992</b> , 19, 69-79	4.6	2
20	Paramagnetic water proton relaxation enhancement: from contrast agents in MRI to reagents for quantitative "in vitro" assays. <i>Magnetic Resonance Imaging</i> , <b>1992</b> , 10, 849-54	3.3	14
19	Trends in NMR studies of paramagnetic Gd(III) complexes as potential contrast agents in MRI. <i>Magnetic Resonance Imaging</i> , <b>1991</b> , 9, 843-847	3.3	19
18	An NMR relaxation study of aqueous solutions of Gd(III) chelates. <i>Journal of Magnetic Resonance</i> , <b>1991</b> , 92, 572-580		2
17	Inclusion complexes between Cyclodextrin and Benzyloxy-Propionic derivatives of paramagnetic DOTA- and DPTA-Gd(III) complexes. <i>Magnetic Resonance in Chemistry</i> , <b>1991</b> , 29, 923-927	2.1	50
16	Water signal suppression by T2-relaxation enhancement promoted by Dy(III) complexes. <i>Magnetic Resonance in Chemistry</i> , <b>1991</b> , 29, S85-S88	2.1	19
15	NMR studies of the reorientational motions of cyclopentadienyl ligands in solid cis- and trans-[(C5H5)2Fe2(CO)2(CO)2]. <i>Magnetic Resonance in Chemistry</i> , <b>1990</b> , 28, S52-S58	2.1	12
14	Solution structure and dynamics of DTPA-Ln(III) complexes (DTPA=diethylene triamine penta acetate; Ln=La, Pr, Eu). <i>Inorganica Chimica Acta</i> , <b>1990</b> , 177, 101-105	2.7	32
13	Solid state 13C CP-MAS NMR spectra of iron (alkyne) carbonyl compounds. <i>Journal of Organometallic Chemistry</i> , <b>1989</b> , 368, 331-338	2.3	5
12	NMR studies of L-dopa melanin-manganese(II) complex in water solution. <i>Journal of Inorganic Biochemistry</i> , <b>1989</b> , 36, 1-9	4.2	6
11	High-field magic-angle-spinning carbon-13 NMR spectroscopy of tetracobalt dodecacarbonyl. <i>Inorganic Chemistry</i> , <b>1989</b> , 28, 1196-1198	5.1	17
10	Solution structure and dynamic behaviour of two isomers of [Fe3(CO)9{P(OR)3}3](R = Me, Et, or Ph) derivatives. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1989</b> , 1277		3
9	13C solid State MAS NMR spectra of [M3(CO)12] complexes (M = Ru and Os). Evidence for motional effects in [Ru3(CO)12]. <i>Inorganica Chimica Acta</i> , <b>1988</b> , 146, 151-152	2.7	18
8	Organometal clusters as models for corrosion inhibitors. The reaction of Os3(CO)10(NCCH3)2 with benzotriazole. <i>Journal of Organometallic Chemistry</i> , <b>1988</b> , 353, 251-257	2.3	6
7	Notes. Carbon-13 and oxygen-17 nuclear magnetic resonance relaxation studies of [M3(CO)12] derivatives (M = Fe, Ru, or Os). <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1988</b> , 791		10

- |   |  |        |
|---|--|--------|
| 6 | Reorientation of the alkyne moiety in the heterometallic cluster [FeCo <sub>2</sub> (CO) <sub>9</sub> (EtC <sub>2</sub> Et)], induced by phosphine, phosphite, or isonitrile substitution for CO. Crystal structure of [FeCo <sub>2</sub> (CO) <sub>8</sub> (PPh <sub>3</sub> )(EtC <sub>2</sub> Et)]. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1988</b> , 1249 | 10     |
| 5 | Photochemical and photocatalytic behaviour of $\mu$ -over-bridge complexes. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1988</b> , 2519-2524   | 7      |
| 4 | Synthesis of the alkoxo(hydrido)-clusters [Ru <sub>3</sub> ( $\mu$ -H)(CO) <sub>10</sub> ( $\mu$ -OR)] [R = Me, Et, Prn, or Bun] catalysed by dinuclear carbonyl iron complexes. <i>Journal of the Chemical Society Dalton Transactions</i> , <b>1987</b> , 253-254  | 7      |
| 3 | Bis(diphenylphosphino)methane-substituted products from ( $\beta$ -CCH <sub>3</sub> )Co <sub>3</sub> (CO) <sub>9</sub> . <i>Journal of Organometallic Chemistry</i> , <b>1987</b> , 320, 229-237   | 2.3 13 |
| 2 | Activation of the M $\pi$ CO bond in transition metal complexes. CO substitution reactions in di-, tri- and tetra-nuclear metal carbonyl compounds catalyzed by [Fe(CO) <sub>2</sub> ( $\eta$ -C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> ]. <i>Inorganica Chimica Acta</i> , <b>1986</b> , 115, 129-133   | 2.7 13 |
| 1 | Optimizing the relaxivity at high fields: systematic variation of the rotational dynamics in polynuclear Gd-complexes based on the AAZTA ligand. <i>Inorganic Chemistry Frontiers</i> ,  | 6.8 1  |