

# Daniela Delli Castelli

## List of Publications by Year in descending order

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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	Prospects and limitations of paramagnetic chemical exchange saturation transfer agents serving as biological reporters in vivo. <i>NMR in Biomedicine</i> , 2023, 36, e4698.	1.6	10
2	LipHosomes: Reporters for Ligand/Anti-Ligand Assays Based On pH Readout. <i>Analysis &amp; Sensing</i> , 2021, 1, 48-53.	1.1	1
3	Regenerative Approaches and Future Trends for the Treatment of Corneal Burn Injuries. <i>Journal of Clinical Medicine</i> , 2021, 10, 317.	1.0	10
4	Detection of U-87 Tumor Cells by RGD-Functionalized/Gd-Containing Giant Unilamellar Vesicles in Magnetization Transfer Contrast Magnetic Resonance Images. <i>Investigative Radiology</i> , 2021, 56, 301-312.	3.5	8
5	Combined NMR, DFT and X-ray studies highlight structural and hydration changes of [Ln(AAZTA)] <sup>3+</sup> complexes across the series. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 795-803.	3.0	16
6	Multilamellar LipoCEST Agents Obtained from Osmotic Shrinkage of Paramagnetically Loaded Giant Unilamellar Vesicles (GUVs). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2279-2283.	7.2	5
7	Relaxometric Studies of Gd-Chelate Conjugated on the Surface of Differently Shaped Gold Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 1115.	1.9	4
8	Multilamellar LipoCEST Agents Obtained from Osmotic Shrinkage of Paramagnetically Loaded Giant Unilamellar Vesicles (GUVs). <i>Angewandte Chemie</i> , 2020, 132, 2299-2303.	1.6	2
9	Development and characterization of lanthanide-HPDO3A-C16-based micelles as CEST-MRI contrast agents. <i>Dalton Transactions</i> , 2019, 48, 5343-5351.	1.6	6
10	Modifying LnHPDO3A Chelates for Improved <i>T<sub>1</sub></i> and CEST MRI Applications. <i>Chemistry - A European Journal</i> , 2019, 25, 4184-4193.	1.7	8
11	CEST-MRI studies of cells loaded with lanthanide shift reagents. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1626-1637.	1.9	15
12	Exploiting the Proton Exchange as an Additional Route to Enhance the Relaxivity of Paramagnetic MRI Contrast Agents. <i>Inorganic Chemistry</i> , 2018, 57, 5567-5574.	1.9	23
13	[Yb(AAZTA)(H <sub>2</sub> O)] <sup>2+</sup> : an unconventional ParaCEST MRI probe. <i>Chemical Communications</i> , 2018, 54, 2004-2007.	2.2	11
14	Modulation of the Prototropic Exchange Rate in pH-Responsive Yb-HPDO3A Derivatives as ParaCEST Agents. <i>ChemistrySelect</i> , 2018, 3, 6035-6041.	0.7	11
15	MRI. , 2017, , 227-324.		2
16	Chapter 14 Saturating Compartmentalized Water Protons: Liposome- and Cell-Based CEST Agents. , 2017, , 311-344.		1
17	LipoCEST and cellCEST imaging agents: opportunities and challenges. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016, 8, 602-618.	3.3	40
18	MRI-CEST at <i>T<sub>1</sub></i> with large $\Delta\mu_{\text{eff}}L^n$ complexes <i>T<sub>1</sub></i> m <sup>3+</sup> -HPDO <sub>3</sub> A: An efficient MRI pH reporter. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 329-336.	1.9	19

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19	Sensitive MRI detection of internalized $T_1$ contrast agents using magnetization transfer contrast. <i>NMR in Biomedicine</i> , 2015, 28, 1663-1670.	1.6	11
20	Sonosensitive theranostic liposomes for preclinical in vivo MRI-guided visualization of doxorubicin release stimulated by pulsed low intensity non-focused ultrasound. <i>Journal of Controlled Release</i> , 2015, 202, 21-30.	4.8	52
21	Cardio-Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Reveals Molecular Signatures of Endogenous Fibrosis and Exogenous Contrast Media. <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, .	1.3	27
22	Asparagine in plums detected by CEST MRI. <i>Food Chemistry</i> , 2015, 169, 1-4.	4.2	6
23	Polymeric Vesicles Loaded with Gadoteridol as Reversible and Concentration-Independent Magnetic Resonance Imaging Thermometers. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 1620-1626.	0.5	6
24	Highly Shifted Proton MR Imaging: Cell Tracking by Using Direct Detection of Paramagnetic Compounds. <i>Radiology</i> , 2014, 272, 785-795.	3.6	30
25	Design and testing of paramagnetic liposome-based CEST agents for MRI visualization of payload release on pH-induced and ultrasound stimulation. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 207-214.	1.1	20
26	Lanthanide-Loaded Erythrocytes As Highly Sensitive Chemical Exchange Saturation Transfer MRI Contrast Agents. <i>Journal of the American Chemical Society</i> , 2014, 136, 638-641.	6.6	47
27	Successful Entrapping of Liposomes in Glucan Particles: An Innovative Micron-Sized Carrier to Deliver Water-Soluble Molecules. <i>Molecular Pharmaceutics</i> , 2014, 11, 3760-3765.	2.3	22
28	In vivo MRI visualization of release from liposomes triggered by local application of pulsed low-intensity non-focused ultrasound. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, e901-e904.	1.7	18
29	In vivo maps of extracellular pH in murine melanoma by CEST MRI. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 326-332.	1.9	98
30	In vivo MRI visualization of different cell populations labeled with PARACEST agents. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1703-1711.	1.9	58
31	Nanoparticle-based chemical exchange saturation transfer (CEST) agents. <i>NMR in Biomedicine</i> , 2013, 26, 839-849.	1.6	62
32	Combined High Resolution NMR and $^1H$ and $^{17}O$ Relaxometric Study Sheds Light on the Solution Structure and Dynamics of the Lanthanide(III) Complexes of HPDO3A. <i>Inorganic Chemistry</i> , 2013, 52, 7130-7138.	1.9	52
33	Release of a Paramagnetic Magnetic Resonance Imaging Agent from Liposomes Triggered by Low Intensity Non-Focused Ultrasound. <i>Journal of Medical Imaging and Health Informatics</i> , 2013, 3, 356-366.	0.2	14
34	Supramolecular Adducts of Negatively Charged Lanthanide(III) DTP Chelates and Cyclodextrins Functionalized with Ammonium Groups: Mass Spectrometry and Nuclear Magnetic Resonance Studies. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2087-2098.	1.0	6
35	Gadolinium-doped LipoCEST agents: a potential novel class of dual $^1H$ -MRI probes. <i>Chemical Communications</i> , 2011, 47, 4667.	2.2	31
36	MRI Contrast Agents: State of the Art and New Trends. , 2011, , 223-251.		2

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37	Yb <sup>III</sup> -HPDO3A: A Dual pH- and Temperature-Responsive CEST Agent. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1798-1800.	7.2	103
38	MR Contrast Agents. , 2011, , 165-193.		0
39	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.	4.8	64
40	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.	0.4	113
41	Advances in Metal-Based Probes for MR Molecular Imaging Applications. <i>Current Medicinal Chemistry</i> , 2010, 17, 3684-3700.	1.2	47
42	Block copolymer vesicles containing paramagnetic lanthanide complexes: a novel class of T1- and CEST MRI contrast agents. <i>Soft Matter</i> , 2010, 6, 4847.	1.2	24
43	Challenges for Molecular Magnetic Resonance Imaging. <i>Chemical Reviews</i> , 2010, 110, 3019-3042.	23.0	728
44	Osmotically Shrunken LIPOCEST Agents: An Innovative Class of Magnetic Resonance Imaging Contrast Media Based on Chemical Exchange Saturation Transfer. <i>Chemistry - A European Journal</i> , 2009, 15, 1440-1448.	1.7	50
45	Methods for an improved detection of the MRI-CEST effect. <i>Contrast Media and Molecular Imaging</i> , 2009, 4, 237-247.	0.4	54
46	Evidence for <i>in vivo</i> macrophage mediated tumor uptake of paramagnetic/fluorescent liposomes. <i>NMR in Biomedicine</i> , 2009, 22, 1084-1092.	1.6	36
47	Unfolding of the loggerhead sea turtle ( <i>Caretta caretta</i> ) myoglobin: A 1H-NMR and electronic absorbance study. <i>Protein Science</i> , 2009, 11, 2273-2278.	3.1	1
48	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.	7.6	327
49	Lanthanide-Loaded Paramagnetic Liposomes as Switchable Magnetically Oriented Nanovesicles. <i>Methods in Enzymology</i> , 2009, 464, 193-210.	0.4	21
50	First <i>ex vivo</i> MRI co-localization of two LIPOCEST agents. <i>Contrast Media and Molecular Imaging</i> , 2008, 3, 38-43.	0.4	46
51	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.	0.4	102
52	Paramagnetic Liposomes as Innovative Contrast Agents for Magnetic Resonance (MR) Molecular Imaging Applications. <i>Chemistry and Biodiversity</i> , 2008, 5, 1901-1912.	1.0	76
53	Determination of water permeability of paramagnetic liposomes of interest in MRI field. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 1112-1119.	1.5	70
54	Metal containing nanosized systems for MR-Molecular Imaging applications. <i>Coordination Chemistry Reviews</i> , 2008, 252, 2424-2443.	9.5	116

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55	Lanthanide-Loaded Paramagnetic Liposomes as Switchable Magnetically Oriented Nanovesicles. <i>Inorganic Chemistry</i> , 2008, 47, 2928-2930.	1.9	26
56	Highly shifted LIPOCEST agents based on the encapsulation of neutral polynuclear paramagnetic shift reagents. <i>Chemical Communications</i> , 2008, , 600-602.	2.2	38
57	Gd-Loaded Liposomes as T1, Susceptibility, and CEST Agents, All in One. <i>Journal of the American Chemical Society</i> , 2007, 129, 2430-2431.	6.6	83
58	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.	7.2	87
59	Tunable Imaging of Cells Labeled with MRI-PARACEST Agents. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1813-1815.	7.2	170
60	Highly Sensitive MRI Chemical Exchange Saturation Transfer Agents Using Liposomes. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5513-5515.	7.2	185
61	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.	3.5	112
62	Supramolecular Adducts between Poly-L-arginine and [TmIII]dotp]: A Route to Sensitivity-Enhanced Magnetic Resonance Imagingâ€“Chemical Exchange Saturation Transfer Agents. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4527-4529.	7.2	74
63	A Paramagnetic MRI-CEST Agent Responsive to Lactate Concentration. <i>Journal of the American Chemical Society</i> , 2002, 124, 9364-9365.	6.6	182
64	Novel pH-Reporter MRI Contrast Agents. <i>Angewandte Chemie</i> , 2002, 114, 4510-4512.	1.6	49
65	Novel pH-Reporter MRI Contrast Agents. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4334-4336.	7.2	198
66	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.	1.9	365