Mauro Botta

List of Publications by Year
in descending order

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273	13,980	15503 65	29154 104
papers	citations	h-index	g-index

288	288	288	7256
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lanthanide(III) chelates for NMR biomedical applications. Chemical Society Reviews, 1998, 27, 19-29.	38.1	698
2	Conformational and Coordination Equilibria on DOTA Complexes of Lanthanide Metal Ions in Aqueous Solution Studied by 1H-NMR Spectroscopy. Inorganic Chemistry, 1997, 36, 2059-2068.	4.0	333
3	NMR study of solution structures and dynamics of lanthanide(III) complexes of DOTA. Inorganic Chemistry, 1992, 31, 4291-4299.	4.0	323
4	Gd(III)-BASED CONTRAST AGENTS FOR MRI. Advances in Inorganic Chemistry, 2005, 57, 173-237.	1.0	307
5	The Selectivity of Reversible Oxy-Anion Binding in Aqueous Solution at a Chiral Europium and Terbium Center:Â Signaling of Carbonate Chelation by Changes in the Form and Circular Polarization of Luminescence Emission. Journal of the American Chemical Society, 2000, 122, 9674-9684.	13.7	292
6	pH-Dependent Modulation of Relaxivity and Luminescence in Macrocyclic Gadolinium and Europium Complexes Based on Reversible Intramolecular Sulfonamide Ligation. Journal of the American Chemical Society, 2001, 123, 7601-7609.	13.7	269
7	NMR, Relaxometric, and Structural Studies of the Hydration and Exchange Dynamics of Cationic Lanthanide Complexes of Macrocyclic Tetraamide Ligands. Journal of the American Chemical Society, 1999, 121, 5762-5771.	13.7	267
8	Second Coordination Sphere Water Molecules and Relaxivity of Gadolinium(III) Complexes: Implications for MRI Contrast Agents. European Journal of Inorganic Chemistry, 2000, 2000, 399-407.	2.0	260
9	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. Journal of the American Chemical Society, 2002, 124, 12697-12705.	13.7	246
10	Prototropic and Water-Exchange Processes in Aqueous Solutions of Gd(III) Chelates. Accounts of Chemical Research, 1999, 32, 941-949.	15.6	198
11	Correlation of Water Exchange Rate with Isomeric Composition in Diastereoisomeric Gadolinium Complexes of Tetra(carboxyethyl)dota and Related Macrocyclic Ligands. Journal of the American Chemical Society, 2000, 122, 9781-9792.	13.7	189
12	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-oato(5-)]gadolinate(2-) in a Mixture with Its Enantiomer. Inorganic Chemistry, 1995, 34, 633-643.	4.0	180
13	Relaxivity Enhancement in Macromolecular and Nanosized Gd^{III}â€Based MRI Contrast Agents. European Journal of Inorganic Chemistry, 2012, 2012, 1945-1960.	2.0	173
14	Gd(III) complexes as contrast agents for magnetic resonance imaging: a proton relaxation enhancement study of the interaction with human serum albumin. Journal of Biological Inorganic Chemistry, 1996, 1, 312-319.	2.6	167
15	High Relaxivity Gadolinium Hydroxypyridonateâ^'Viral Capsid Conjugates:â€‰ Nanosized MRI Contrast Agents¹. Journal of the American Chemical Society, 2008, 130, 2546-2552.	13.7	165
16	Solution and Solid-State Characterization of Highly Rigid, Eight-Coordinate Lanthanide(III) Complexes of a Macrocyclic Tetrabenzylphosphinate. Inorganic Chemistry, 1994, 33, 4696-4706.	4.0	152
17	Ap(O2)-Responsive MRI Contrast Agent Based on the Redox Switch of Manganese(II /III) - Porphyrin Complexes. Angewandte Chemie - International Edition, 2000, 39, 747-750.	13.8	150
18	Large Relaxivity Enhancement of Paramagnetic Lipid Nanoparticles by Restricting the Local Motions of the Gd^{III} Chelates. Journal of the American Chemical Society, 2010, 132, 7836-7837.	13.7	143

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19	Crystal structure and solution dynamics of the lutetium(III) chelate of DOTA. Inorganica Chimica Acta, 1996, 246, 423-429.	2.4	141
20	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. Journal of Biological Inorganic Chemistry, 2000, 5, 488-497.	2.6	140
21	Structural Variations Across the Lanthanide Series of Macrocyclic DOTA Complexes:Â Insights into the Design of Contrast Agents for Magnetic Resonance Imaging. Inorganic Chemistry, 2003, 42, 148-157.	4.0	140
22	Magnetic Resonance Contrast Agents from Viral Capsid Shells:â€‰ A Comparison of Exterior and Interior Cargo Strategies. Nano Letters, 2007, 7, 2207-2210.	9.1	135
23	Direct NMR Spectroscopic Observation of a Lanthanideâ€Coordinated Water Molecule whose Exchange Rate Is Dependent on the Conformation of the Complexes. Angewandte Chemie - International Edition, 1998, 37, 2673-2675.	13.8	133
24	NMR relaxometric studies of Gd(III) complexes with heptadentate macrocyclic ligands. Magnetic Resonance in Chemistry, 1998, 36, S200-S208.	1.9	129
25	Structure and Function of Iron-Loaded Synthetic Melanin. ACS Nano, 2016, 10, 10186-10194.	14.6	127
26	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-1,4,7-triaceti acid-gadolinium(III) complex. Inorganic Chemistry, 1992, 31, 2422-2428.	4.0	122
27	Synthesis and NMR Studies of Three Pyridine-Containing Triaza Macrocyclic Triacetate Ligands and Their Complexes with Lanthanide Ions. Inorganic Chemistry, 1997, 36, 2992-3000.	4.0	119
28	Scaling laws at the nanosize: the effect of particle size and shape on the magnetism and relaxivity of iron oxide nanoparticle contrast agents. Journal of Materials Chemistry B, 2013, 1, 2818.	5.8	112
29	PrototropicvsWhole Water Exchange Contributions to the Solvent Relaxation Enhancement in the Aqueous Solution of a Cationic Gd3+Macrocyclic Complex. Journal of the American Chemical Society, 1997, 119, 4767-4768.	13.7	108
30	PAMAM Dendrimeric Conjugates with a Gdâ^'DOTA Phosphinate Derivative and Their Adducts with Polyaminoacids:Â The Interplay of Global Motion, Internal Rotation, and Fast Water Exchange. Bioconjugate Chemistry, 2006, 17, 975-987.	3.6	108
31	Highly Luminescent Eu3+and Tb3+Macrocyclic Complexes Bearing an Appended Phenanthroline Chromophore. Inorganic Chemistry, 2002, 41, 2777-2784.	4.0	105
32	Relaxometric evaluation of novel manganese(II) complexes for application as contrast agents in magnetic resonance imaging. Journal of Biological Inorganic Chemistry, 2002, 7, 58-67.	2.6	98
33	Design Principles and Theory of Paramagnetic Fluorineâ€Labelled Lanthanide Complexes as Probes for ¹⁹F Magnetic Resonance: A Proofâ€ofâ€Concept Study. Chemistry - A European Journal, 2010, 16, 134-148.	3.3	98
34	Highly Soluble Tris-hydroxypyridonate Gd(III) Complexes with Increased Hydration Number, Fast Water Exchange, Slow Electronic Relaxation, and High Relaxivity1. Journal of the American Chemical Society, 2007, 129, 1870-1871.	13.7	97
35	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.	4.0	95
36	Syntheses and Relaxation Properties of Mixed Gadolinium Hydroxypyridinonate MRI Contrast Agents. Inorganic Chemistry, 2000, 39, 5747-5756.	4.0	95

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37	A Novel Compound in the Lanthanide(III) DOTA Series. X-ray Crystal and Molecular Structure of the Complex Na[La(DOTA)La(HDOTA)]Â·10H2O. Inorganic Chemistry, 1997, 36, 4287-4289.	4.0	87
38	Optimization of the Relaxivity of MRI Contrast Agents:â€‰ Effect of Poly(ethylene glycol) Chains on the Water-Exchange Rates of GdIII Complexes. Journal of the American Chemical Society, 2001, 123, 10758-10759.	13.7	87
39	Ternary Complexes between Cationic GdIII Chelates and Anionic Metabolites in Aqueous Solution: An NMR Relaxometric Study. Chemistry - A European Journal, 2003, 9, 2102-2109.	3.3	87
40	[GdPCP2A(H2O)2]-: A Paramagnetic Contrast Agent Designed for Improved Applications in Magnetic Resonance Imaging. Journal of Medicinal Chemistry, 2000, 43, 4017-4024.	6.4	86
41	Properties, Solution State Behavior, and Crystal Structures of Chelates of DOTMA. Inorganic Chemistry, 2011, 50, 7955-7965.	4.0	86
42	Dendrimeric Gadolinium Chelate with Fast Water Exchange and High Relaxivity at High Magnetic Field Strength. Journal of the American Chemical Society, 2005, 127, 504-505.	13.7	84
43	Glycoconjugates of gadolinium complexes for MRI applications. Chemical Communications, 2006, , 1064.	4.1	84
44	A new ytterbium chelate as contrast agent in chemical shift imaging and temperature sensitive probe for MR spectroscopy. Magnetic Resonance in Medicine, 1996, 35, 648-651.	3.0	83
45	A macromolecular Gd(III) complex as pH-responsive relaxometric probe for MRI applications. Chemical Communications, 1999, , 1577-1578.	4.1	83
46	A Tris-hydroxymethyl-Substituted Derivative of Gd-TREN-Me-3,2-HOPO:â€‰ An MRI Relaxation Agent with Improved Efficiency. Journal of the American Chemical Society, 2000, 122, 11228-11229.	13.7	83
47	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.	1.1	82
48	Substituent Effects on Gd(III)-Based MRI Contrast Agents:â€‰ Optimizing the Stability and Selectivity of the Complex and the Number of Coordinated Water Molecules1. Inorganic Chemistry, 2006, 45, 8355-8364.	4.0	82
49	A Highly Stable Gadolinium Complex with a Fast, Associative Mechanism of Water Exchange. Journal of the American Chemical Society, 2003, 125, 14274-14275.	13.7	81
50	Mn(II) compounds as an alternative to Gd-based MRI probes. Future Medicinal Chemistry, 2019, 11, 1461-1483.	2.3	81
51	Isostructural Series of Nine-Coordinate Chiral Lanthanide Complexes Based on Triazacyclononane. Inorganic Chemistry, 2012, 51, 8042-8056.	4.0	80
52	Relaxometric, Structural, and Dynamic NMR Studies of DOTA-like Ln(III) Complexes (Ln = La, Gd, Ho, Yb) Containing ap-Nitrophenyl Substituent. Inorganic Chemistry, 1996, 35, 2726-2736.	4.0	77
53	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.	2.6	77
54	¹H and ¹⁷O NMR Relaxometric and Computational Study on Macrocyclic Mn(II) Complexes. Inorganic Chemistry, 2013, 52, 3268-3279.	4.0	77

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55	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.	3.3	76
56	A Multinuclear NMR Study on the Structure and Dynamics of Lanthanide(III) Complexes of the Poly(amino carboxylate) EGTA4-in Aqueous Solution. Inorganic Chemistry, 1997, 36, 5104-5112.	4.0	74
57	Gd(DOTP)5- outer-sphere relaxation enhancement promoted by nitrogen bases. Magnetic Resonance in Medicine, 1993, 30, 583-591.	3.0	71
58	Dependence of the relaxivity and luminescence of gadolinium and europium amino-acid complexes on hydrogencarbonate and pH. Chemical Communications, 1999, , 1047-1048.	4.1	71
59	Identification of emissive lanthanide complexes suitable for cellular imaging that resist quenching by endogenous anti-oxidants. Organic and Biomolecular Chemistry, 2007, 5, 2055.	2.8	71
60	Extent of hydration of octadentate lanthanide complexes incorporating phosphinate donors: solution relaxometry and luminescence studies. Journal of the Chemical Society Dalton Transactions, 1996, , 17.	1.1	69
61	Non-covalent Conjugates between Cationic Polyamino Acids and GdIII Chelates: A Route for Seeking Accumulation of MRI-Contrast Agents at Tumor Targeting Sites. Chemistry - A European Journal, 2000, 6, 2609-2617.	3.3	69
62	High-Relaxivity Contrast Agents for Magnetic Resonance Imaging Based on Multisite Interactions between aÎ²-Cyclodextrin Oligomer and Suitably Functionalized GdIII Chelates. Chemistry - A European Journal, 2001, 7, 5261-5269.	3.3	69
63	Controlling the variation of axial water exchange rates in macrocyclic lanthanide(iii) complexesElectronic supplementary information (ESI) available: experimental section. See http://www.rsc.org/suppdata/cc/b2/b202862j/. Chemical Communications, 2002, , 1120-1121.	4.1	69
64	A Chemical Strategy for the Relaxivity Enhancement of Gd^{III} Chelates Anchored on Mesoporous Silica Nanoparticles. Chemistry - A European Journal, 2010, 16, 10727-10734.	3.3	69
65	Novel Paramagnetic Macromolecular Complexes Derived from the Linkage of a Macrocyclic Gd(III) Complex to Polyamino Acids through a Squaric Acid Moiety. Bioconjugate Chemistry, 1999, 10, 192-199.	3.6	66
66	Polycatechol Nanoparticle MRI Contrast Agents. Small, 2016, 12, 668-677.	10.0	64
67	Gadolinium(III) 1,2-Hydroxypyridonate-Based Complexes:Â Toward MRI Contrast Agents of High Relaxivity1. Inorganic Chemistry, 2004, 43, 5492-5494.	4.0	63
68	Lanthanide(III) Complexes with Ligands Derived from a Cyclen Framework Containing Pyridinecarboxylate Pendants. The Effect of Steric Hindrance on the Hydration Number. Inorganic Chemistry, 2012, 51, 2509-2521.	4.0	63
69	Synthesis and NMRD studies of gadolinium(3+) complexes of macrocyclic polyamino polycarboxylic ligands bearing .beta.-benzyloxy-.alpha.-propionic residues. Inorganic Chemistry, 1992, 31, 1100-1103.	4.0	62
70	Relaxivity modulation in Gd-functionalised mesoporous silicas. Chemical Communications, 2009, , 1246.	4.1	62
71	Inclusion complexes between Î²-cyclodextrin and Î²-benzyloxy-Î±-propionic derivatives of paramagnetic DOTA- and DPTA-Gd(III) complexes. Magnetic Resonance in Chemistry, 1991, 29, 923-927.	1.9	58
72	1,2-Hydroxypyridonates as Contrast Agents for Magnetic Resonance Imaging:â€‰ TREN-1,2-HOPO. Inorganic Chemistry, 2007, 46, 9182-9191.	4.0	58

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73	Dendrimeric Gd(iii) complex of a monophosphinated DOTA analogue: optimizing relaxivity by reducing internal motion. Chemical Communications, 2005, , 2390.	4.1	57
74	NMR conformational study of the lanthanide(III) complexes of DOTA in aqueous solution. Journal of Alloys and Compounds, 1995, 225, 303-307.	5.5	56
75	Determination of metalâ€“proton distances and electronic relaxation times in lanthanide complexes by nuclear magnetic resonance spectroscopy. Journal of the Chemical Society Dalton Transactions, 1992, , 225-228.	1.1	54
76	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.	3.3	54
77	Picolinate-Containing Macrocyclic Mn²⁺ Complexes as Potential MRI Contrast Agents. Inorganic Chemistry, 2014, 53, 5136-5149.	4.0	54
78	A stable, high relaxivity, diaqua gadolinium complex that suppresses anion and protein bindingElectronic supplementary information (ESI) available: pH dependence of europium emission spectra, stability screening details and relaxivity/pH plots for selected Gd complexes. See http://www.rsc.org/suppdata/cc/b1/b108294a/. Chemical Communications, 2001, , 2742-2743.	4.1	53
79	195Pt NMR spectroscopy: A chemometric approach. Coordination Chemistry Reviews, 2006, 250, 2158-2174.	18.8	53
80	Mn(ii) complexes of novel hexadentate AAZTA-like chelators: a solution thermodynamics and relaxometric study. Dalton Transactions, 2011, 40, 2025.	3.3	53
81	Combined High Resolution NMR and ¹H and ¹⁷O Relaxometric Study Sheds Light on the Solution Structure and Dynamics of the Lanthanide(III) Complexes of HPDO3A. Inorganic Chemistry, 2013, 52, 7130-7138.	4.0	52
82	A Multinuclear NMR Relaxometry Study of Ternary Adducts Formed between Heptadentate GdIII Chelates andL-Lactate. Chemistry - A European Journal, 2005, 11, 5531-5537.	3.3	50
83	AAZTA-based bifunctional chelating agents for the synthesis of multimeric/dendrimeric MRI contrast agents. Organic and Biomolecular Chemistry, 2010, 8, 4569.	2.8	50
84	Characterisation of magnetic resonance imaging (MRI) contrast agents using NMR relaxometry. Molecular Physics, 2019, 117, 898-909.	1.7	50
85	Relaxometric and luminescence behaviour of triaquahexaazamacrocyclic complexes, the gadolinium complex displaying a high relaxivity with a pronounced pH dependence. New Journal of Chemistry, 1998, 22, 627-631.	2.8	49
86	Modulation of the water exchange rates in [Gdâ€“DO3A] complex by formation of ternary complexes with carboxylate ligands. Chemical Communications, 2001, , 115-116.	4.1	49
87	Molecular Dynamics Simulation of [Gd(egta)(H2O)]â˜ in Aqueous Solution: Internal Motions of the Poly(amino carboxylate) and Water Ligands, and Rotational Correlation Times. Chemistry - A European Journal, 2002, 8, 1031.	3.3	49
88	Tuning the Coordination Number of Hydroxypyridonate-Based Gadolinium Complexes:Â Implications for MRI Contrast Agents1. Journal of the American Chemical Society, 2006, 128, 5344-5345.	13.7	49
89	Maximizing the relaxivity of HSA-bound gadolinium complexes by simultaneous optimization of rotation and water exchange. Chemical Communications, 2007, , 4726.	4.1	49
90	An esterase-activated magnetic resonance contrast agent. Chemical Communications, 2007, , 4044.	4.1	49

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91	Fast and easy access to efficient bifunctional chelators for MRI applications. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3442-3444.	2.2	49
92	17O and 1H relaxometric and DFT study of hyperfine coupling constants in [Mn(H2O)6]2+. RSC Advances, 2014, 4, 7094.	3.6	49
93	1H and 17O-NMR relaxometric investigations of paramagnetic contrast agents for MRI. Clues for higher relaxivities. Coordination Chemistry Reviews, 1999, 185-186, 321-333.	18.8	48
94	Efficient relaxivity enhancement in dendritic gadolinium complexes: effective motional coupling in medium molecular weight conjugates. Chemical Communications, 2005, , 474.	4.1	48
95	High Relaxivity Gadoliniumâ€Polydopamine Nanoparticles. Small, 2017, 13, 1701830.	10.0	48
96	Hyperfine Coupling Constants on Inner-Sphere Water Molecules of a Triazacyclononane-based Mn(II) Complex and Related Systems Relevant as MRI Contrast Agents. Inorganic Chemistry, 2013, 52, 11173-11184.	4.0	47
97	Fe(III)-Templated Gd(III) Self-AssembliesA New Route toward Macromolecular MRI Contrast Agents1. Journal of the American Chemical Society, 2006, 128, 9272-9273.	13.7	46
98	Contrast Agents for Magnetic Resonance Imaging: A Novel Route to Enhanced Relaxivities Based on the Interaction of a GdIII Chelate with Poly-Î²-cyclodextrins. Chemistry - A European Journal, 1999, 5, 1253-1260.	3.3	45
99	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. Inorganic Chemistry, 1999, 38, 2906-2916.	4.0	44
100	6-Carboxamido-5,4-Hydroxypyrimidinones:Â A New Class of Heterocyclic Ligands and Their Evaluation as Gadolinium Chelating Agents. Inorganic Chemistry, 2001, 40, 6746-6756.	4.0	44
101	Relaxometric and solution NMR structural studies on ditopic lanthanide(iii) complexes of a phosphinate analogue of DOTA with a fast rate of water exchange. Dalton Transactions, 2006, , 2323.	3.3	44
102	A new bifunctional GdIII complex of enhanced efficacy for MR-molecular imaging applications. Dalton Transactions, 2009, , 9712.	3.3	44
103	Nuclear magnetic resonance studies of neutral lanthanide(III) complexes with tetraaza-macrocyclic ligands containing three phosphinate and one carboxamide co-ordinating arms. Journal of the Chemical Society Dalton Transactions, 1995, , 2259.	1.1	43
104	Selective Anchoring of Gd^{III} Chelates on the External Surface of Organoâ€Modified Mesoporous Silica Nanoparticles: A New Chemical Strategy To Enhance Relaxivity. Chemistry - A European Journal, 2013, 19, 1421-1428.	3.3	43
105	Solution structure and dynamics of DTPA-Ln(III) complexes (DTPA=diethylene triamine penta acetate;) Tj ETQq1 1 0.784314 rgBT /Ov	2.4	42
106	Strategies to enhance signal intensity with paramagnetic fluorine-labelled lanthanide complexes as probes for¹⁹F magnetic resonance. Dalton Transactions, 2011, 40, 904-913.	3.3	42
107	Structure and relaxivity of macrocyclic gadolinium complexes incorporating pyridyl and 4-morpholinopyridyl substituents. New Journal of Chemistry, 1999, 23, 669.	2.8	41
108	A Calix[4]arene GdIII Complex Endowed with High Stability, Relaxivity, and Binding Affinity to Serum Albumin. Angewandte Chemie - International Edition, 2001, 40, 4737-4739.	13.8	41

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109	Solution Structure of Ln(III) Complexes with Macrocyclic Ligands Through Theoretical Evaluation of ¹H NMR Contact Shifts. Inorganic Chemistry, 2012, 51, 13419-13429.	4.0	41
110	Novel stable dendrimersome formulation for safe bioimaging applications. Nanoscale, 2015, 7, 12943-12954.	5.6	41
111	Developing the family of picolinate ligands for Mn²⁺ complexation. Dalton Transactions, 2017, 46, 1546-1558.	3.3	41
112	Gdâ€Based Mesoporous Silica Nanoparticles as MRI Probes. European Journal of Inorganic Chemistry, 2018, 2018, 4936-4954.	2.0	41
113	1,2-Hydroxypyridonate/Terephthalamide Complexes of Gadolinium(III): Synthesis, Stability, Relaxivity, and Water Exchange Properties. Inorganic Chemistry, 2009, 48, 277-286.	4.0	40
114	Thermodynamic stability, kinetic inertness and relaxometric properties of monoamide derivatives of lanthanide(<scp>iii</scp>) DOTA complexes. Dalton Transactions, 2015, 44, 5467-5478.	3.3	40
115	Mono-, Bi-, and Trinuclear Bis-Hydrated Mn²⁺ Complexes as Potential MRI Contrast Agents. Inorganic Chemistry, 2015, 54, 9576-9587.	4.0	40
116	Steric control of lanthanide hydration state: fast water exchange at gadolinium in a mono-amide â€˜DOTAâ€™ complex. Dalton Transactions, 2004, , 1441-1445.	3.3	39
117	Hetero-Tripodal Hydroxypyridonate Gadolinium Complexes:Â Syntheses, Relaxometric Properties, Water Exchange Dynamics, and Human Serum Albumin Binding1. Inorganic Chemistry, 2004, 43, 8577-8586.	4.0	39
118	Optimized Relaxivity and Stability of [Gd(H(2,2)-1,2-HOPO)(H2O)]-for Use as an MRI Contrast Agent1. Inorganic Chemistry, 2007, 46, 4796-4798.	4.0	39
119	Characterisation and evaluation of paramagnetic fluorine labelled glycol chitosan conjugates for 19F and 1H magnetic resonance imaging. Journal of Biological Inorganic Chemistry, 2014, 19, 215-227.	2.6	39
120	Structural Features of Europium(II)â€Containing Cryptates That Influence Relaxivity. Chemistry - A European Journal, 2017, 23, 15404-15414.	3.3	39
121	MRI Contrast agents: macrocyclic lanthanide(III) complexes with improved relaxation efficiency. Journal of the Chemical Society Chemical Communications, 1995, , 1885.	2.0	38
122	Tris(pyrone) Chelates of Gd(III) as High Solubility MRI-CA. Journal of the American Chemical Society, 2006, 128, 2222-2223.	13.7	38
123	A Singleâ€Pot Template Reaction Towards a Manganeseâ€Based T₁ Contrast Agent. Angewandte Chemie - International Edition, 2021, 60, 10736-10744.	13.8	38
124	A holmium complex of a macrocyclic ligand (DOTA) and its isostructural europium analogue. Acta Crystallographica Section C: Crystal Structure Communications, 1999, 55, 353-356.	0.4	37
125	Lower Ligand Denticity Leading to Improved Thermodynamic and Kinetic Stability of the Gd³⁺ Complex: The Strange Case of OBETA. Chemistry - A European Journal, 2012, 18, 7680-7685.	3.3	37
126	First in vivo MRI study on theranostic dendrimersomes. Journal of Controlled Release, 2017, 248, 45-52.	9.9	37

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127	Application of the Ugi four-component reaction to the synthesis of ditopic bifunctional chelating agents. Organic and Biomolecular Chemistry, 2009, 7, 4406.	2.8	36
128	Synthesis and characterization of a novel DTPA-like gadolinium(III) complex: a potential reagent for the determination of glycated proteins by water proton NMR relaxation measurements. Inorganic Chemistry, 1993, 32, 2068-2071.	4.0	35
129	NMR relaxometric study of new GdIII macrocyclic complexes and their interaction with human serum albumin. Organic and Biomolecular Chemistry, 2004, 2, 570.	2.8	34
130	Cleavable Î²-cyclodextrin nanocapsules incorporating GdIII-chelates as bioresponsive MRI probes. Chemical Communications, 2011, 47, 3144.	4.1	34
131	Dendrimersomes: a new vesicular nano-platform for MR-molecular imaging applications. Chemical Communications, 2014, 50, 3453-3456.	4.1	34
132	Large photoacoustic effect enhancement for ICG confined inside MCM-41 mesoporous silica nanoparticles. Nanoscale, 2017, 9, 99-103.	5.6	34
133	Defining the conditions for the development of the emerging class of Fe^{III}-based MRI contrast agents. Chemical Science, 2021, 12, 11138-11145.	7.4	34
134	Rare earth elements (REE) in biology and medicine. Rendiconti Lincei, 2020, 31, 821-833.	2.2	33
135	Synthesis, NMR, relaxometry and circularly polarised luminescence studies of macrocyclic monoamidetris(phosphinate) complexes bearing a remote chiral centre. Journal of the Chemical Society Dalton Transactions, 1998, , 881-892.	1.1	32
136	The Effect of Ligand Scaffold Size on the Stability of Tripodal Hydroxypyridonate Gadolinium Complexes. Inorganic Chemistry, 2003, 42, 2577-2583.	4.0	32
137	Coupling Fast Water Exchange to Slow Molecular Tumbling in Gd³⁺ Chelates: Why Faster Is Not Always Better. Inorganic Chemistry, 2013, 52, 8436-8450.	4.0	31
138	Lower Denticity Leading to Higher Stability: Structural and Solution Studies of Ln(III)â€“OBETA Complexes. Inorganic Chemistry, 2014, 53, 12499-12511.	4.0	31
139	Dramatic Increase of Selectivity for Heavy Lanthanide(III) Cations by Tuning the Flexibility of Polydentate Chelators. Inorganic Chemistry, 2010, 49, 616-625.	4.0	30
140	Paramagnetic GdIIIî—¸FeIII heterobimetallic complexes of DTPA-bis-salicylamide. Spectrochimica Acta Part A: Molecular Spectroscopy, 1993, 49, 1315-1322.	0.1	29
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