

# Andre F Martins

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,055  
citations

393982

19  
h-index

433756

31  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1480  
citing authors

#	ARTICLE	IF	CITATIONS
1	Basic MR relaxation mechanisms and contrast agent design. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 545-565.	1.9	139
2	Amplifying the Sensitivity of Zinc(II) Responsive MRI Contrast Agents by Altering Water Exchange Rates. <i>Journal of the American Chemical Society</i> , 2015, 137, 14173-14179.	6.6	67
3	Imaging Insulin Secretion from Mouse Pancreas by MRI Is Improved by Use of a Zinc-Responsive MRI Sensor with Lower Affinity for Zn <sup>2+</sup> Ions. <i>Journal of the American Chemical Society</i> , 2018, 140, 17456-17464.	6.6	61
4	PiB-Conjugated, Metal-Based Imaging Probes: Multimodal Approaches for the Visualization of $\beta$ -Amyloid Plaques. <i>ACS Medicinal Chemistry Letters</i> , 2013, 4, 436-440.	1.3	48
5	A gallium complex with a new tripodal tris-hydroxypyridinone for potential nuclear diagnostic imaging: solution and in vivo studies of <sup>67</sup> Ga-labeled species. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 31-38.	1.5	47
6	Gd <sup>3+</sup> complexes conjugated to Pittsburgh compound B: potential MRI markers of $\beta$ -amyloid plaques. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 281-295.	1.1	42
7	Nitroxyl Modified Tobacco Mosaic Virus as a Metal-Free High-Relaxivity MRI and EPR Active Superoxide Sensor. <i>Molecular Pharmaceutics</i> , 2018, 15, 2973-2983.	2.3	39
8	A Single-Pot Template Reaction Towards a Manganese-Based $T_1$ Contrast Agent. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10736-10744.	7.2	38
9	Gd(DO3A-N $\beta$ -aminopropionate): a versatile and easily available synthon with optimized water exchange for the synthesis of high relaxivity, targeted MRI contrast agents. <i>Chemical Communications</i> , 2009, , 6475.	2.2	37
10	A Responsive Magnetic Resonance Imaging Contrast Agent for Detection of Excess Copper(II) in the Liver <i>In Vivo</i> . <i>Journal of the American Chemical Society</i> , 2019, 141, 11009-11018.	6.6	33
11	A biophysical approach to menadione membrane interactions: Relevance for menadione-induced mitochondria dysfunction and related deleterious/therapeutic effects. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1899-1908.	1.4	30
12	A Bis(pyridine $N$ -oxide) Analogue of DOTA: Relaxometric Properties of the Gd <sup>III</sup> Complex and Efficient Sensitization of Visible and NIR-Emitting Lanthanide(III) Cations Including Pr <sup>III</sup> and Ho <sup>III</sup> . <i>Chemistry - A European Journal</i> , 2014, 20, 14834-14845.	1.7	29
13	New tris-3,4-HOPO lanthanide complexes as potential imaging probes: complex stability and magnetic properties. <i>Dalton Transactions</i> , 2013, 42, 6046.	1.6	28
14	Interaction of PiB-Derivative Metal Complexes with $\beta$ -Amyloid Peptides: Selective Recognition of the Aggregated Forms. <i>Chemistry - A European Journal</i> , 2015, 21, 5413-5422.	1.7	28
15	Breaking the Barrier to Slow Water Exchange Rates for Optimal Magnetic Resonance Detection of paraCEST Agents. <i>Inorganic Chemistry</i> , 2016, 55, 3007-3014.	1.9	28
16	Enantiomeric Recognition of <i>d</i> - and <i>l</i> -Lactate by CEST with the Aid of a Paramagnetic Shift Reagent. <i>Journal of the American Chemical Society</i> , 2017, 139, 17431-17437.	6.6	26
17	Imaging Extracellular Lactate In Vitro and In Vivo Using CEST MRI and a Paramagnetic Shift Reagent. <i>Chemistry - A European Journal</i> , 2017, 23, 1752-1756.	1.7	25
18	Nimesulide interaction with membrane model systems: Are membrane physical effects involved in nimesulide mitochondrial toxicity?. <i>Toxicology in Vitro</i> , 2011, 25, 1215-1223.	1.1	22

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19	Spectroscopic, radiochemical, and theoretical studies of the Ga <sup>3+</sup> -N-(2-hydroxyethyl)piperazine-2-ethanesulfonic acid (HEPES buffer) system: evidence for the formation of Ga <sup>3+</sup> -HEPES complexes in <sup>68</sup> Ga labeling reactions. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 265-273.	0.4	21
20	Lanthanide-Based $^{225}\text{Ac}$ and CEST Complexes Provide Insights into the Design of pH Sensitive MRI Agents. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16626-16630.	7.2	20
21	Associating a negatively charged GdDOTA-derivative to the Pittsburgh compound B for targeting A $\beta$ amyloid aggregates. <i>Journal of Biological Inorganic Chemistry</i> , 2016, 21, 83-99.	1.1	19
22	Lanthanide chelates of (bis)-hydroxymethyl-substituted DTTA with potential application as contrast agents in magnetic resonance imaging. <i>Dalton Transactions</i> , 2009, , 4656.	1.6	18
23	Unexpected Changes in the Population of Coordination Isomers for the Lanthanide Ion Complexes of DOTMA "Tetraglycinate". <i>Inorganic Chemistry</i> , 2016, 55, 9297-9305.	1.9	18
24	Manganese(II)-Based Responsive Contrast Agent Detects Glucose-Stimulated Zinc Secretion from the Mouse Pancreas and Prostate by MRI. <i>Inorganic Chemistry</i> , 2021, 60, 2168-2177.	1.9	18
25	Interaction of carbonylcyanide p-trifluoromethoxyphenylhydrazone (FCCP) with lipid membrane systems: a biophysical approach with relevance to mitochondrial uncoupling. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 287-298.	1.0	17
26	Impact of Ho <sup>3+</sup> -doping on <sup>13</sup> C dynamic nuclear polarization using trityl OX063 free radical. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21351-21359.	1.3	16
27	Gallium-68 Complexes Conjugated to Pittsburgh Compound B: Radiolabeling and Biological Evaluation. <i>Molecular Imaging and Biology</i> , 2016, 18, 334-343.	1.3	16
28	Zinc as an Imaging Biomarker of Prostate Cancer. <i>Israel Journal of Chemistry</i> , 2017, 57, 854-861.	1.0	16
29	Ln[DO3A-N $\beta$ -(pyrenebutanamido)propionate] complexes: optimized relaxivity and NIR optical properties. <i>Dalton Transactions</i> , 2014, 43, 3162-3173.	1.6	14
30	Influence of Dy <sup>3+</sup> and Tb <sup>3+</sup> doping on <sup>13</sup> C dynamic nuclear polarization. <i>Journal of Chemical Physics</i> , 2017, 146, 014303.	1.2	14
31	Lanthanide DO3A-Tropone Complexes: Efficient Dual MR/NIR Imaging Probes in Aqueous Medium. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4965-4968.	1.0	12
32	Transition Metal Doping Reveals Link between Electron $^{13}\text{C}$ Reduction and <sup>13</sup> C Dynamic Nuclear Polarization Efficiency. <i>Journal of Physical Chemistry A</i> , 2017, 121, 9221-9228.	1.1	12
33	Smart MRI Agents for Detecting Extracellular Events In Vivo: Progress and Challenges. <i>Inorganics</i> , 2019, 7, 18.	1.2	12
34	Synchrotron Radiation X-ray Fluorescence Elemental Mapping in Healthy versus Malignant Prostate Tissues Provides New Insights into the Glucose-Stimulated Zinc Trafficking in the Prostate As Discovered by MRI. <i>Inorganic Chemistry</i> , 2019, 58, 13654-13660.	1.9	11
35	Amide conjugates of the DO3A-N $\beta$ -( $\beta$ -amino)propionate ligand: leads for stable, high relaxivity contrast agents for MRI?. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 40-49.	0.4	9
36	A Protein-Based Biosensor for Detecting Calcium by Magnetic Resonance Imaging. <i>ACS Sensors</i> , 2021, 6, 3163-3169.	4.0	8

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37	Tris(phosphonomethyl)cyclen Derivatives: Thermodynamic Stability, Kinetics, Solution Structure, and Relaxivity of Ln <sup>3+</sup> Complexes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2548-2559.	1.0	5
38	Protonation of carboxyl groups in EuDOTA-tetraamide complexes results in catalytic prototropic exchange and quenching of the CEST signal. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20170113.	1.6	5
39	Lanthanide-Based <i>T<sub>2</sub></i> and CEST Complexes Provide Insights into the Design of pH Sensitive MRI Agents. <i>Angewandte Chemie</i> , 2017, 129, 16853-16857.	1.6	2
40	A Single-Pot Template Reaction Towards a Manganese-Based T <sub>1</sub> Contrast Agent. <i>Angewandte Chemie</i> , 2021, 133, 10831-10839.	1.6	2
41	A <i>T<sub>2</sub></i> MRI Dy-based contrast agent for direct pH imaging using a ratiometric approach. <i>Dalton Transactions</i> , 2021, 50, 2014-2017.	1.6	1
42	Lanthanide DO3A-Tropone Complexes: Efficient Dual MR/NIR Imaging Probes in Aqueous Medium. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4963-4963.	1.0	0
43	Front Cover: Lanthanide DO3A-Tropone Complexes: Efficient Dual MR/NIR Imaging Probes in Aqueous Medium ( <i>Eur. J. Inorg. Chem.</i> 43/2017). <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4962-4962.	1.0	0