Mark Woods

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9522549/publications.pdf

Version: 2024-02-01

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	Analysis of the Relaxometric Properties of Extremely Rapidly Exchanging Gd³⁺ Chelates: Lessons from a Comparison of Four Isomeric Chelates. Inorganic Chemistry, 2020, 59, 9037-9046.	1.9	7
2	Crystal Structures of DOTMA Chelates from Ce³⁺ to Yb³⁺: Evidence for a Continuum of Metal Ion Hydration States. Chemistry - A European Journal, 2019, 25, 9997-10005.	1.7	19
3	Differences in the Relaxometric Properties of Regioisomeric Benzyl-DOTA Bifunctional Chelators: Implications for Molecular Imaging. Bioconjugate Chemistry, 2019, 30, 1530-1538.	1.8	8
4	ParaCEST Agents Encapsulated in Reverse Nano-Assembled Capsules (RACs): How Slow Molecular Tumbling Can Quench CEST Contrast. Frontiers in Chemistry, 2018, 6, 96.	1.8	3
5	Crosslinked shells for nano-assembled capsules: a new encapsulation method for smaller Gd3+-loaded capsules with exceedingly high relaxivities. Chemical Communications, 2017, 53, 6355-6358.	2.2	7
6	On Water and its Effect on the Performance of T₁â€Shortening Contrast Agents. Israel Journal of Chemistry, 2017, 57, 880-886.	1.0	5
7	Nano assembly and encapsulation; a versatile platform for slowing the rotation of polyanionic Gd³⁺â€based MRI contrast agents. Contrast Media and Molecular Imaging, 2016, 11, 154-159.	0.4	4
8	Relative sensitivities of DCE-MRI pharmacokinetic parameters to arterial input function (AIF) scaling. Journal of Magnetic Resonance, 2016, 269, 104-112.	1.2	33
9	Aggregation in Amphiphilic Macrocycle-Substituted Gd³⁺ DOTA-Type Chelates Is Affected by the Regiochemistry of Substitution. Inorganic Chemistry, 2015, 54, 2085-2087.	1.9	7
10	Isomerism in Benzyl-DOTA Derived Bifunctional Chelators: Implications for Molecular Imaging. Bioconjugate Chemistry, 2015, 26, 338-344.	1.8	14
11	Gadolinium Chelate Contrast Material in Pregnancy: Fetal Biodistribution in the Nonhuman Primate. Radiology, 2015, 276, 110-118.	3.6	63
12	The confluence of structure and dynamics in lanthanide(iii) chelates: how dynamics help define structure in solution. Dalton Transactions, 2014, 43, 251-258.	1.6	10
13	The effect of regioisomerism on the coordination chemistry and CEST properties of lanthanide(III) NB-DOTA-tetraamide chelates. Journal of Biological Inorganic Chemistry, 2014, 19, 173-189.	1.1	8
14	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. Inorganic Chemistry, 2014, 53, 10012-10014.	1.9	11
15	Human wholeâ€blood ¹H₂O longitudinal relaxation with normal and highâ€relaxivity contrast reagents: Influence of transâ€cellâ€membrane water exchange. Magnetic Resonance in Medicine, 2014, 72, 1746-1754.	1.9	25
16	Coupling Fast Water Exchange to Slow Molecular Tumbling in Gd³⁺ Chelates: Why Faster Is Not Always Better. Inorganic Chemistry, 2013, 52, 8436-8450.	1.9	31
17	Picture of a chelate in exchange: the crystal structure of NaHoDOTMA, a â€˜semiâ€™-hydrated chelate. Chemical Communications, 2013, 49, 2320.	2.2	7
18	Structural Analysis of Isomeric Europium(III) Chelates of NB-DOTMA. Inorganic Chemistry, 2012, 51, 8576-8582.	1.9	21

#	Article	IF	Citations
19	Chemical Exchange Saturation Transfer Is Unaffected by Modest Changes in Pressure. European Journal of Inorganic Chemistry, 2012, 2012, 2040-2043.	1.0	0
20	Analysis of the Conformational Behavior and Stability of the SAP and TSAP Isomers of Lanthanide(III) NB-DOTA-Type Chelates. Inorganic Chemistry, 2011, 50, 7966-7979.	1.9	48
21	Properties, Solution State Behavior, and Crystal Structures of Chelates of DOTMA. Inorganic Chemistry, 2011, 50, 7955-7965.	1.9	86
22	Investigations into whole water, prototropic and amide proton exchange in lanthanide(iii) DOTA-tetraamide chelates. Dalton Transactions, 2011, 40, 6759.	1.6	28
23	Imaging the extracellular pH of tumors by MRI after injection of a single cocktail of T₁ and T₂ contrast agents. NMR in Biomedicine, 2011, 24, 1380-1391.	1.6	73
24	Towards the Rational Design of MRI Contrast Agents: Î´â€Substitution of Lanthanide(III) NBâ€DOTAâ€Tetraamide Chelates Influences but Does Not Control Coordination Geometry. Chemistry - A European Journal, 2011, 17, 10372-10378.	1.7	18
25	The Population of SAP and TSAP Isomers in Cyclen-Based Lanthanide(III) Chelates Is Substantially Affected by Solvent. Inorganic Chemistry, 2010, 49, 8662-8664.	1.9	34
26	Polymeric PARACEST MRI contrast agents as potential reporters for gene therapy. Organic and Biomolecular Chemistry, 2010, 8, 5333.	1.5	20
27	CEST and PARACEST MR contrast agents. Acta Radiologica, 2010, 51, 910-923.	0.5	123
28	Effect of the Regiochemistry of Butyl Amide Substituents on the Solution-State Structures of Lanthanide(III) DOTA-Tetraamide Complexes. Inorganic Chemistry, 2009, 48, 10338-10345.	1.9	28
29	Solid State and Solution Dynamics of Pyridine Based Tetraaza-Macrocyclic Lanthanide Chelates Possessing Phosphonate Ligating Functionality (Ln-PCTMB): Effect on Relaxometry and Optical Properties. Inorganic Chemistry, 2009, 48, 11767-11778.	1.9	21
30	Nanoassembled Capsules as Delivery Vehicles for Large Payloads of High Relaxivity Gd3+ Agents. Journal of the American Chemical Society, 2009, 131, 15918-15923.	6.6	39
31	Towards the Rational Design of MRI Contrast Agents: Electron Spin Relaxation Is Largely Unaffected by the Coordination Geometry of Gadolinium(III)â€“DOTAâ€Type Complexes. Chemistry - A European Journal, 2008, 14, 2658-2667.	1.7	39
32	Chemical Exchange Saturation Transfer Contrast Agents for Magnetic Resonance Imaging. Annual Review of Biomedical Engineering, 2008, 10, 391-411.	5.7	328
33	Modulation of Water Exchange in Europium(III) DOTAâ€Tetraamide Complexes via Electronic Substituent Effects. Journal of the American Chemical Society, 2008, 130, 6-7.	6.6	100
34	Synthesis and Relaxometric Studies of a Dendrimerâ€Based pHâ€Responsive MRI Contrast Agent. Chemistry - A European Journal, 2008, 14, 7250-7258.	1.7	104
35	Polymeric PARACEST Agents for Enhancing MRI Contrast Sensitivity. Journal of the American Chemical Society, 2008, 130, 13854-13855.	6.6	69
36	The Effect of the Amide Substituent on the Biodistribution and Tolerance of Lanthanide(III) DOTA-Tetraamide Derivatives. Investigative Radiology, 2008, 43, 861-870.	3.5	26

#	Article	IF	Citations
37	A Bridge to Coordination Isomer Selection in Lanthanide(III) DOTA-tetraamide Complexes. Inorganic Chemistry, 2007, 46, 2584-2595.	1.9	39
38	Spectral properties of a bifunctional PARACEST europium chelate: an intermediate for targeted imaging applications. Contrast Media and Molecular Imaging, 2007, 2, 55-58.	0.4	25
39	PARACEST Contrast Agents. , 2007, , 101-122.		3
40	Paramagnetic lanthanide complexes as PARACEST agents for medical imaging. Chemical Society Reviews, 2006, 35, 500.	18.7	369
41	Europium(III) Macrocyclic Complexes with Alcohol Pendant Groups as Chemical Exchange Saturation Transfer Agents. Journal of the American Chemical Society, 2006, 128, 10155-10162.	6.6	61
42	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.	1.6	76
43	Structural and Chiroptical Properties of the Two Coordination Isomers of YbDOTA-Type Complexes. Inorganic Chemistry, 2005, 44, 8391-8398.	1.9	47
44	Water Exchange Is the Key Parameter in the Design of Next-Generation MRI Agents. ACS Symposium Series, 2005, , 151-165.	0.5	5
45	Solution Dynamics and Stability of Lanthanide(III) (S)-2-(p-Nitrobenzyl)DOTA Complexes. Inorganic Chemistry, 2004, 43, 2845-2851.	1.9	70
46	pH-Sensitive Modulation of the Second Hydration Sphere in Lanthanide(III) Tetraamide-DOTA Complexes: A Novel Approach to Smart MR Contrast Media. Chemistry - A European Journal, 2003, 9, 4634-4640.	1.7	56
47	Towards the Rational Design of Magnetic Resonance Imaging Contrast Agents: Isolation of the Two Coordination Isomers of Lanthanide DOTA-Type Complexes. Angewandte Chemie - International Edition, 2003, 42, 5889-5892.	7.2	105
48	Synthesis and Luminescence Studies of Aryl Substituted Tetraamide Complexes of Europium(III):â€‰ A New Approach to pH Responsive Luminescent Europium Probes. Inorganic Chemistry, 2003, 42, 4401-4408.	1.9	51
49	Targeted Complexes of Lanthanide(III) Ions as Therapeutic and Diagnostic Pharmaceuticals. Journal of Supramolecular Chemistry, 2002, 2, 1-15.	0.4	72
50	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.	6.6	189
51	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.	6.6	267
52	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. Journal of the Chemical Society Perkin Transactions II, 1999, , 493-504.	0.9	1,263
53	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. Chemical Communications, 1998, , 1381-1382.	2.2	72