

Mark Woods

List of Publications by Year in descending order

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53
papers

4,256
citations

185998

28
h-index

174990

52
g-index

54
all docs

54
docs citations

54
times ranked

3485
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-radiative deactivation of the excited states of europium, terbium and ytterbium complexes by proximate energy-matched OH, NH and CH oscillators: an improved luminescence method for establishing solution hydration states. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999, , 493-504.	0.9	1,263
2	Paramagnetic lanthanide complexes as PARACEST agents for medical imaging. <i>Chemical Society Reviews</i> , 2006, 35, 500.	18.7	369
3	Chemical Exchange Saturation Transfer Contrast Agents for Magnetic Resonance Imaging. <i>Annual Review of Biomedical Engineering</i> , 2008, 10, 391-411.	5.7	328
4	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.	6.6	267
5	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.	6.6	189
6	CEST and PARACEST MR contrast agents. <i>Acta Radiologica</i> , 2010, 51, 910-923.	0.5	123
7	Towards the Rational Design of Magnetic Resonance Imaging Contrast Agents: Isolation of the Two Coordination Isomers of Lanthanide DOTA-Type Complexes. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5889-5892.	7.2	105
8	Synthesis and Relaxometric Studies of a Dendrimer-Based pH-Responsive MRI Contrast Agent. <i>Chemistry - A European Journal</i> , 2008, 14, 7250-7258.	1.7	104
9	Modulation of Water Exchange in Europium(III) DOTA-Tetraamide Complexes via Electronic Substituent Effects. <i>Journal of the American Chemical Society</i> , 2008, 130, 6-7.	6.6	100
10	Properties, Solution State Behavior, and Crystal Structures of Chelates of DOTMA. <i>Inorganic Chemistry</i> , 2011, 50, 7955-7965.	1.9	86
11	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> , 2005, , 3829.	1.6	76
12	Imaging the extracellular pH of tumors by MRI after injection of a single cocktail of Gd^{3+} and Gd^{2+} contrast agents. <i>NMR in Biomedicine</i> , 2011, 24, 1380-1391.	1.6	73
13	Structure and dynamics of all of the stereoisomers of europium complexes of tetra(carboxyethyl) derivatives of dota: ring inversion is decoupled from cooperative arm rotation in the RRRR and RRRS isomers. <i>Chemical Communications</i> , 1998, , 1381-1382.	2.2	72
14	Targeted Complexes of Lanthanide(III) Ions as Therapeutic and Diagnostic Pharmaceuticals. <i>Journal of Supramolecular Chemistry</i> , 2002, 2, 1-15.	0.4	72
15	Solution Dynamics and Stability of Lanthanide(III) (S)-2-(p-Nitrobenzyl)DOTA Complexes. <i>Inorganic Chemistry</i> , 2004, 43, 2845-2851.	1.9	70
16	Polymeric PARACEST Agents for Enhancing MRI Contrast Sensitivity. <i>Journal of the American Chemical Society</i> , 2008, 130, 13854-13855.	6.6	69
17	Gadolinium Chelate Contrast Material in Pregnancy: Fetal Biodistribution in the Nonhuman Primate. <i>Radiology</i> , 2015, 276, 110-118.	3.6	63
18	Europium(III) Macrocyclic Complexes with Alcohol Pendant Groups as Chemical Exchange Saturation Transfer Agents. <i>Journal of the American Chemical Society</i> , 2006, 128, 10155-10162.	6.6	61

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19	pH-Sensitive Modulation of the Second Hydration Sphere in Lanthanide(III) Tetraamide-DOTA Complexes: A Novel Approach to Smart MR Contrast Media. <i>Chemistry - A European Journal</i> , 2003, 9, 4634-4640.	1.7	56
20	Synthesis and Luminescence Studies of Aryl Substituted Tetraamide Complexes of Europium(III): A New Approach to pH Responsive Luminescent Europium Probes. <i>Inorganic Chemistry</i> , 2003, 42, 4401-4408.	1.9	51
21	Analysis of the Conformational Behavior and Stability of the SAP and TSAP Isomers of Lanthanide(III) NB-DOTA-Type Chelates. <i>Inorganic Chemistry</i> , 2011, 50, 7966-7979.	1.9	48
22	Structural and Chiroptical Properties of the Two Coordination Isomers of YbDOTA-Type Complexes. <i>Inorganic Chemistry</i> , 2005, 44, 8391-8398.	1.9	47
23	A Bridge to Coordination Isomer Selection in Lanthanide(III) DOTA-tetraamide Complexes. <i>Inorganic Chemistry</i> , 2007, 46, 2584-2595.	1.9	39
24	Towards the Rational Design of MRI Contrast Agents: Electron Spin Relaxation Is Largely Unaffected by the Coordination Geometry of Gadolinium(III)-DOTA-Type Complexes. <i>Chemistry - A European Journal</i> , 2008, 14, 2658-2667.	1.7	39
25	Nanoassembled Capsules as Delivery Vehicles for Large Payloads of High Relaxivity Gd ³⁺ Agents. <i>Journal of the American Chemical Society</i> , 2009, 131, 15918-15923.	6.6	39
26	The Population of SAP and TSAP Isomers in Cyclen-Based Lanthanide(III) Chelates Is Substantially Affected by Solvent. <i>Inorganic Chemistry</i> , 2010, 49, 8662-8664.	1.9	34
27	Relative sensitivities of DCE-MRI pharmacokinetic parameters to arterial input function (AIF) scaling. <i>Journal of Magnetic Resonance</i> , 2016, 269, 104-112.	1.2	33
28	Coupling Fast Water Exchange to Slow Molecular Tumbling in Gd ³⁺ Chelates: Why Faster Is Not Always Better. <i>Inorganic Chemistry</i> , 2013, 52, 8436-8450.	1.9	31
29	Effect of the Regiochemistry of Butyl Amide Substituents on the Solution-State Structures of Lanthanide(III) DOTA-Tetraamide Complexes. <i>Inorganic Chemistry</i> , 2009, 48, 10338-10345.	1.9	28
30	Investigations into whole water, prototropic and amide proton exchange in lanthanide(III) DOTA-tetraamide chelates. <i>Dalton Transactions</i> , 2011, 40, 6759.	1.6	28
31	The Effect of the Amide Substituent on the Biodistribution and Tolerance of Lanthanide(III) DOTA-Tetraamide Derivatives. <i>Investigative Radiology</i> , 2008, 43, 861-870.	3.5	26
32	Spectral properties of a bifunctional PARACEST europium chelate: an intermediate for targeted imaging applications. <i>Contrast Media and Molecular Imaging</i> , 2007, 2, 55-58.	0.4	25
33	Human whole-blood ¹ H ₂ O longitudinal relaxation with normal and high-relaxivity contrast reagents: Influence of trans-cell membrane water exchange. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1746-1754.	1.9	25
34	Solid State and Solution Dynamics of Pyridine Based Tetraaza-Macrocyclic Lanthanide Chelates Possessing Phosphonate Ligating Functionality (Ln-PCTMB): Effect on Relaxometry and Optical Properties. <i>Inorganic Chemistry</i> , 2009, 48, 11767-11778.	1.9	21
35	Structural Analysis of Isomeric Europium(III) Chelates of NB-DOTMA. <i>Inorganic Chemistry</i> , 2012, 51, 8576-8582.	1.9	21
36	Polymeric PARACEST MRI contrast agents as potential reporters for gene therapy. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 5333.	1.5	20

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37	Crystal Structures of DOTMA Chelates from Ce ³⁺ to Yb ³⁺ : Evidence for a Continuum of Metal Ion Hydration States. <i>Chemistry - A European Journal</i> , 2019, 25, 9997-10005.	1.7	19
38	Towards the Rational Design of MRI Contrast Agents: ϵ -Substitution of Lanthanide(III) NB-DOTA-tetraamide Chelates Influences but Does Not Control Coordination Geometry. <i>Chemistry - A European Journal</i> , 2011, 17, 10372-10378.	1.7	18
39	Isomerism in Benzyl-DOTA Derived Bifunctional Chelators: Implications for Molecular Imaging. <i>Bioconjugate Chemistry</i> , 2015, 26, 338-344.	1.8	14
40	The Presence of Fast-Exchanging Proton Species in Aqueous Solutions of paraCEST Agents Can Impact Rate Constants Measured for Slower Exchanging Species When Fitting CEST Spectra to the Bloch Equations. <i>Inorganic Chemistry</i> , 2014, 53, 10012-10014.	1.9	11
41	The confluence of structure and dynamics in lanthanide(III) chelates: how dynamics help define structure in solution. <i>Dalton Transactions</i> , 2014, 43, 251-258.	1.6	10
42	The effect of regioisomerism on the coordination chemistry and CEST properties of lanthanide(III) NB-DOTA-tetraamide chelates. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 173-189.	1.1	8
43	Differences in the Relaxometric Properties of Regioisomeric Benzyl-DOTA Bifunctional Chelators: Implications for Molecular Imaging. <i>Bioconjugate Chemistry</i> , 2019, 30, 1530-1538.	1.8	8
44	Picture of a chelate in exchange: the crystal structure of NaHoDOTMA, a ϵ -semi-hydrated chelate. <i>Chemical Communications</i> , 2013, 49, 2320.	2.2	7
45	Aggregation in Amphiphilic Macrocyclic-Substituted Gd ³⁺ DOTA-Type Chelates Is Affected by the Regiochemistry of Substitution. <i>Inorganic Chemistry</i> , 2015, 54, 2085-2087.	1.9	7
46	Crosslinked shells for nano-assembled capsules: a new encapsulation method for smaller Gd ³⁺ -loaded capsules with exceedingly high relaxivities. <i>Chemical Communications</i> , 2017, 53, 6355-6358.	2.2	7
47	Analysis of the Relaxometric Properties of Extremely Rapidly Exchanging Gd ³⁺ Chelates: Lessons from a Comparison of Four Isomeric Chelates. <i>Inorganic Chemistry</i> , 2020, 59, 9037-9046.	1.9	7
48	Water Exchange Is the Key Parameter in the Design of Next-Generation MRI Agents. <i>ACS Symposium Series</i> , 2005, , 151-165.	0.5	5
49	On Water and its Effect on the Performance of T_1 -Shortening Contrast Agents. <i>Israel Journal of Chemistry</i> , 2017, 57, 880-886.	1.0	5
50	Nano assembly and encapsulation; a versatile platform for slowing the rotation of polyanionic Gd ³⁺ -based MRI contrast agents. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 154-159.	0.4	4
51	ParaCEST Agents Encapsulated in Reverse Nano-Assembled Capsules (RACs): How Slow Molecular Tumbling Can Quench CEST Contrast. <i>Frontiers in Chemistry</i> , 2018, 6, 96.	1.8	3
52	PARACEST Contrast Agents. , 2007, , 101-122.		3
53	Chemical Exchange Saturation Transfer Is Unaffected by Modest Changes in Pressure. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2040-2043.	1.0	0