

Silvio Aime

List of Publications by Year in descending order

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737
papers

31,300
citations

5268

83
h-index

11939

134
g-index

839
all docs

839
docs citations

839
times ranked

18741
citing authors

#	ARTICLE	IF	CITATIONS
1	Theranostic Nanomedicine. <i>Accounts of Chemical Research</i> , 2011, 44, 1029-1038.	15.6	765
2	Challenges for Molecular Magnetic Resonance Imaging. <i>Chemical Reviews</i> , 2010, 110, 3019-3042.	47.7	728
3	Lanthanide(III) chelates for NMR biomedical applications. <i>Chemical Society Reviews</i> , 1998, 27, 19-29.	38.1	698
4	Biodistribution of gadolinium-based contrast agents, including gadolinium deposition. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 1259-1267.	3.4	444
5	Paramagnetic Lanthanide(III) complexes as pH-sensitive chemical exchange saturation transfer (CEST) contrast agents for MRI applications. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 639-648.	3.0	365
6	Insights into the use of paramagnetic Gd(III) complexes in MR-molecular imaging investigations. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 16, 394-406.	3.4	340
7	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.	4.0	333
8	Pushing the Sensitivity Envelope of Lanthanide-Based Magnetic Resonance Imaging (MRI) Contrast Agents for Molecular Imaging Applications. <i>Accounts of Chemical Research</i> , 2009, 42, 822-831.	15.6	327
9	NMR study of solution structures and dynamics of lanthanide(III) complexes of DOTA. <i>Inorganic Chemistry</i> , 1992, 31, 4291-4299.	4.0	323
10	Gd(III)-BASED CONTRAST AGENTS FOR MRI. <i>Advances in Inorganic Chemistry</i> , 2005, 57, 173-237.	1.0	307
11	The Selectivity of Reversible Oxy-Anion Binding in Aqueous Solution at a Chiral Europium and Terbium Center: A 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.	13.7	292
12	High sensitivity lanthanide(III) based probes for MR-medical imaging. <i>Coordination Chemistry Reviews</i> , 2006, 250, 1562-1579.	18.8	284
13	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, 7601-7609.	13.7	269
14	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.	13.7	267
15	Compartmentalization of a Gadolinium Complex in the Apoferritin Cavity: A Route To Obtain High Relaxivity Contrast Agents for Magnetic Resonance Imaging. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1017-1019.	13.8	265
16	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, 12697-12705.	13.7	246
17	[Gd-AAZTA]: A New Structural Entry for an Improved Generation of MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2004, 43, 7588-7590.	4.0	217
18	ParaHydrogen Induced Polarization of ¹³ C carboxylate resonance in acetate and pyruvate. <i>Nature Communications</i> , 2015, 6, 5858.	12.8	206

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19	Prototropic and Water-Exchange Processes in Aqueous Solutions of Gd(III) Chelates. <i>Accounts of Chemical Research</i> , 1999, 32, 941-949.	15.6	198
20	Novel pH-Reporter MRI Contrast Agents. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4334-4336.	13.8	198
21	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.	13.7	189
22	Probing Protein Conformation in Cells by EPR Distance Measurements using Gd ³⁺ Spin Labeling. <i>Journal of the American Chemical Society</i> , 2014, 136, 13458-13465.	13.7	187
23	Highly Sensitive MRI Chemical Exchange Saturation Transfer Agents Using Liposomes. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5513-5515.	13.8	185
24	A Paramagnetic MRI-CEST Agent Responsive to Lactate Concentration. <i>Journal of the American Chemical Society</i> , 2002, 124, 9364-9365.	13.7	182
25	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-)]gadolate(2-) in a Mixture with Its Enantiomer. <i>Inorganic Chemistry</i> , 1995, 34, 622-642.	4.0	180
26	Iopamidol as a responsive MRI-chemical exchange saturation transfer contrast agent for pH mapping of kidneys: In vivo studies in mice at 7 T. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 202-211.	3.0	178
27	Tunable Imaging of Cells Labeled with MRI-PARACEST Agents. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1813-1815.	13.8	170
28	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.	2.6	167
29	High Relaxivity Gadolinium Hydroxypyridonate-Viral Capsid Conjugates: Nanosized MRI Contrast Agents ¹ . <i>Journal of the American Chemical Society</i> , 2008, 130, 2546-2552.	13.7	165
30	First 170 NMR Observation of Coordinated Water on Both Isomers of [Eu(DOTAM)(H ₂ O)] ³⁺ : A Direct Access to Water Exchange and its Role in the Isomerization. <i>Journal of the American Chemical Society</i> , 2000, 122, 1506-1512.	13.7	163
31	Effect of the intracellular localization of a Gd-based imaging probe on the relaxation enhancement of water protons. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 491-497.	3.0	158
32	A General MRI-CEST Ratiometric Approach for pH Imaging: Demonstration of <i>In Vivo</i> pH Mapping with Iobitridol. <i>Journal of the American Chemical Society</i> , 2014, 136, 14333-14336.	13.7	155
33	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.	4.0	152
34	Improved route for the visualization of stem cells labeled with a Gd ³⁺ /Eu ³⁺ Chelate as dual (MRI and Tj ETQq0 0 0 rBT /Overlock 10 Tf	3.0	151
35	Ap(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.	13.8	150
36	Crystal structure and solution dynamics of the lutetium(III) chelate of DOTA. <i>Inorganica Chimica Acta</i> , 1996, 246, 423-429.	2.4	141

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37	Ternary Gd(III)-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, 488-497.	2.6	140
38	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, 148-157.	4.0	140
39	Copper-Responsive Magnetic Resonance Imaging Contrast Agents. <i>Journal of the American Chemical Society</i> , 2009, 131, 8527-8536.	13.7	139
40	Image guided therapy: The advent of theranostic agents. <i>Journal of Controlled Release</i> , 2012, 161, 328-337.	9.9	136
41	<i>In Vivo</i> Imaging of Tumor Metabolism and Acidosis by Combining PET and MRI-CEST pH Imaging. <i>Cancer Research</i> , 2016, 76, 6463-6470.	0.9	134
42	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.	13.8	133
43	Magnetic Resonance Visualization of Tumor Angiogenesis by Targeting Neural Cell Adhesion Molecules with the Highly Sensitive Gadolinium-Loaded Apoferritin Probe. <i>Cancer Research</i> , 2006, 66, 9196-9201.	0.9	132
44	NMR relaxometric studies of Gd(III) complexes with heptadentate macrocyclic ligands. <i>Magnetic Resonance in Chemistry</i> , 1998, 36, S200-S208.	1.9	129
45	Effect of ibuprofen and warfarin on the allosteric properties of haem-human serum albumin. <i>FEBS Journal</i> , 2001, 268, 6214-6220.	0.2	123
46	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-triacetic acid-gadolinium(III) complex. <i>Inorganic Chemistry</i> , 1992, 31, 2422-2428.	4.0	122
47	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.	4.0	119
48	The ¹³ C hyperpolarized pyruvate generated by ParaHydrogen detects the response of the heart to altered metabolism in real time. <i>Scientific Reports</i> , 2018, 8, 8366.	3.3	119
49	Metal containing nanosized systems for MR-Molecular Imaging applications. <i>Coordination Chemistry Reviews</i> , 2008, 252, 2424-2443.	18.8	116
50	Iopamidol: Exploring the potential use of a well-established x-ray contrast agent for MRI. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 830-834.	3.0	115
51	Imaging the pH evolution of an acute kidney injury model by means of iopamidol, a MRI-CEST pH-responsive contrast agent. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 859-864.	3.0	114
52	Encoding the frequency dependence in MRI contrast media: the emerging class of CEST agents. <i>Contrast Media and Molecular Imaging</i> , 2010, 5, 78-98.	0.8	113
53	Ln(III)-DOTAMGly Complexes: A Versatile Series to Assess the Determinants of the Efficacy of Paramagnetic Chemical Exchange Saturation Transfer Agents for Magnetic Resonance Imaging Applications. <i>Investigative Radiology</i> , 2004, 39, 235-243.	6.2	112
54	Prototropic vs Whole Water Exchange Contributions to the Solvent Relaxation Enhancement in the Aqueous Solution of a Cationic Gd ³⁺ -Macrocyclic Complex. <i>Journal of the American Chemical Society</i> , 1997, 119, 4767-4768.	13.7	108

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55	PAMAM Dendrimeric Conjugates with a Gd ³⁺ 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, 975-987.	3.6	108
56	Yb ³⁺ HPDO3A: A Dual pH- and Temperature-Responsive CEST Agent. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1798-1800.	13.8	103
57	Development and validation of a smoothing-splines-based correction method for improving the analysis of CEST-MR images. <i>Contrast Media and Molecular Imaging</i> , 2008, 3, 136-149.	0.8	102
58	In Vitro and In Vivo Study of Solid Lipid Nanoparticles Loaded with Superparamagnetic Iron Oxide. <i>Journal of Drug Targeting</i> , 2003, 11, 19-24.	4.4	100
59	Contrast agents for magnetic resonance angiographic applications: ¹ H and ¹⁷ O NMR relaxometric investigations on two gadolinium(III) DTPA-like chelates endowed with high binding affinity to human serum albumin. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 766-774.	2.6	99
60	High-Relaxivity Magnetic Resonance Imaging (MRI) Contrast Agent Based on Supramolecular Assembly between a Gadolinium Chelate, a Modified Dextran, and Poly-β-Cyclodextrin. <i>Chemistry - A European Journal</i> , 2008, 14, 4551-4561.	3.3	99
61	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.	2.6	98
62	In vivo maps of extracellular pH in murine melanoma by CEST-MRI. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 326-332.	3.0	98
63	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, 1870-1871.	13.7	97
64	Targeting Cells with MR Imaging Probes Based on Paramagnetic Gd(III) Chelates. <i>Current Pharmaceutical Biotechnology</i> , 2004, 5, 509-518.	1.6	97
65	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> , 1994, 33, 4707-4711.	4.0	95
66	Syntheses and Relaxation Properties of Mixed Gadolinium Hydroxypyridinonate MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2000, 39, 5747-5756.	4.0	95
67	Relaxometric and Modelling Studies of the Binding of a Lipophilic Gd-AAZTA Complex to Fatted and Defatted Human Serum Albumin. <i>Chemistry - A European Journal</i> , 2007, 13, 5785-5797.	3.3	93
68	A R2/R1 Ratiometric Procedure for a Concentration-Independent, pH-Responsive, Gd(III)-Based MRI Agent. <i>Journal of the American Chemical Society</i> , 2006, 128, 11326-11327.	13.7	92
69	Gadolinium Retention in the Rat Brain: Assessment of the Amounts of Insoluble Gadolinium-containing Species and Intact Gadolinium Complexes after Repeated Administration of Gadolinium-based Contrast Agents. <i>Radiology</i> , 2017, 285, 839-849.	7.3	92
70	Dual-modality gene reporter for in vivo imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 415-420.	7.1	91
71	Proteomics as a tool to improve investigation of substantial equivalence in genetically modified organisms: The case of a virus-resistant tomato. <i>Proteomics</i> , 2004, 4, 193-200.	2.2	90
72	Equilibrium and Kinetic Properties of the Lanthanoids(III) and Various Divalent Metal Complexes of the Heptadentate Ligand AAZTA. <i>Chemistry - A European Journal</i> , 2009, 15, 1696-1705.	3.3	90

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73	Combined Delivery and Magnetic Resonance Imaging of Neural Cell Adhesion Molecule-Targeted Doxorubicin-Containing Liposomes in Experimentally Induced Kaposi's Sarcoma. <i>Cancer Research</i> , 2010, 70, 2180-2190.	0.9	90
74	Cellular labeling with Gd(III) chelates: only high thermodynamic stabilities prevent the cells acting as "sponges" of Gd ³⁺ ions. <i>Contrast Media and Molecular Imaging</i> , 2006, 1, 23-29.	0.8	89
75	NMR relaxometric investigations of solid lipid nanoparticles (SLN) containing gadolinium(III) complexes. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 1998, 45, 157-163.	4.3	88
76	A Novel Compound in the Lanthanide(III) DOTA Series. X-ray Crystal and Molecular Structure of the Complex Na[La(DOTA)La(HDOTA)]·10H ₂ O. <i>Inorganic Chemistry</i> , 1997, 36, 4287-4289.	4.0	87
77	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> , 2001, 123, 10758-10759.	13.7	87
78	Ternary Complexes between Cationic Gd(III) Chelates and Anionic Metabolites in Aqueous Solution: An NMR Relaxometric Study. <i>Chemistry - A European Journal</i> , 2003, 9, 2102-2109.	3.3	87
79	From Spherical to Osmotically Shrunken Paramagnetic Liposomes: An Improved Generation of LIPOCEST MRI Agents with Highly Shifted Water Protons. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 966-968.	13.8	87
80	Dissociation Kinetics of Open-Chain and Macrocyclic Gadolinium(III)-Aminopolycarboxylate Complexes Related to Magnetic Resonance Imaging: Catalytic Effect of Endogenous Ligands. <i>Chemistry - A European Journal</i> , 2012, 18, 16426-16435.	3.3	87
81	[GdPCP2A(H ₂ O) ₂]: A Paramagnetic Contrast Agent Designed for Improved Applications in Magnetic Resonance Imaging. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 4017-4024.	6.4	86
82	Properties, Solution State Behavior, and Crystal Structures of Chelates of DOTMA. <i>Inorganic Chemistry</i> , 2011, 50, 7955-7965.	4.0	86
83	Magnetic resonance imaging of gadolinium-labeled pancreatic islets for experimental transplantation. <i>NMR in Biomedicine</i> , 2007, 20, 40-48.	2.8	85
84	Synthesis of a bifunctional monophosphinic acid DOTA analogue ligand and its lanthanide(III) complexes. A gadolinium(III) complex endowed with an optimal water exchange rate for MRI applications. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 112-117.	2.8	84
85	Glycoconjugates of gadolinium complexes for MRI applications. <i>Chemical Communications</i> , 2006, , 1064.	4.1	84
86	A new ytterbium chelate as contrast agent in chemical shift imaging and temperature sensitive probe for MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 648-651.	3.0	83
87	A macromolecular Gd(III) complex as pH-responsive relaxometric probe for MRI applications. <i>Chemical Communications</i> , 1999, , 1577-1578.	4.1	83
88	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> , 2000, 122, 11228-11229.	13.7	83
89	Gd-Loaded Liposomes as T ₁ , Susceptibility, and CEST Agents, All in One. <i>Journal of the American Chemical Society</i> , 2007, 129, 2430-2431.	13.7	83
90	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> , 1997, , 3623-3636.	1.1	82

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91	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> , 2006, 45, 8355-8364.	4.0	82
92	A Highly Stable Gadolinium Complex with a Fast, Associative Mechanism of Water Exchange. <i>Journal of the American Chemical Society</i> , 2003, 125, 14274-14275.	13.7	81
93	MRI Visualization of Melanoma Cells by Targeting Overexpressed Sialic Acid with a Gd ^{III} -DOTA- ϵ -pba Imaging Reporter. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1161-1164.	13.8	81
94	Review and consensus recommendations on clinical APT-weighted imaging approaches at $3T$: Application to brain tumors. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 546-574.	3.0	79
95	Relaxometric, Structural, and Dynamic NMR Studies of DOTA-like Ln(III) Complexes (Ln = La, Gd, Ho, Yb) Containing <i>para</i> -Nitrophenyl Substituent. <i>Inorganic Chemistry</i> , 1996, 35, 2726-2736.	4.0	77
96	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> , 1997, 2, 470-479.	2.6	77
97	Platinum(II)-Gadolinium(III) Complexes as Potential Single-Molecular Theranostic Agents for Cancer Treatment. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13225-13228.	13.8	77
98	Paramagnetic Liposomes as Innovative Contrast Agents for Magnetic Resonance (MR) Molecular Imaging Applications. <i>Chemistry and Biodiversity</i> , 2008, 5, 1901-1912.	2.1	76
99	Designing Novel Contrast Agents for Magnetic Resonance Imaging. Synthesis and Relaxometric Characterization of three Gadolinium(III) Complexes Based on Functionalized Pyridine-Containing Macrocyclic Ligands. <i>Helvetica Chimica Acta</i> , 2003, 86, 615-632.	1.6	75
100	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.	4.0	74
101	Supramolecular Adducts between Poly-L-arginine and [Tm(III)DOTP]: A Route to Sensitivity-Enhanced Magnetic Resonance Imaging-Chemical Exchange Saturation Transfer Agents. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4527-4529.	13.8	74
102	Para-hydrogen enrichment and hyperpolarization. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2006, 28A, 321-330.	0.5	73
103	Functionalized Nanocontainers as Dual Magnetic and Optical Probes for Molecular Imaging Applications. <i>Chemistry of Materials</i> , 2008, 20, 5888-5893.	6.7	73
104	Current concepts on hyperpolarized molecules in MRI. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 90-96.	6.1	73
105	Gd(DOTP) ⁵⁻ outer-sphere relaxation enhancement promoted by nitrogen bases. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 583-591.	3.0	71
106	Dependence of the relaxivity and luminescence of gadolinium and europium amino-acid complexes on hydrogencarbonate and pH. <i>Chemical Communications</i> , 1999, , 1047-1048.	4.1	71
107	Determination of water permeability of paramagnetic liposomes of interest in MRI field. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 1112-1119.	3.5	70
108	Studies to enhance the hyperpolarization level in PHIP-SAH-produced C ¹³ -pyruvate. <i>Journal of Magnetic Resonance</i> , 2018, 289, 12-17.	2.1	70

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109	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.	1.1	69
110	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> , 2000, 6, 2609-2617.	3.3	69
111	High-Relaxivity Contrast Agents for Magnetic Resonance Imaging Based on Multisite Interactions between α 2-Cyclodextrin Oligomer and Suitably Functionalized GdIII Chelates. <i>Chemistry - A European Journal</i> , 2001, 7, 5261-5269.	3.3	69
112	Controlling the variation of axial water exchange rates in macrocyclic lanthanide(III) complexes. Electronic supplementary information (ESI) available: experimental section. See http://www.rsc.org/suppdata/cc/b2/b202862j/ . <i>Chemical Communications</i> , 2002, , 1120-1121.	4.1	69
113	In Vitro and in Vivo Magnetic Resonance Detection of Tumor Cells by Targeting Glutamine Transporters with Gd-Based Probes. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 4926-4936.	6.4	69
114	Targeting ferritin receptors for the selective delivery of imaging and therapeutic agents to breast cancer cells. <i>Nanoscale</i> , 2015, 7, 6527-6533.	5.6	67
115	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, 192-199.	3.6	66
116	Effects of Magnetic Field Cycle on the Polarization Transfer from Parahydrogen to Heteronuclei through Long-Range J-Couplings. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10035-10041.	2.6	66
117	{DOTA-bis(amide)}lanthanide Complexes: NMR Evidence for Differences in Water-Molecule Exchange Rates for Coordination Isomers. <i>Chemistry - A European Journal</i> , 2001, 7, 288-296.	3.3	65
118	Synthesis, Potentiometric, Kinetic, and NMR Studies of 1,4,7,10-Tetraazacyclododecane-1,7-bis(acetic) Tj ETQq0 0 0 rgBT /Overlock 10 T Lanthanide(III) Ions. <i>Inorganic Chemistry</i> , 2008, 47, 3851-3862.	4.0	65
119	In vivo MRI multicontrast kinetic analysis of the uptake and intracellular trafficking of paramagnetically labeled liposomes. <i>Journal of Controlled Release</i> , 2010, 144, 271-279.	9.9	64
120	Non-ionic Ln(III) chelates as MRI contrast agents: Synthesis, characterisation and ^1H NMR relaxometric investigations of bis(benzylamide)diethylenetriaminepentaacetic acid Lu(III) and Gd(III) complexes. <i>Inorganica Chimica Acta</i> , 1997, 254, 63-70.	2.4	63
121	A responsive MRI contrast agent to monitor functional cell status. <i>NeuroImage</i> , 2006, 32, 1142-1149.	4.2	63
122	Fast field-cycling magnetic resonance imaging. <i>Comptes Rendus Physique</i> , 2010, 11, 136-148.	0.9	63
123	Synthesis and NMRD studies of gadolinium(3+) complexes of macrocyclic polyamino polycarboxylic ligands bearing .beta.-benzyloxy-.alpha.-propionic residues. <i>Inorganic Chemistry</i> , 1992, 31, 1100-1103.	4.0	62
124	Towards Targeted MRI: New MRI Contrast Agents for Sialic Acid Detection. <i>Chemistry - A European Journal</i> , 2004, 10, 5205-5217.	3.3	62
125	High-Relaxivity Gadolinium-Modified High-Density Lipoproteins as Magnetic Resonance Imaging Contrast Agents. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6283-6289.	2.6	62
126	Nanoparticle-based chemical exchange saturation transfer (CEST) agents. <i>NMR in Biomedicine</i> , 2013, 26, 839-849.	2.8	62

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127	Preparation and in vitro characterization of chitosan nanobubbles as theranostic agents. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 129, 39-46.	5.0	62
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