

Allan Dean Sherry

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

415 papers	20,092 citations	73 h-index	121 g-index
428 ext. papers	21,448 ext. citations	6.6 avg, IF	6.65 L-index

#	Paper	IF	Citations
4 ¹⁵	Prospects and limitations of paraCEST agents serving as biological reporters in vivo.. <i>NMR in Biomedicine</i> , 2022 , e4698	4.4	2
4 ¹⁴	Review and consensus recommendations on clinical APT-weighted imaging approaches at 3T: Application to brain tumors.. <i>Magnetic Resonance in Medicine</i> , 2022 ,	4.4	3
4 ¹³	Imaging β Cell Function Using a Zinc-Responsive MRI Contrast Agent May Identify First Responder Islets.. <i>Frontiers in Endocrinology</i> , 2021 , 12, 809867	5.7	0
4 ¹²	Detection of glucose-derived D- and L-lactate in cancer cells by the use of a chiral NMR shift reagent. <i>Cancer & Metabolism</i> , 2021 , 9, 38	5.4	1
4 ¹¹	Co-Polarized [1- ¹³ C]Pyruvate and [1,3- ¹³ C]Acetoacetate Provide a Simultaneous View of Cytosolic and Mitochondrial Redox in a Single Experiment. <i>ACS Sensors</i> , 2021 , 6, 3967-3977	9.2	1
4 ¹⁰	ZIMIR Imaging of Mouse Pancreatic Islet Cells Shows Oscillatory Insulin Secretion. <i>Frontiers in Endocrinology</i> , 2021 , 12, 613964	5.7	3
4 ⁰⁹	P-MRS of the healthy human brain at 7 T detects multiple hexose derivatives of uridine diphosphate glucose. <i>NMR in Biomedicine</i> , 2021 , 34, e4511	4.4	2
4 ⁰⁸	Imaging Beta-Cell Function in the Pancreas of Non-Human Primates Using a Zinc-Sensitive MRI Contrast Agent. <i>Frontiers in Endocrinology</i> , 2021 , 12, 641722	5.7	2
4 ⁰⁷	P-MRS of healthy human brain: Measurement of guanosine diphosphate mannose at 7 T. <i>NMR in Biomedicine</i> , 2021 , 34, e4576	4.4	0
4 ⁰⁶	Analysis of steady-state carbon tracer experiments using akaike information criteria. <i>Metabolomics</i> , 2021 , 17, 61	4.7	0
4 ⁰⁵	The Roles of ZnT1 and ZnT4 in Glucose-Stimulated Zinc Secretion in Prostate Epithelial Cells. <i>Molecular Imaging and Biology</i> , 2021 , 23, 230-240	3.8	3
4 ⁰⁴	New Insights into Metabolic Regulation from Hyperpolarized ¹³ C MRS/MRI Studies 2021 , 181-203		
4 ⁰³	Magnetic Resonance Imaging Detection of Glucose-Stimulated Zinc Secretion in the Enlarged Dog Prostate as a Potential Method for Differentiating Prostate Cancer From Benign Prostatic Hyperplasia. <i>Investigative Radiology</i> , 2021 , 56, 450-457	10.1	1
4 ⁰²	Characterization and compensation of inhomogeneity artifact in spiral hyperpolarized C imaging of the human heart. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 157-166	4.4	2
4 ⁰¹	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	5.1	9
4 ⁰⁰	Quantitative measurement of redox state in human brain by P MRS at 7T with spectral simplification and inclusion of multiple nucleotide sugar components in data analysis. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2338-2351	4.4	9
399	Glycine by MR spectroscopy is an imaging biomarker of glioma aggressiveness. <i>Neuro-Oncology</i> , 2020 , 22, 1018-1029	1	13

398	Mitochondrial substrate utilization regulates cardiomyocyte cell-cycle progression. <i>Nature Metabolism</i> , 2020 , 2, 167-178	14.6	50
397	Comparison of the equilibrium, kinetic and water exchange properties of some metal ion-DOTA and DOTA-bis(amide) complexes. <i>Journal of Inorganic Biochemistry</i> , 2020 , 206, 111042	4.2	8
396	Mitochondrial Substrate Utilization Regulates Cardiomyocyte Cell Cycle Progression. <i>Nature Metabolism</i> , 2020 , 2, 167-178	14.6	29
395	Lactate Dehydrogenase A Governs Cardiac Hypertrophic Growth in Response to Hemodynamic Stress. <i>Cell Reports</i> , 2020 , 32, 108087	10.6	16
394	Imaging Tissue Physiology In Vivo by Use of Metal Ion-Responsive MRI Contrast Agents. <i>Pharmaceuticals</i> , 2020 , 13,	5.2	4
393	A Frequency-Selective pH-Responsive paraCEST Agent. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21671-21676	16.4	5
392	A Frequency-Selective pH-Responsive paraCEST Agent. <i>Angewandte Chemie</i> , 2020 , 132, 21855-21860	3.6	
391	Hyperpolarized N-labeled, deuterated tris (2-pyridylmethyl)amine as an MRI sensor of freely available Zn. <i>Communications Chemistry</i> , 2020 , 3,	6.3	2
390	In vivo assessment of increased oxidation of branched-chain amino acids in glioblastoma. <i>Scientific Reports</i> , 2019 , 9, 340	4.9	14
389	A Responsive Magnetic Resonance Imaging Contrast Agent for Detection of Excess Copper(II) in the Liver. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11009-11018	16.4	17
388	Modular P wideband inversion transfer for integrative analysis of adenosine triphosphate metabolism, T relaxation and molecular dynamics in skeletal muscle at 7T. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 3440-3452	4.4	1
387	Metabolism of hyperpolarized C-acetoacetate to ̢-hydroxybutyrate detects real-time mitochondrial redox state and dysfunction in heart tissue. <i>NMR in Biomedicine</i> , 2019 , 32, e4091	4.4	8
386	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	5.1	8
385	Active pyruvate dehydrogenase and impaired gluconeogenesis in orthotopic hepatomas of rats. <i>Metabolism: Clinical and Experimental</i> , 2019 , 101, 153993	12.7	6
384	Real-time hyperpolarized C magnetic resonance detects increased pyruvate oxidation in pyruvate dehydrogenase kinase 2/4-double knockout mouse livers. <i>Scientific Reports</i> , 2019 , 9, 16480	4.9	6
383	Probing carbohydrate metabolism using hyperpolarized C-labeled molecules. <i>NMR in Biomedicine</i> , 2019 , 32, e4018	4.4	8
382	Unveiling a hidden P signal coresonating with extracellular inorganic phosphate by outer-volume-suppression and localized P MRS in the human brain at 7T. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 1289-1297	4.4	15
381	Presaturation Power Adjusted Pulsed CEST: A Method to Increase Independence of Target CEST Signals. <i>Contrast Media and Molecular Imaging</i> , 2018 , 2018, 3141789	3.2	1

380	A novel inhibitor of pyruvate dehydrogenase kinase stimulates myocardial carbohydrate oxidation in diet-induced obesity. <i>Journal of Biological Chemistry</i> , 2018 , 293, 9604-9613	5.4	11
379	Advances in gadolinium-based MRI contrast agent designs for monitoring biological processes in vivo. <i>Current Opinion in Chemical Biology</i> , 2018 , 45, 121-130	9.7	48
378	tcaSIM: A Simulation Program for Optimal Design of C Tracer Experiments for Analysis of Metabolic Flux by NMR and Mass Spectroscopy. <i>Current Metabolomics</i> , 2018 , 6, 176-187	1	6
377	Esterase-Catalyzed Production of Hyperpolarized C-Enriched Carbon Dioxide in Tissues for Measuring pH. <i>ACS Sensors</i> , 2018 , 3, 2232-2236	9.2	8
376	Imaging Insulin Secretion from Mouse Pancreas by MRI Is Improved by Use of a Zinc-Responsive MRI Sensor with Lower Affinity for Zn Ions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17456-17464	16.4	47
375	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	5.6	30
374	Band inversion amplifies P- P nuclear overhauser effects: Relaxation mechanism and dynamic behavior of ATP in the human brain by P MRS at 7 T. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1409-1418	4.4	8
373	On-bead combinatorial synthesis and imaging of europium(III)-based paraCEST agents aids in identification of chemical features that enhance CEST sensitivity. <i>Magnetic Resonance in Chemistry</i> , 2017 , 55, 747-753	2.1	9
372	Influence of Dy and Tb doping on C dynamic nuclear polarization. <i>Journal of Chemical Physics</i> , 2017 , 146, 014303	3.9	14
371	Hyperpolarized $[1-^{13}\text{C}]$ gluconolactone as a probe of the pentose phosphate pathway. <i>NMR in Biomedicine</i> , 2017 , 30, e3713	4.4	16
370	Efficient P band inversion transfer approach for measuring creatine kinase activity, ATP synthesis, and molecular dynamics in the human brain at 7 T. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1657-1666	4.4	11
369	Crosslinked shells for nano-assembled capsules: a new encapsulation method for smaller Gd-loaded capsules with exceedingly high relaxivities. <i>Chemical Communications</i> , 2017 , 53, 6355-6358	5.8	7
368	Oxidation of $[U-^{13}\text{C}]$ glucose in the human brain at 7T under steady state conditions. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 2065-2071	4.4	20
367	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	4.8	21
366	Enantiomeric Recognition of d- and l-Lactate by CEST with the Aid of a Paramagnetic Shift Reagent. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17431-17437	16.4	19
365	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,	3	4
364	Lanthanide-Based T and CEST Complexes Provide Insights into the Design of pH Sensitive MRI Agents. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16626-16630	16.4	14
363	Measuring glucose cerebral metabolism in the healthy mouse using hyperpolarized C magnetic resonance. <i>Scientific Reports</i> , 2017 , 7, 11719	4.9	36

362	Zinc as an Imaging Biomarker of Prostate Cancer. <i>Israel Journal of Chemistry</i> , 2017 , 57, 854-861	3.4	11
361	Electrochemical investigation of the Eu redox couple in complexes with variable numbers of glycnamide and acetate pendant arms. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 5001-5005	2.3	11
360	Transition Metal Doping Reveals Link between Electron T Reduction and C Dynamic Nuclear Polarization Efficiency. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 9221-9228	2.8	12
359	Lanthanide-Based T2ex and CEST Complexes Provide Insights into the Design of pH Sensitive MRI Agents. <i>Angewandte Chemie</i> , 2017 , 129, 16853-16857	3.6	2
358	The rate of lactate production from glucose in hearts is not altered by per-deuteration of glucose. <i>Journal of Magnetic Resonance</i> , 2017 , 284, 86-93	3	8
357	Chapter 11 ParaCEST Agents: Design, Discovery, and Implementation 2017 , 219-256		
356	Chapter 4 Early Discovery and Investigations of paraCEST Agents in Dallas 2017 , 39-46		
355	Zinc-sensitive MRI contrast agent detects differential release of Zn(II) ions from the healthy vs. malignant mouse prostate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5464-71	11.5	69
354	Accelerated chemical shift imaging of hyperpolarized (13) C metabolites. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1033-8	4.4	12
353	An Oral Load of [13C3]Glycerol and Blood NMR Analysis Detect Fatty Acid Esterification, Pentose Phosphate Pathway, and Glycerol Metabolism through the Tricarboxylic Acid Cycle in Human Liver. <i>Journal of Biological Chemistry</i> , 2016 , 291, 19031-41	5.4	14
352	Oxidative Conversion of a Europium(II)-Based T1 Agent into a Europium(III)-Based paraCEST Agent that can be Detected In Vivo by Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , 2016 , 128, 5108-5111	3.6	6
351	A general chemical shift decomposition method for hyperpolarized (13) C metabolite magnetic resonance imaging. <i>Magnetic Resonance in Chemistry</i> , 2016 , 54, 665-73	2.1	6
350	A simple approach to evaluate the kinetic rate constant for ATP synthesis in resting human skeletal muscle at 7 T. <i>NMR in Biomedicine</i> , 2016 , 29, 1240-8	4.4	8
349	Oxidative Conversion of a Europium(II)-Based T1 Agent into a Europium(III)-Based paraCEST Agent that can be Detected In Vivo by Magnetic Resonance Imaging. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5024-7	16.4	22
348	Toward 20T magnetic resonance for human brain studies: opportunities for discovery and neuroscience rationale. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016 , 29, 617-39	2.8	46
347	Breaking the Barrier to Slow Water Exchange Rates for Optimal Magnetic Resonance Detection of paraCEST Agents. <i>Inorganic Chemistry</i> , 2016 , 55, 3007-14	5.1	20
346	Unexpected Changes in the Population of Coordination Isomers for the Lanthanide Ion Complexes of DOTMA-Tetraglycinate. <i>Inorganic Chemistry</i> , 2016 , 55, 9297-305	5.1	14
345	Integration of 13C Isotopomer Methods and Hyperpolarization Provides a Comprehensive Picture of Metabolism 2016 , 885-900		2

344	The Relationship between NMR Chemical Shifts of Thermally Polarized and Hyperpolarized Y Complexes and Their Solution Structures. <i>Chemistry - A European Journal</i> , 2016 , 22, 16657-16667	4.8	11
343	Impact of Ho(3+)-doping on (13)C dynamic nuclear polarization using trityl OX063 free radical. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 21351-9	3.6	16
342	Metabolism of hyperpolarized [1-(13)C]pyruvate through alternate pathways in rat liver. <i>NMR in Biomedicine</i> , 2016 , 29, 466-74	4.4	33
341	pH imaging of mouse kidneys in vivo using a frequency-dependent paraCEST agent. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 2432-41	4.4	49
340	Production of hyperpolarized CO from [1-C]pyruvate in perfused liver does reflect total anaplerosis but is not a reliable biomarker of glucose production. <i>Metabolomics</i> , 2015 , 11, 1144-1156	4.7	15
339	Nuclear spin hyperpolarization of the solvent using signal amplification by reversible exchange (SABRE). <i>Journal of Magnetic Resonance</i> , 2015 , 257, 15-23	3	29
338	Limitations of detection of anaplerosis and pyruvate cycling from metabolism of [1-(13)C] acetate. <i>Nature Medicine</i> , 2015 , 21, 108-9	50.5	13
337	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, 14173-9	16.4	56
336	Hyperpolarized 15N-pyridine derivatives as pH-sensitive MRI agents. <i>Scientific Reports</i> , 2015 , 5, 9104	4.9	74
335	(31)P-MRS of healthy human brain: ATP synthesis, metabolite concentrations, pH, and T1 relaxation times. <i>NMR in Biomedicine</i> , 2015 , 28, 1455-62	4.4	59
334	A pH-Responsive MRI Agent that Can Be Activated Beyond the Tissue Magnetization Transfer Window. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8662-4	16.4	27
333	[(68) Ga]-HP-DO3A-nitroimidazole: a promising agent for PET detection of tumor hypoxia. <i>Contrast Media and Molecular Imaging</i> , 2015 , 10, 465-72	3.2	11
332	Exchange kinetics by inversion transfer: integrated analysis of the phosphorus metabolite kinetic exchanges in resting human skeletal muscle at 7 T. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1359-69	4.4	18
331	Hyperpolarized 13C NMR detects rapid drug-induced changes in cardiac metabolism. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 312-9	4.4	29
330	Amplification of the effects of magnetization exchange by (31) P band inversion for measuring adenosine triphosphate synthesis rates in human skeletal muscle. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 1505-14	4.4	11
329	A pH-Responsive MRI Agent that Can Be Activated Beyond the Tissue Magnetization Transfer Window. <i>Angewandte Chemie</i> , 2015 , 127, 8786-8788	3.6	3
328	Basic MR relaxation mechanisms and contrast agent design. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 545-65	5.6	109
327	Lactate Contributes to Glyceroneogenesis and Glyconeogenesis in Skeletal Muscle by Reversal of Pyruvate Kinase. <i>Journal of Biological Chemistry</i> , 2015 , 290, 30486-97	5.4	7

326	The ratio of acetate-to-glucose oxidation in astrocytes from a single ^{13}C NMR spectrum of cerebral cortex. <i>Journal of Neurochemistry</i> , 2015 , 132, 99-109	6	7
325	Molecular platform for design and synthesis of targeted dual-modality imaging probes. <i>Bioconjugate Chemistry</i> , 2015 , 26, 549-58	6.3	15
324	Mitochondrial metabolism mediates oxidative stress and inflammation in fatty liver. <i>Journal of Clinical Investigation</i> , 2015 , 125, 4447-62	15.9	234
323	The stereochemistry of amide side chains containing carboxyl groups influences water exchange rates in EuDOTA-tetraamide complexes. <i>Journal of Biological Inorganic Chemistry</i> , 2014 , 19, 161-71	3.7	20
322	GdDO3NI, a nitroimidazole-based T1 MRI contrast agent for imaging tumor hypoxia in vivo. <i>Journal of Biological Inorganic Chemistry</i> , 2014 , 19, 271-9	3.7	24
321	Redox- and hypoxia-responsive MRI contrast agents. <i>ChemMedChem</i> , 2014 , 9, 1116-29	3.7	59
320	Propionate stimulates pyruvate oxidation in the presence of acetate. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 307, H1134-41	5.2	16
319	Simultaneous steady-state and dynamic ^{13}C NMR can differentiate alternative routes of pyruvate metabolism in living cancer cells. <i>Journal of Biological Chemistry</i> , 2014 , 289, 6212-24	5.4	44
318	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. <i>Inorganic Chemistry</i> , 2014 , 53, 10012-4	5.1	11
317	CEST and PARACEST Agents for Molecular Imaging 2014 , 225-243		2
316	Maximizing T2-exchange in Dy(3+)DOTA-(amide)X chelates: fine-tuning the water molecule exchange rate for enhanced T2 contrast in MRI. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1179-85	4.4	34
315	In vivo imaging of paraCEST agents using frequency labeled exchange transfer MRI. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 286-93	4.4	9
314	In vivo chemical exchange saturation transfer imaging allows early detection of a therapeutic response in glioblastoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4542-7	11.5	140
313	Interaction between the pentose phosphate pathway and gluconeogenesis from glycerol in the liver. <i>Journal of Biological Chemistry</i> , 2014 , 289, 32593-603	5.4	21
312	Dynamic monitoring of carnitine and acetylcarnitine in the trimethylamine signal after exercise in human skeletal muscle by 7T ^1H -MRS. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 7-17	4.4	27
311	Multi-chromatic pH-activatable ^{19}F -MRI nanoprobe with binary ON/OFF pH transitions and chemical-shift barcodes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8074-8	16.4	95
310	The importance of water exchange rates in the design of responsive agents for MRI. <i>Current Opinion in Chemical Biology</i> , 2013 , 17, 167-74	9.7	85
309	Modulation of CEST images in vivo by T1 relaxation: a new approach in the design of responsive PARACEST agents. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14904-7	16.4	42

308	Advantages of paramagnetic chemical exchange saturation transfer (CEST) complexes having slow to intermediate water exchange properties as responsive MRI agents. <i>NMR in Biomedicine</i> , 2013 , 26, 829-38	4.4	30
307	CEST: from basic principles to applications, challenges and opportunities. <i>Journal of Magnetic Resonance</i> , 2013 , 229, 155-72	3	210
306	Dissolution DNP-NMR spectroscopy using galvinoxyl as a polarizing agent. <i>Journal of Magnetic Resonance</i> , 2013 , 227, 14-9	3	28
305	Stability and Toxicity of Contrast Agents 2013 , 157-208		31
304	A europium(III)-based PARACEST agent for sensing singlet oxygen by MRI. <i>Dalton Transactions</i> , 2013 , 42, 8066-9	4.3	31
303	A novel class of polymeric pH-responsive MRI CEST agents. <i>Chemical Communications</i> , 2013 , 49, 6418-20	5.8	24
302	Electron spin resonance studies of trityl OX063 at a concentration optimal for DNP. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9800-7	3.6	70
301	Metabolism of glycerol, glucose, and lactate in the citric acid cycle prior to incorporation into hepatic acylglycerols. <i>Journal of Biological Chemistry</i> , 2013 , 288, 14488-14496	5.4	17
300	Evidence for transaldolase activity in the isolated heart supplied with [U-13C3]glycerol. <i>Journal of Biological Chemistry</i> , 2013 , 288, 2914-22	5.4	4
299	Multi-Chromatic pH-Activatable 19F-MRI Nanoprobes with Binary ON/OFF pH Transitions and Chemical-Shift Barcodes. <i>Angewandte Chemie</i> , 2013 , 125, 8232-8236	3.6	17
298	Noninvasive monitoring of lactate dynamics in human forearm muscle after exhaustive exercise by (1)H-magnetic resonance spectroscopy at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 610-9	4.4	12
297	Characterization of lung cancer by amide proton transfer (APT) imaging: an in-vivo study in an orthotopic mouse model. <i>PLoS ONE</i> , 2013 , 8, e77019	3.7	34
296	pCEST: Positive contrast using Chemical Exchange Saturation Transfer. <i>Journal of Magnetic Resonance</i> , 2012 , 215, 64-73	3	16
295	Nanoparticle-based PARACEST agents: the quenching effect of silica nanoparticles on the CEST signal from surface-conjugated chelates. <i>Contrast Media and Molecular Imaging</i> , 2012 , 7, 19-25	3.2	10
294	In vivo determination of human breast fat composition by 1H magnetic resonance spectroscopy at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 20-6	4.4	47
293	Reply to: Intramyocellular lipids vs. intramyocellular triglycerides. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 299-299	4.4	1
292	A second generation MRI contrast agent for imaging zinc ions. <i>MedChemComm</i> , 2012 , 3, 480-483	5	25
291	Impact of Gd3+ on DNP of [1-13C]pyruvate doped with trityl OX063, BDPA, or 4-oxo-TEMPO. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 5129-38	2.8	84

290	Imaging free zinc levels in vivo - what can be learned?. <i>Inorganica Chimica Acta</i> , 2012 , 393, 12-23	2.7	39
289	Europium(III) DOTA-tetraamide complexes as redox-active MRI sensors. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5798-800	16.4	86
288	SWIFT-CEST: a new MRI method to overcome T ₂ shortening caused by PARACEST contrast agents. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 816-21	4.4	19
287	Using frequency-labeled exchange transfer to separate out conventional magnetization transfer effects from exchange transfer effects when detecting ParaCEST agents. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 906-11	4.4	19
286	Comparison of kinetic models for analysis of pyruvate-to-lactate exchange by hyperpolarized ¹³ C NMR. <i>NMR in Biomedicine</i> , 2012 , 25, 1286-94	4.4	89
285	Amphiphilic EuDOTA-tetraamide complexes form micelles with enhanced CEST sensitivity. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 2126-2134	2.3	15
284	Synthesis and characterization of a hypoxia-sensitive MRI probe. <i>Chemistry - A European Journal</i> , 2012 , 18, 9669-76	4.8	41
283	Fast Dissolution Dynamic Nuclear Polarization NMR of ¹³ C-Enriched 89Y-DOTA Complex: Experimental and Theoretical Considerations. <i>Applied Magnetic Resonance</i> , 2012 , 43, 69-79	0.8	29
282	Europium(III) DOTA-derivatives having ketone donor pendant arms display dramatically slower water exchange. <i>Inorganic Chemistry</i> , 2011 , 50, 1648-55	5.1	35
281	Investigations into whole water, prototropic and amide proton exchange in lanthanide(III) DOTA-tetraamide chelates. <i>Dalton Transactions</i> , 2011 , 40, 6759-64	4.3	27
280	TmDOTA-tetraglycinate encapsulated liposomes as pH-sensitive LipoCEST agents. <i>PLoS ONE</i> , 2011 , 6, e27370	3.7	21
279	Transfer of hyperpolarization from long T ₁ storage nuclei to short T ₁ neighbors using FLOPSY-8. <i>Journal of Magnetic Resonance</i> , 2011 , 213, 187-91	3	3
278	Strategies for labeling proteins with PARACEST agents. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 1106-14	3.4	6
277	T ₂ exchange agents: a new class of paramagnetic MRI contrast agent that shortens water T ₂ by chemical exchange rather than relaxation. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 1697-703	4.4	38
276	A lanthanide complex with dual biosensing properties: CEST (chemical exchange saturation transfer) and BIRDS (biosensor imaging of redundant deviation in shifts) with europium DOTA-tetraglycinate. <i>NMR in Biomedicine</i> , 2011 , 24, 1216-25	4.4	27
275	Imaging the extracellular pH of tumors by MRI after injection of a single cocktail of T ₁ and T ₂ contrast agents. <i>NMR in Biomedicine</i> , 2011 , 24, 1380-91	4.4	68
274	Could ¹³ C MRI assist clinical decision-making for patients with heart disease?. <i>NMR in Biomedicine</i> , 2011 , 24, 973-9	4.4	38
273	The pH sensitivity of -NH exchange in LnDOTA-tetraamide complexes varies with amide substituent. <i>Contrast Media and Molecular Imaging</i> , 2011 , 6, 459-64	3.2	15

272	Towards the rational design of MRI contrast agents: Substitution of lanthanide(III) NB-DOTA-tetraamide chelates influences but does not control coordination geometry. <i>Chemistry - A European Journal</i> , 2011 , 17, 10372-8	4.8	17
271	BDPA: an efficient polarizing agent for fast dissolution dynamic nuclear polarization NMR spectroscopy. <i>Chemistry - A European Journal</i> , 2011 , 17, 10825-7	4.8	68
270	On-bead combinatorial synthesis and imaging of chemical exchange saturation transfer magnetic resonance imaging agents to identify factors that influence water exchange. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13023-30	16.4	19
269	DNP by thermal mixing under optimized conditions yields >60,000-fold enhancement of ⁸⁹ Y NMR signal. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8673-80	16.4	82
268	Off-resonance saturation MRI of superparamagnetic nanoprobe: theoretical models and experimental validations. <i>Journal of Magnetic Resonance</i> , 2011 , 209, 53-60	3	16
267	The effect of ¹³ C enrichment in the glassing matrix on dynamic nuclear polarization of [1- ¹³ C]pyruvate. <i>Physics in Medicine and Biology</i> , 2011 , 56, N85-92	3.8	33
266	Noninvasive MRI of cell function using a Zn ²⁺ -responsive contrast agent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18400-5	11.5	118
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