Silvio Aime

List of Publications by Year in descending order

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737 papers	31,300 citations	5268 83 h-index	11939 134 g-index
839 all docs	839 docs citations	839 times ranked	18741 citing authors

#	Article	IF	Citations
1	Prospects and limitations of paramagnetic chemical exchange saturation transfer agents serving as biological reporters in vivo. NMR in Biomedicine, 2023, 36, e4698.	2.8	10
2	GlucoCEST MRI for the Evaluation Response to Chemotherapeutic and Metabolic Treatments in a Murine Triple-Negative Breast Cancer: A Comparison with[18F]F-FDG-PET. Molecular Imaging and Biology, 2022, 24, 126-134.	2.6	9
3	Effect of the hydrogenation solvent in the PHIP-SAH hyperpolarization of [1-13C]pyruvate. Catalysis Today, 2022, 397-399, 94-102.	4.4	10
4	How the catalysis of the prototropic exchange affects the properties of lanthanide(III) complexes in their applications as MRI contrast agents. Inorganica Chimica Acta, 2022, 532, 120730.	2.4	6
5	What do we know about dynamic glucose-enhanced (DGE) MRI and how close is it to the clinics? Horizon 2020 GLINT consortium report. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 87-104.	2.0	7
6	XNAT-PIC: Extending XNAT to Preclinical Imaging Centers. Journal of Digital Imaging, 2022, 35, 860-875.	2.9	3
7	The interaction between iodinated Xâ€ray contrast agents and macrocyclic <scp>GBCAs</scp> provides a signal enhancement in <scp>T₁â€weighted MR</scp> images: Insights into the renal excretion pathways of <scp>Gdâ€HPDO3A</scp> and iodixanol in healthy mice. Magnetic Resonance in Medicine, 2022, 88, 357-364.	3.0	4
8	Highly Sensitive â€œOff/Onâ€•EPR Probes to Monitor Enzymatic Activity. Chemistry - A European Journal, 2022, 28, .	3.3	3
9	New tools to investigate tumor metabolism by NMR/MRI. Journal of Magnetic Resonance, 2022, 338, 107198.	2.1	5
10	Effects of Cations on HPTS Fluorescence and Quantification of Free Gadolinium Ions in Solution; Assessment of Intracellular Release of Gd3+ from Gd-Based MRI Contrast Agents. Molecules, 2022, 27, 2490.	3.8	1
11	Review and consensus recommendations on clinical <scp>APT</scp>â€weighted imaging approaches at <scp>3T</scp>: Application to brain tumors. Magnetic Resonance in Medicine, 2022, 88, 546-574.	3.0	79
12	Studies of the hydrophobic interaction between a pyrene-containing dye and a tetra-aza macrocyclic gadolinium complex. Inorganic Chemistry Frontiers, 2022, 9, 3494-3504.	6.0	1
13	[Gd(AAZTA)] â^' Derivatives with n â€Alkyl Acid Side Chains Show Improved Properties for Their Application as MRI Contrast Agents**. Chemistry - A European Journal, 2021, 27, 1849-1859.	3.3	4
14	Supramolecular adducts between macrocyclic Gd(<scp>iii</scp>) complexes and polyaromatic systems: a route to enhance the relaxivity through the formation of hydrophobic interactions. Chemical Science, 2021, 12, 1368-1377.	7.4	7
15	A Novel Class of 1 Hâ€MRI Contrast Agents Based on the Relaxation Enhancement Induced on Water Protons by 14 Nâ€Containing Imidazole Moieties. Angewandte Chemie - International Edition, 2021, 60, 4208-4214.	13.8	8
16	A Novel Class of 1 Hâ€MRI Contrast Agents Based on the Relaxation Enhancement Induced on Water Protons by 14 Nâ€Containing Imidazole Moieties. Angewandte Chemie, 2021, 133, 4254-4260.	2.0	1
17	Singulettâ€Kontrastâ€Magnetresonanztomographie: Freisetzung der Hyperpolarisation durch den Metabolismus**. Angewandte Chemie, 2021, 133, 6866-6873.	2.0	3
18	Singletâ€Contrast Magnetic Resonance Imaging: Unlocking Hyperpolarization with Metabolism**. Angewandte Chemie - International Edition, 2021, 60, 6791-6798.	13.8	28

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19	LipHosomes: Reporters for Ligand/Antiâ€Ligand Assays Based On pH Readout. Analysis & Sensing, 2021, 1, 48-53.	2.0	1
20	Chemistry of Molecular Imaging: An Overview. , 2021, , 423-443.		2
21	An albumin-binding Gd-HPDO3A contrast agent for improved intravascular retention. Inorganic Chemistry Frontiers, 2021, 8, 4014-4025.	6.0	4
22	Enhanced relaxivity of Gd^{III}-complexes with HP-DO3A-like ligands upon the activation of the intramolecular catalysis of the prototropic exchange. Inorganic Chemistry Frontiers, 2021, 8, 1500-1510.	6.0	9
23	Hydrogenative-PHIP polarized metabolites for biological studies. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 25-47.	2.0	34
24	Rapid hyperpolarization and purification of the metabolite fumarate in aqueous solution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	54
25	Targeting Chronic Myeloid Leukemia Stem/Progenitor Cells Using Venetoclax-Loaded Immunoliposome. Cancers, 2021, 13, 1311.	3.7	21
26	A global view of standards for open image data formats and repositories. Nature Methods, 2021, 18, 1440-1446.	19.0	36
27	ParaHydrogen Polarized Ethylâ€[1â€¹³C]pyruvate in Water, a Key Substrate for Fostering the PHIPâ€SAH Approach to Metabolic Imaging. ChemPhysChem, 2021, 22, 1042-1048.	2.1	10
28	In vitro and in vivo comparison of MRI chemical exchange saturation transfer (CEST) properties between native glucose and 3â€Oâ€Methylâ€Dâ€glucose in a murine tumor model. NMR in Biomedicine, 2021, 34, e4602.	2.8	9
29	Fe(deferasirox)₂: An Iron(III)-Based Magnetic Resonance Imaging T₁ Contrast Agent Endowed with Remarkable Molecular and Functional Characteristics. Journal of the American Chemical Society, 2021, 143, 14178-14188.	13.7	22
30	Low-Field NMR Relaxometry for Intraoperative Tumour Margin Assessment in Breast-Conserving Surgery. Cancers, 2021, 13, 4141.	3.7	3
31	Analysis of the Gadolinium retention in the Experimental Autoimmune Encephalomyelitis (EAE) murine model of Multiple Sclerosis. Journal of Trace Elements in Medicine and Biology, 2021, 68, 126831.	3.0	2
32	Monitoring tissue implants by field-cycling 1H-MRI via the detection of changes in the 14N-quadrupolar-peak from imidazole moieties incorporated in a â€œsmartâ€œ scaffold material. Journal of Materials Chemistry B, 2021, 9, 4863-4872.	5.8	5
33	H-Bonding and intramolecular catalysis of proton exchange affect the CEST properties of Eu^{III} complexes with HP-DO3A-like ligands. Chemical Communications, 2021, 57, 3287-3290.	4.1	3
34	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.	6.2	8
35	Imaging of Dysfunctional Elastogenesis in Atherosclerosis Using an Improved Gadolinium-Based Tetrameric MRI Probe Targeted to Tropoelastin. Journal of Medicinal Chemistry, 2021, 64, 15250-15261.	6.4	2
36	Intracellular Water Lifetime as a Tumor Biomarker to Monitor Doxorubicin Treatment via FFC-Relaxometry in a Breast Cancer Model. Frontiers in Oncology, 2021, 11, 778823.	2.8	5

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37	Novel Gastrin-Releasing Peptide Receptor Targeted Near-Infrared Fluorescence Dye for Image-Guided Surgery of Prostate Cancer. Molecular Imaging and Biology, 2020, 22, 85-93.	2.6	16
38	Gadolinium Retention in Erythrocytes and Leukocytes From Human and Murine Blood Upon Treatment With Gadolinium-Based Contrast Agents for Magnetic Resonance Imaging. Investigative Radiology, 2020, 55, 30-37.	6.2	13
39	Contaminations in (meta)genome data: An open issue for the scientific community. IUBMB Life, 2020, 72, 698-705.	3.4	13
40	Insights into Interfacial Water Structuring at the Nafion Surface by T₁-Weighted Magnetic Resonance Imaging. Langmuir, 2020, 36, 540-545.	3.5	5
41	L-ferritin: A theranostic agent of natural origin for MRI visualization and treatment of breast cancer. Journal of Controlled Release, 2020, 319, 300-310.	9.9	19
42	Multilamellar LipoCEST Agents Obtained from Osmotic Shrinkage of Paramagnetically Loaded Giant Unilamellar Vescicles (GUVs). Angewandte Chemie - International Edition, 2020, 59, 2279-2283.	13.8	5
43	Liposome-Based Bioassays. Biology, 2020, 9, 202.	2.8	15
44	Rare earth elements (REE) in biology and medicine. Rendiconti Lincei, 2020, 31, 821-833.	2.2	33
45	Manganese-enhanced MRI (MEMRI) in breast and prostate cancers: Preliminary results exploring the potential role of calcium receptors. PLoS ONE, 2020, 15, e0224414.	2.5	4
46	An Improved Biocompatible Probe for Photoacoustic Tumor Imaging Based on the Conjugation of Melanin to Bovine Serum Albumin. Applied Sciences (Switzerland), 2020, 10, 8313.	2.5	0
47	In-vitro NMR Studies of Prostate Tumor Cell Metabolism by Means of Hyperpolarized [1-13C]Pyruvate Obtained Using the PHIP-SAH Method. Frontiers in Oncology, 2020, 10, 497.	2.8	25
48	Towards an Improved Design of MRI Contrast Agents: Synthesis and Relaxometric Characterisation of Gdâ€HPDO3A Analogues. Chemistry - A European Journal, 2020, 26, 6056-6063.	3.3	6
49	Relaxometric studies of erythrocyte suspensions infected by Plasmodium falciparum: a tool for staging infection and testing antiâ€malarial drugs. Magnetic Resonance in Medicine, 2020, 84, 3366-3378.	3.0	13
50	Relaxometric Studies of Gd-Chelate Conjugated on the Surface of Differently Shaped Gold Nanoparticles. Nanomaterials, 2020, 10, 1115.	4.1	4
51	An innovative approach for the synthesis of dual modality peptide imaging probes based on the native chemical ligation approach. Chemical Communications, 2020, 56, 3500-3503.	4.1	8
52	Nanocarriers as Magic Bullets in the Treatment of Leukemia. Nanomaterials, 2020, 10, 276.	4.1	38
53	In vivo assessment of tumour associated macrophages in murine melanoma obtained by low-field relaxometry in the presence of iron oxide particles. Biomaterials, 2020, 236, 119805.	11.4	16
54	A Simple and Fast Assay Based on Carboxyfluorescein-Loaded Liposome for Quantitative DNA Detection. ACS Omega, 2020, 5, 1764-1772.	3.5	7

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55	Multilamellar LipoCEST Agents Obtained from Osmotic Shrinkage of Paramagnetically Loaded Giant Unilamellar Vescicles (GUVs). Angewandte Chemie, 2020, 132, 2299-2303.	2.0	2
56	Quantification of hydroxyl exchange of Dâ€Glucose at physiological conditions for optimization of glucoCEST MRI at 3, 7 and 9.4 Tesla. NMR in Biomedicine, 2019, 32, e4113.	2.8	49
57	Synthesis and Relaxometric Characterization of New Poly[N,Nâ€bis(3â€aminopropyl)glycine] (PAPGly) Dendrons Gdâ€Based Contrast Agents and Their in Vivo Study by Using the Dynamic Contrastâ€Enhanced MRI Technique at Low Field (1 T). Chemistry and Biodiversity, 2019, 16, e1900322.	2.1	3
58	Absence of dentate nucleus restingâ€state functional connectivity changes in nonneurological patients with gadoliniumâ€related hyperintensity on T₁â€weighted images. Journal of Magnetic Resonance Imaging, 2019, 50, 445-455.	3.4	23
59	Exploring the tumour extracellular matrix by in vivo Fast Field Cycling relaxometry after the administration of a Gadoliniumâ€based MRI contrast agent. Magnetic Resonance in Chemistry, 2019, 57, 845-851.	1.9	7
60	Magnetic Resonance Imaging Reveals Distinct Roles for Tissue Transglutaminase and Factor XIII in Maternal Angiogenesis During Early Mouse Pregnancy. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 1602-1613.	2.4	4
61	Polydopamine-decorated tobacco mosaic virus for photoacoustic/magnetic resonance bimodal imaging and photothermal cancer therapy. Nanoscale, 2019, 11, 9760-9768.	5.6	37
62	A Gadolinium(III) Zeolite-like Metal-Organic-Framework-Based Magnetic Resonance Thermometer. CheM, 2019, 5, 1609-1618.	11.7	38
63	Use of FCC-NMRD relaxometry for early detection and characterization of ex-vivo murine breast cancer. Scientific Reports, 2019, 9, 4624.	3.3	8
64	Development and characterization of lanthanide-HPDO3A-C16-based micelles as CEST-MRI contrast agents. Dalton Transactions, 2019, 48, 5343-5351.	3.3	6
65	Differences in Molecular Structure Markedly Affect GBCA Elimination Behavior. Radiology, 2019, 291, 267-268.	7.3	8
66	Characterization of a Manganeseâ€Containing Nanoparticle as an MRI Contrast Agent. European Journal of Inorganic Chemistry, 2019, 2019, 1759-1766.	2.0	6
67	Real-Time Nuclear Magnetic Resonance Detection of Fumarase Activity Using Parahydrogen-Hyperpolarized [1-¹³C]Fumarate. Journal of the American Chemical Society, 2019, 141, 20209-20214.	13.7	50
68	Characterisation of magnetic resonance imaging (MRI) contrast agents using NMR relaxometry. Molecular Physics, 2019, 117, 898-909.	1.7	50
69	Modifying LnHPDO3A Chelates for Improved T₁ and CEST MRI Applications. Chemistry - A European Journal, 2019, 25, 4184-4193.	3.3	8
70	Gadolinium presence, MRI hyperintensities, and glucose uptake in the hypoperfused rat brain after repeated administrations of gadodiamide. Neuroradiology, 2019, 61, 163-173.	2.2	14
71	Chemical Insights into the Issues of Gd Retention in the Brain and Other Tissues Upon the Administration of Gdâ€Containing MRI Contrast Agents. European Journal of Inorganic Chemistry, 2019, 2019, 137-151.	2.0	32
72	Emerging Technologies to Image Tissue Metabolism. Cell Metabolism, 2019, 29, 518-538.	16.2	47

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73	An efficient MRI agent targeting extracellular markers in prostate adenocarcinoma. Magnetic Resonance in Medicine, 2019, 81, 1935-1946.	3.0	6
74	Relaxometric investigations addressing the determination of intracellular water lifetime: a novel tumour biomarker of general applicability. Molecular Physics, 2019, 117, 968-974.	1.7	12
75	Metabolic Studies of Tumor Cells Using [1â€¹³C] Pyruvate Hyperpolarized by Means of PHIPâ€Side Arm Hydrogenation. ChemPhysChem, 2019, 20, 318-325.	2.1	49
76	Tumor Targeting via Sialic Acid: [68Ga]DOTA-en-pba as a New Tool for Molecular Imaging of Cancer with PET. Molecular Imaging and Biology, 2018, 20, 798-807.	2.6	10
77	Synthesis of High Relaxivity Gadolinium AAZTA Tetramers as Building Blocks for Bioconjugation. Bioconjugate Chemistry, 2018, 29, 1428-1437.	3.6	18
78	CESTâ€MRI studies of cells loaded with lanthanide shift reagents. Magnetic Resonance in Medicine, 2018, 80, 1626-1637.	3.0	15
79	Gd accumulation in tissues of healthy mice upon repeated administrations of Gadodiamide and Gadoteridol. Journal of Trace Elements in Medicine and Biology, 2018, 48, 239-245.	3.0	23
80	Exploiting the Proton Exchange as an Additional Route to Enhance the Relaxivity of Paramagnetic MRI Contrast Agents. Inorganic Chemistry, 2018, 57, 5567-5574.	4.0	23
81	Evidence for the Role of Intracellular Water Lifetime as a Tumour Biomarker Obtained by Inâ€...Vivo Fieldâ€Cycling Relaxometry. Angewandte Chemie - International Edition, 2018, 57, 7468-7472.	13.8	44
82	Studies to enhance the hyperpolarization level in PHIP-SAH-produced C13-pyruvate. Journal of Magnetic Resonance, 2018, 289, 12-17.	2.1	70
83	[Yb(AAZTA)(H₂O)]^{â^'}: an unconventional ParaCEST MRI probe. Chemical Communications, 2018, 54, 2004-2007.	4.1	11
84	Evidence for the Role of Intracellular Water Lifetime as a Tumour Biomarker Obtained by Inâ€...Vivo Fieldâ€Cycling Relaxometry. Angewandte Chemie, 2018, 130, 7590-7594.	2.0	4
85	A generalized ratiometric chemical exchange saturation transfer (CEST) MRI approach for mapping renal pH using iopamidol. Magnetic Resonance in Medicine, 2018, 79, 1553-1558.	3.0	57
86	Inner-sphere water and hydrogen bonds in lanthanide DOTAM complexes. A neutron diffraction study. Inorganica Chimica Acta, 2018, 470, 433-438.	2.4	6
87	No Lanthanidesâ€based Catalysis in Eukaryotes. IUBMB Life, 2018, 71, 398-399.	3.4	4
88	Lanthanidesâ€based catalysis in eukaryotes. IUBMB Life, 2018, 70, 1067-1075.	3.4	5
89	Cancer cell death induced by ferritins and the peculiar role of their labile iron pool. Oncotarget, 2018, 9, 27974-27984.	1.8	12
90	1H-NMR and MALDI-TOF MS as metabolomic quality control tests to classify platelet derived medium additives for GMP compliant cell expansion procedures. PLoS ONE, 2018, 13, e0203048.	2.5	2

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91	CESTâ€MRI for glioma pH quantification in mouse model: Validation by immunohistochemistry. NMR in Biomedicine, 2018, 31, e4005.	2.8	26
92	Complete on/off responsive ParaCEST MRI contrast agents for copper and zinc. Dalton Transactions, 2018, 47, 11346-11357.	3.3	19
93	Generation of multiparametric MRI maps by using Gd-labelled- RBCs reveals phenotypes and stages of murine prostate cancer. Scientific Reports, 2018, 8, 10567.	3.3	7
94	Efficient Route to Label Mesenchymal Stromal Cell-Derived Extracellular Vesicles. ACS Omega, 2018, 3, 8097-8103.	3.5	15
95	An innovative therapeutic approach for malignant mesothelioma treatment based on the use of Gd/boron multimodal probes for MRI guided BNCT. Journal of Controlled Release, 2018, 280, 31-38.	9.9	27
96	Exploring the intramolecular catalysis of the proton exchange process to modulate the relaxivity of Gd(<scp>iii</scp>)-complexes of HP-DO3A-like ligands. Chemical Communications, 2018, 54, 10056-10059.	4.1	13
97	The 13C hyperpolarized pyruvate generated by ParaHydrogen detects the response of the heart to altered metabolism in real time. Scientific Reports, 2018, 8, 8366.	3.3	119
98	Modulation of the Prototropic Exchange Rate in pHâ€Responsive Ybâ€HPDO3A Derivatives as ParaCEST Agents. ChemistrySelect, 2018, 3, 6035-6041.	1.5	11
99	The Issue of Gadolinium Retained in Tissues. Investigative Radiology, 2018, 53, 167-172.	6.2	44
100	AAZTA: An Ideal Chelating Agent for the Development of ⁴⁴Sc PET Imaging Agents. Angewandte Chemie - International Edition, 2017, 56, 2118-2122.	13.8	53
101	AAZTA: An Ideal Chelating Agent for the Development of ⁴⁴Sc PET Imaging Agents. Angewandte Chemie, 2017, 129, 2150-2154.	2.0	11
102	Theranostic Nanoparticles Loaded with Imaging Probes and Rubrocurcumin for Combined Cancer Therapy by Folate Receptor Targeting. ChemMedChem, 2017, 12, 502-509.	3.2	40
103	EXCI-CEST: Exploiting pharmaceutical excipients as MRI-CEST contrast agents for tumor imaging. International Journal of Pharmaceutics, 2017, 525, 275-281.	5.2	25
104	Unsaturated Longâ€Chain Fatty Acids Are Preferred Ferritin Ligands That Enhance Iron Biomineralization. Chemistry - A European Journal, 2017, 23, 9879-9887.	3.3	10
105	Iron oxide/PLGA nanoparticles for magnetically controlled drug release. International Journal of Applied Electromagnetics and Mechanics, 2017, 53, S53-S60.	0.6	7
106	Noninvasive evaluation of renal pH homeostasis after ischemia reperfusion injury by CESTâ€MRI. NMR in Biomedicine, 2017, 30, e3720.	2.8	41
107	MRI. , 2017, , 227-324.		2
108	Ferritin Decorated PLGA/Paclitaxel Loaded Nanoparticles Endowed with an Enhanced Toxicity Toward MCF-7 Breast Tumor Cells. Bioconjugate Chemistry, 2017, 28, 1283-1290.	3.6	31

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109	Assessing tumor vascularization as a potential biomarker of imatinib resistance in gastrointestinal stromal tumors by dynamic contrast-enhanced magnetic resonance imaging. Gastric Cancer, 2017, 20, 629-639.	5.3	22
110	Eight-Coordinate, Stable Fe(II) Complex as a Dual ¹⁹F and CEST Contrast Agent for Ratiometric pH Imaging. Inorganic Chemistry, 2017, 56, 12206-12213.	4.0	41
111	Gadolinium Retention in the Rat Brain: Assessment of the Amounts of Insoluble Gadolinium-containing Species and Intact Gadolinium Complexes after Repeated Administration of Gadolinium-based Contrast Agents. Radiology, 2017, 285, 839-849.	7.3	92
112	Enzymeâ€Responsive LipoCEST Agents: Assessment of MMPâ€2 Activity by Measuring the Intraâ€liposomal Water ¹Hâ€…NMR Shift. Angewandte Chemie - International Edition, 2017, 56, 12170-12173.	13.8	19
113	Enzymeâ€Responsive LipoCEST Agents: Assessment of MMPâ€2 Activity by Measuring the Intraâ€liposomal Water ¹Hâ€…NMR Shift. Angewandte Chemie, 2017, 129, 12338-12341.	2.0	7
114	Nano-sized and other improved reporters for magnetic resonance imaging of angiogenesis. Advanced Drug Delivery Reviews, 2017, 119, 61-72.	13.7	28
115	Water Soluble Melanin Derivatives for Dynamic Contrast Enhanced Photoacoustic Imaging of Tumor Vasculature and Response to Antiangiogenic Therapy. Advanced Healthcare Materials, 2017, 6, 1600550.	7.6	31
116	Macrocyclic paramagnetic agents for MRI: Determinants of relaxivity and strategies for their improvement. Magnetic Resonance in Medicine, 2017, 78, 1523-1532.	3.0	21
117	¹³Câ€…MR Hyperpolarization of Lactate by Using ParaHydrogen and Metabolic Transformation in Vitro. Chemistry - A European Journal, 2017, 23, 1200-1204.	3.3	56
118	Melanin-Based Contrast Agents for Biomedical Optoacoustic Imaging and Theranostic Applications. International Journal of Molecular Sciences, 2017, 18, 1719.	4.1	43
119	In vivo evaluation of tumour acidosis for assessing the early metabolic response and onset of resistance to dichloroacetate by using magnetic resonance pH imaging. International Journal of Oncology, 2017, 51, 498-506.	3.3	57
120	Chemical Shift and Relaxation Reagents in NMR â˜†. , 2017, , 195-202.		0
121	Chapter 3. Chemical Exchange Saturation Transfer (CEST) Contrast Agents. New Developments in NMR, 2017, , 243-317.	0.1	7
122	Chapter 19 Iodinated Contrast Media as pH-Responsive CEST Agents. , 2017, , 447-466.		8
123	The RNA-binding protein ESRP1 promotes human colorectal cancer progression. Oncotarget, 2017, 8, 10007-10024.	1.8	57
124	Endogenous glutamine decrease is associated with pancreatic cancer progression. Oncotarget, 2017, 8, 95361-95376.	1.8	41
125	Chapter 5 Birth of CEST Agents in Torino. , 2017, , 47-54.		0
126	Chapter 14 Saturating CompartmentalizedWater Protons: Liposome- and Cell-Based CEST Agents. , 2017, , 311-344.		1

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127	Assessing the transport rate of hyperpolarized pyruvate and lactate from the intra- to the extracellular space. NMR in Biomedicine, 2016, 29, 1022-1027.	2.8	17
128	LipoCEST and cellCEST imaging agents: opportunities and challenges. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 602-618.	6.1	40
129	In Vitro and In Vivo Assessment of Nonionic Iodinated Radiographic Molecules as Chemical Exchange Saturation Transfer Magnetic Resonance Imaging Tumor Perfusion Agents. Investigative Radiology, 2016, 51, 155-162.	6.2	41
130	Contrast Media. , 2016, , 59-70.		1
131	The release of Doxorubicin from liposomes monitored by MRI and triggered by a combination of US stimuli led to a complete tumor regression in a breast cancer mouse model. Journal of Controlled Release, 2016, 230, 57-63.	9.9	39
132	High kinetic inertness of a bis-hydrated Gd-complex with a constrained AAZTA-like ligand. Chemical Communications, 2016, 52, 11235-11238.	4.1	29
133	Functional imaging of the angiogenic switch in a transgenic mouse model of human breast cancer by dynamic contrast enhanced magnetic resonance imaging. International Journal of Cancer, 2016, 139, 404-413.	5.1	9
134	<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.	3.0	19
135	In Vivo Imaging of Tumor Metabolism and Acidosis by Combining PET and MRI-CEST pH Imaging. Cancer Research, 2016, 76, 6463-6470.	0.9	134
136	Probing lactate secretion in tumours with hyperpolarised NMR. NMR in Biomedicine, 2016, 29, 1079-1087.	2.8	6
137	Paramagnetic Phospholipid-Based Micelles Targeting VCAM-1 Receptors for MRI Visualization of Inflammation. Bioconjugate Chemistry, 2016, 27, 1921-1930.	3.6	21
138	Diolein Based Nanostructures as Targeted Theranostics. Journal of Biomedical Nanotechnology, 2016, 12, 1076-1088.	1.1	3
139	Î±â€²trideuteromethyl[15N]glutamine: A longâ€lived hyperpolarized perfusion marker. Magnetic Resonance in Medicine, 2016, 76, 1900-1904.	3.0	28
140	A relaxometric method for the assessment of intestinal permeability based on the oral administration of gadoliniumâ€based MRI contrast agents. NMR in Biomedicine, 2016, 29, 475-482.	2.8	1
141	Re-evaluation of the water exchange lifetime value across red blood cell membrane. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 627-631.	2.6	33
142	A rigidified AAZTA-like ligand as efficient chelator for68Ga radiopharmaceuticals. ChemistrySelect, 2016, 1, 163-171.	1.5	14
143	Mesoporous silica nanoparticles functionalized with fluorescent and MRI reporters for the visualization of murine tumors overexpressing Î±_vÎ²₃receptors. Nanoscale, 2016, 8, 7094-7104.	5.6	26
144	Gd-AAZTA-MADEC, an improved blood pool agent for DCE-MRI studies on mice on 1ÂT scanners. Biomaterials, 2016, 75, 47-57.	11.4	41

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145	L-Ferritin targets breast cancer stem cells and delivers therapeutic and imaging agents. Oncotarget, 2016, 7, 66713-66727.	1.8	54
146	Simultaneous MR imaging for tissue engineering in a rat model of stroke. Scientific Reports, 2015, 5, 14597.	3.3	26
147	Sensitive MRI detection of internalizedT₁contrast agents using magnetization transfer contrast. NMR in Biomedicine, 2015, 28, 1663-1670.	2.8	11
148	MEMRI and tumors: a method for the evaluation of the contribution of Mn(II) ions in the extracellular compartment. NMR in Biomedicine, 2015, 28, 1104-1110.	2.8	6
149	Glucan Particles Loaded with Fluorinated Emulsions: A Sensitivity Improvement for the Visualization of Phagocytic Cells by ¹⁹F-MRI. Current Molecular Imaging, 2015, 4, 29-34.	0.7	3
150	MRI Contrast Agents for Pharmacological Research. Frontiers in Pharmacology, 2015, 6, 290.	3.5	13
151	The hydroboration reaction as a key for a straightforward synthesis of new MRI-NCT agents. Organic and Biomolecular Chemistry, 2015, 13, 3288-3297.	2.8	7
152	Evaluation of the dose enhancement of combined¹⁰B +¹⁵⁷Gd neutron capture therapy (NCT). Radiation Protection Dosimetry, 2015, 166, 369-373.	0.8	10
153	ParaHydrogen Induced Polarization of 13C carboxylate resonance in acetate and pyruvate. Nature Communications, 2015, 6, 5858.	12.8	206
154	The Role of Equilibrium and Kinetic Properties in the Dissociation of Gd[DTPAâ€bis(methylamide)] (Omniscan) at near to Physiological Conditions. Chemistry - A European Journal, 2015, 21, 4789-4799.	3.3	40
155	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.	9.9	52
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