Daniela Delli Castelli

List of Publications by Year
in descending order

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Version: 2024-02-01

66 papers	4,383 citations	136885 32 h-index	102432 66 g-index
74 all docs	74 docs citations	74 times ranked	3746 citing authors

#	Article	IF	Citations
1	Challenges for Molecular Magnetic Resonance Imaging. Chemical Reviews, 2010, 110, 3019-3042.	23.0	728
2	Paramagnetic Lanthanide(III) complexes as pH-sensitive chemical exchange saturation transfer (CEST) contrast agents for MRI applications. Magnetic Resonance in Medicine, 2002, 47, 639-648.	1.9	365
3	Pushing the Sensitivity Envelope of Lanthanide-Based Magnetic Resonance Imaging (MRI) Contrast Agents for Molecular Imaging Applications. Accounts of Chemical Research, 2009, 42, 822-831.	7.6	327
4	Novel pH-Reporter MRI Contrast Agents. Angewandte Chemie - International Edition, 2002, 41, 4334-4336.	7.2	198
5	Highly Sensitive MRI Chemical Exchange Saturation Transfer Agents Using Liposomes. Angewandte Chemie - International Edition, 2005, 44, 5513-5515.	7.2	185
6	A Paramagnetic MRI-CEST Agent Responsive to Lactate Concentration. Journal of the American Chemical Society, 2002, 124, 9364-9365.	6.6	182
7	Tunable Imaging of Cells Labeled with MRI-PARACEST Agents. Angewandte Chemie - International Edition, 2005, 44, 1813-1815.	7.2	170
8	Metal containing nanosized systems for MR-Molecular Imaging applications. Coordination Chemistry Reviews, 2008, 252, 2424-2443.	9.5	116
9	Encoding the frequency dependence in MRI contrast media: the emerging class of CEST agents. Contrast Media and Molecular Imaging, 2010, 5, 78-98.	0.4	113
10	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. Investigative Radiology, 2004, 39, 235-243.	3.5	112
11	Yb^{III}â€HPDO3A: A Dual pHâ€and Temperatureâ€Responsive CEST Agent. Angewandte Chemie - International Edition, 2011, 50, 1798-1800.	7.2	103
12	Development and validation of a smoothingâ€splinesâ€based correction method for improving the analysis of CESTâ€MR images. Contrast Media and Molecular Imaging, 2008, 3, 136-149.	0.4	102
13	In vivo maps of extracellular pH in murine melanoma by CESTâ€“MRI. Magnetic Resonance in Medicine, 2014, 71, 326-332.	1.9	98
14	From Spherical to Osmotically Shrunken Paramagnetic Liposomes: An Improved Generation of LIPOCEST MRI Agents with Highly Shifted Water Protons. Angewandte Chemie - International Edition, 2007, 46, 966-968.	7.2	87
15	Gd-Loaded Liposomes asT1, Susceptibility, and CEST Agents, All in One. Journal of the American Chemical Society, 2007, 129, 2430-2431.	6.6	83
16	Paramagnetic Liposomes as Innovative Contrast Agents for Magnetic Resonance (MR) Molecular Imaging Applications. Chemistry and Biodiversity, 2008, 5, 1901-1912.	1.0	76
17	Supramolecular Adducts between Poly-L-arginine and[TmIIIdotp]: A Route to Sensitivity-Enhanced Magnetic Resonance Imagingâ€“Chemical Exchange Saturation Transfer Agents. Angewandte Chemie - International Edition, 2003, 42, 4527-4529.	7.2	74
18	Determination of water permeability of paramagnetic liposomes of interest in MRI field. Journal of Inorganic Biochemistry, 2008, 102, 1112-1119.	1.5	70

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19	In vivo MRI multicontrast kinetic analysis of the uptake and intracellular trafficking of paramagnetically labeled liposomes. Journal of Controlled Release, 2010, 144, 271-279.	4.8	64
20	Nanoparticleâ€based chemical exchange saturation transfer (CEST) agents. NMR in Biomedicine, 2013, 26, 839-849.	1.6	62
21	In vivo MRI visualization of different cell populations labeled with PARACEST agents. Magnetic Resonance in Medicine, 2013, 69, 1703-1711.	1.9	58
22	Methods for an improved detection of the MRIâ€CEST effect. Contrast Media and Molecular Imaging, 2009, 4, 237-247.	0.4	54
23	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.	1.9	52
24	Sonosensitive theranostic liposomes for preclinical in vivo MRI-guided visualization of doxorubicin release stimulated by pulsed low intensity non-focused ultrasound. Journal of Controlled Release, 2015, 202, 21-30.	4.8	52
25	Osmotically Shrunken LIPOCEST Agents: An Innovative Class of Magnetic Resonance Imaging Contrast Media Based on Chemical Exchange Saturation Transfer. Chemistry - A European Journal, 2009, 15, 1440-1448.	1.7	50
26	Novel pH-Reporter MRI Contrast Agents. Angewandte Chemie, 2002, 114, 4510-4512.	1.6	49
27	Advances in Metal-Based Probes for MR Molecular Imaging Applications. Current Medicinal Chemistry, 2010, 17, 3684-3700.	1.2	47
28	Lanthanide-Loaded Erythrocytes As Highly Sensitive Chemical Exchange Saturation Transfer MRI Contrast Agents. Journal of the American Chemical Society, 2014, 136, 638-641.	6.6	47
29	First exâ€vivo MRI coâ€localization of two LIPOCEST agents. Contrast Media and Molecular Imaging, 2008, 3, 38-43.	0.4	46
30	LipoCEST and cellCEST imaging agents: opportunities and challenges. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 602-618.	3.3	40
31	Highly shifted LIPOCEST agents based on the encapsulation of neutral polynuclear paramagnetic shift reagents. Chemical Communications, 2008, , 600-602.	2.2	38
32	Evidence for in vivo macrophage mediated tumor uptake of paramagnetic/fluorescent liposomes. NMR in Biomedicine, 2009, 22, 1084-1092.	1.6	36
33	Gadolinium-doped LipoCEST agents: a potential novel class of dual 1H-MRI probes. Chemical Communications, 2011, 47, 4667.	2.2	31
34	Highly Shifted Proton MR Imaging: Cell Tracking by Using Direct Detection of Paramagnetic Compounds. Radiology, 2014, 272, 785-795.	3.6	30
35	Cardio-Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Reveals Molecular Signatures of Endogenous Fibrosis and Exogenous Contrast Media. Circulation: Cardiovascular Imaging, 2015, 8, .	1.3	27
36	Lanthanide-Loaded Paramagnetic Liposomes as Switchable Magnetically Oriented Nanovesicles. Inorganic Chemistry, 2008, 47, 2928-2930.	1.9	26

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37	Block copolymer vesicles containing paramagnetic lanthanide complexes: a novel class of T1- and CEST MRI contrast agents. Soft Matter, 2010, 6, 4847.	1.2	24
38	Exploiting the Proton Exchange as an Additional Route to Enhance the Relaxivity of Paramagnetic MRI Contrast Agents. Inorganic Chemistry, 2018, 57, 5567-5574.	1.9	23
39	Successful Entrapping of Liposomes in Glucan Particles: An Innovative Micron-Sized Carrier to Deliver Water-Soluble Molecules. Molecular Pharmaceutics, 2014, 11, 3760-3765.	2.3	22
40	Lanthanide-Loaded Paramagnetic Liposomes as Switchable Magnetically Oriented Nanovesicles. Methods in Enzymology, 2009, 464, 193-210.	0.4	21
41	Design and testing of paramagnetic liposome-based CEST agents for MRI visualization of payload release on pH-induced and ultrasound stimulation. Journal of Biological Inorganic Chemistry, 2014, 19, 207-214.	1.1	20
42	<scp>MRI</scp><scp>CEST</scp> at 1<scp>T</scp> with large Âµ_{eff}<scp>L</scp>n³⁺ complexes <scp>T</scp> m³⁺â€<scp>HPDO</scp>3<scp>A</scp>: An efficient <scp>MRI</scp> p<scp>H</scp> reporter. Magnetic Resonance in Medicine, 2016, 75, 329-336.	1.9	19
43	In vivo MRI visualization of release from liposomes triggered by local application of pulsed low-intensity non-focused ultrasound. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, e901-e904.	1.7	18
44	Combined NMR, DFT and X-ray studies highlight structural and hydration changes of [Ln(AAZTA)]^{â^'} complexes across the series. Inorganic Chemistry Frontiers, 2020, 7, 795-803.	3.0	16
45	CESTâ€MRI studies of cells loaded with lanthanide shift reagents. Magnetic Resonance in Medicine, 2018, 80, 1626-1637.	1.9	15
46	Release of a Paramagnetic Magnetic Resonance Imaging Agent from Liposomes Triggered by Low Intensity Non-Focused Ultrasound. Journal of Medical Imaging and Health Informatics, 2013, 3, 356-366.	0.2	14
47	Sensitive MRI detection of internalizedT₁contrast agents using magnetization transfer contrast. NMR in Biomedicine, 2015, 28, 1663-1670.	1.6	11
48	[Yb(AAZTA)(H₂O)]^{â^'}: an unconventional ParaCEST MRI probe. Chemical Communications, 2018, 54, 2004-2007.	2.2	11
49	Modulation of the Prototropic Exchange Rate in pHâ€Responsive Ybâ€HPDO3A Derivatives as ParaCEST Agents. ChemistrySelect, 2018, 3, 6035-6041.	0.7	11
50	Regenerative Approaches and Future Trends for the Treatment of Corneal Burn Injuries. Journal of Clinical Medicine, 2021, 10, 317.	1.0	10
51	Prospects and limitations of paramagnetic chemical exchange saturation transfer agents serving as biological reporters in vivo. NMR in Biomedicine, 2023, 36, e4698.	1.6	10
52	Modifying LnHPDO3A Chelates for Improved T₁ and CEST MRI Applications. Chemistry - A European Journal, 2019, 25, 4184-4193.	1.7	8
53	Detection of U-87 Tumor Cells by RGD-Functionalized/Gd-Containing Giant Unilamellar Vesicles in Magnetization Transfer Contrast Magnetic Resonance Images. Investigative Radiology, 2021, 56, 301-312.	3.5	8
54	Supramolecular Adducts of Negatively Charged Lanthanide(III) DOTP Chelates and Cyclodextrins Functionalized with Ammonium Groups: Mass Spectrometry and Nuclear Magnetic Resonance Studies. European Journal of Inorganic Chemistry, 2012, 2012, 2087-2098.	1.0	6

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55	Polymeric Vesicles Loaded with Gadoteridol as Reversible and Concentration-Independent Magnetic Resonance Imaging Thermometers. Journal of Biomedical Nanotechnology, 2014, 10, 1620-1626.	0.5	6
56	Asparagine in plums detected by CESTâ€“MRI. Food Chemistry, 2015, 169, 1-4.	4.2	6
57	Development and characterization of lanthanide-HPDO3A-C16-based micelles as CEST-MRI contrast agents. Dalton Transactions, 2019, 48, 5343-5351.	1.6	6
58	Multilamellar LipoCEST Agents Obtained from Osmotic Shrinkage of Paramagnetically Loaded Giant Unilamellar Vescicles (GUVs). Angewandte Chemie - International Edition, 2020, 59, 2279-2283.	7.2	5
59	Relaxometric Studies of Gd-Chelate Conjugated on the Surface of Differently Shaped Gold Nanoparticles. Nanomaterials, 2020, 10, 1115.	1.9	4
60	MRI Contrast Agents: State of the Art and New Trends. , 2011, , 223-251.		2
61	MRI. , 2017, , 227-324.		2
62	Multilamellar LipoCEST Agents Obtained from Osmotic Shrinkage of Paramagnetically Loaded Giant Unilamellar Vescicles (GUVs). Angewandte Chemie, 2020, 132, 2299-2303.	1.6	2
63	Unfolding of the loggerhead sea turtle (Caretta caretta) myoglobin: A 1H-NMR and electronic absorbance study. Protein Science, 2009, 11, 2273-2278.	3.1	1
64	LipHosomes: Reporters for Ligand/Antiâ€Ligand Assays Based On pH Readout. Analysis & Sensing, 2021, 1, 48-53.	1.1	1
65	Chapter 14 Saturating CompartmentalizedWater Protons: Liposome- and Cell-Based CEST Agents. , 2017, , 311-344.		1
66	MR Contrast Agents. , 2011, , 165-193.		0