

Ryan E Mewis

List of Publications by Year in descending order

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49
papers

2,621
citations

304368

22
h-index

197535

49
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52
all docs

52
docs citations

52
times ranked

1659
citing authors

#	ARTICLE	IF	CITATIONS
1	Iridium N-Heterocyclic Carbene Complexes as Efficient Catalysts for Magnetization Transfer from <i>para</i> -Hydrogen. <i>Journal of the American Chemical Society</i> , 2011, 133, 6134-6137.	6.6	318
2	The theory and practice of hyperpolarization in magnetic resonance using parahydrogen. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2012, 67, 1-48.	3.9	317
3	Biomedical applications of macrocyclic ligand complexes. <i>Coordination Chemistry Reviews</i> , 2010, 254, 1686-1712.	9.5	257
4	Application of <i>para</i> -hydrogen Induced Polarization Techniques in NMR Spectroscopy and Imaging. <i>Accounts of Chemical Research</i> , 2012, 45, 1247-1257.	7.6	198
5	A hyperpolarized equilibrium for magnetic resonance. <i>Nature Communications</i> , 2013, 4, 2946.	5.8	126
6	Optimization of SABRE for polarization of the tuberculosis drugs pyrazinamide and isoniazid. <i>Journal of Magnetic Resonance</i> , 2013, 237, 73-78.	1.2	122
7	Delivering strong ¹ H nuclear hyperpolarization levels and long magnetic lifetimes through signal amplification by reversible exchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3188-E3194.	3.3	115
8	Utilization of SABRE-Derived Hyperpolarization To Detect Low-Concentration Analytes via 1D and 2D NMR Methods. <i>Journal of the American Chemical Society</i> , 2012, 134, 12904-12907.	6.6	110
9	Toward Biocompatible Nuclear Hyperpolarization Using Signal Amplification by Reversible Exchange: Quantitative <i>in Situ</i> Spectroscopy and High-Field Imaging. <i>Analytical Chemistry</i> , 2014, 86, 1767-1774.	3.2	105
10	Strategies for the Hyperpolarization of Acetonitrile and Related Ligands by SABRE. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1416-1424.	1.2	87
11	Hyperpolarisation through reversible interactions with parahydrogen. <i>Catalysis Science and Technology</i> , 2014, 4, 3544-3554.	2.1	84
12	Probing signal amplification by reversible exchange using an NMR flow system. <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 358-369.	1.1	81
13	Iridium(III) Hydrido N-Heterocyclic Carbene-Phosphine Complexes as Catalysts in Magnetization Transfer Reactions. <i>Inorganic Chemistry</i> , 2013, 52, 13453-13461.	1.9	69
14	Improving the Hyperpolarization of ³¹ P Nuclei by Synthetic Design. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5020-5027.	1.2	65
15	Deactivation of signal amplification by reversible exchange catalysis, progress towards <i>in vivo</i> application. <i>Chemical Communications</i> , 2015, 51, 9857-9859.	2.2	44
16	Investigating pyridazine and phthalazine exchange in a series of iridium complexes in order to define their role in the catalytic transfer of magnetisation from <i>para</i> -hydrogen. <i>Chemical Science</i> , 2015, 6, 3981-3993.	3.7	43
17	Rapid Identification of Novel Psychoactive and Other Controlled Substances Using Low-Field ¹ H NMR Spectroscopy. <i>ACS Omega</i> , 2019, 4, 7103-7112.	1.6	41
18	Molecular MRI in the Earth's Magnetic Field Using Continuous Hyperpolarization of a Biomolecule in Water. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5670-5677.	1.2	37

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19	CXCR4 chemokine receptor antagonists: nickel(ii) complexes of configurationally restricted macrocycles. <i>Dalton Transactions</i> , 2012, 41, 11369.	1.6	35
20	Extending the Scope of ¹⁹ F Hyperpolarization through Signal Amplification by Reversible Exchange in MRI and NMR Spectroscopy. <i>ChemistryOpen</i> , 2018, 7, 97-105.	0.9	34
21	Developments and advances concerning the hyperpolarisation technique SABRE. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 789-800.	1.1	33
22	Classification of fentanyl analogues through principal component analysis (PCA) and hierarchical clustering of GC-MS data. <i>Forensic Chemistry</i> , 2020, 21, 100287.	1.7	27
23	Hitting the Jackpot – development of gas chromatography–mass spectrometry (GC–MS) and other rapid screening methods for the analysis of 18 fentanyl–derived synthetic opioids. <i>Drug Testing and Analysis</i> , 2020, 12, 798-811.	1.6	24
24	Catalytic Transfer of Magnetism Using a Neutral Iridium Phenoxide Complex. <i>Organometallics</i> , 2015, 34, 2997-3006.	1.1	23
25	Quantification of MDMA in seized tablets using benchtop ¹ H NMR spectroscopy in the absence of internal standards. <i>Forensic Chemistry</i> , 2020, 20, 100263.	1.7	20
26	Synthesis and phototoxicity of polyethylene glycol (PEG) substituted metal-free and metallo-porphyrins: Effect of PEG chain length, coordinated metal, and axial ligand. <i>Photodiagnosis and Photodynamic Therapy</i> , 2009, 6, 200-206.	1.3	17
27	Engineering molecularly imprinted polymers (MIPs) for the selective extraction and quantification of the novel psychoactive substance (NPS) methoxphenidine and its regioisomers. <i>Analyst</i> , The, 2018, 143, 2002-2007.	1.7	17
28	Improving NMR and MRI Sensitivity with Parahydrogen. <i>Topics in Current Chemistry</i> , 2012, 338, 75-103.	4.0	16
29	Aspartate–Based CXCR4 Chemokine Receptor Binding of Cross–Bridged Tetraazamacrocyclic Copper(II) and Zinc(II) Complexes. <i>Chemistry - A European Journal</i> , 2016, 22, 12916-12930.	1.7	16
30	Quick Test for Determination of N-Bombs (Phenethylamine Derivatives, NBOMe) Using High-Performance Liquid Chromatography: A Comparison between Photodiode Array and Amperometric Detection. <i>ACS Omega</i> , 2019, 4, 14439-14450.	1.6	14
31	Using ² H labelling to improve the NMR detectability of pyridine and its derivatives by SABRE. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 663-671.	1.1	13
32	Perspective on the Hyperpolarisation Technique Signal Amplification by Reversible Exchange (SABRE) in NMR Spectroscopy and MR Imaging. <i>Annual Reports on NMR Spectroscopy</i> , 2018, 93, 145-212.	0.7	13
33	Synthesis, structure and reactivity of 1-(4-nitrobenzyl)-2-chloromethyl benzimidazole. <i>Tetrahedron Letters</i> , 2010, 51, 4723-4726.	0.7	12
34	Synthesis and hyperpolarisation of eNOS substrates for quantification of NO production by ¹ H NMR spectroscopy. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2730-2742.	1.4	11
35	Using hyperpolarised NMR and DFT to rationalise the unexpected hydrogenation of quinazoline to 3,4-dihydroquinazoline. <i>Chemical Communications</i> , 2018, 54, 10375-10378.	2.2	10
36	Fast & fluorinated – Development and validation of a rapid benchtop NMR approach and other routine screening methods for the detection and quantification of synthesized fluorofentanyl derivatives. <i>Forensic Chemistry</i> , 2021, 23, 100321.	1.7	9

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37	Hyperpolarization of Pyridyl Fentalogues by Signal Amplification By Reversible Exchange (SABRE). ChemistryOpen, 2019, 8, 1375-1382.	0.9	8
38	Benchtop NMR analysis of piperazine-based drugs hyperpolarised by SABRE. Magnetic Resonance in Chemistry, 2020, 58, 1151-1159.	1.1	8
39	Synthesis, characterisation, detection and quantification of a novel hexyl-substituted synthetic cannabinoid receptor agonist: (S)-N-(1-amino-3,3-dimethyl-1-oxobutan-2-yl)-1-hexyl-1H-indazole-3-carboxamide (ADB-HINACA). Forensic Chemistry, 2021, 26, 100354.	1.7	8
40	Bacterial dominance is due to effective utilisation of secondary metabolites produced by competitors. Scientific Reports, 2020, 10, 2316.	1.6	7
41	Detection, discrimination and quantification of amphetamine, cathinone and <i>nor</i> -ephedrine regioisomers using benchtop ¹ H and ¹⁹ F nuclear magnetic resonance spectroscopy. Magnetic Resonance in Chemistry, 2023, 61, 73-82.	1.1	7
42	Rapid SABRE Catalyst Scavenging Using Functionalized Silicas. Molecules, 2022, 27, 332.	1.7	5
43	Guilty by dissociation: Part B: evaluation of Supercritical Fluid Chromatography (SFC-UV) for the analysis of regioisomeric diphenidine-derived Novel Psychoactive Substances (NPS). Journal of Pharmaceutical and Biomedical Analysis, 2022, 216, 114797.	1.4	4
44	Crystal structure of 2,4-di- <i>tert</i> -butyl-6-(hydroxymethyl)phenol. Acta Crystallographica Section E: Crystallographic Communications, 2016, 72, 1614-1617.	0.2	2
45	1,8-bis(2-hydroxy-3,5-di- <i>tert</i> -butylbenzyl)-4,11-dibenzyl-1,4,8,11-tetraazacyclotetradecane. MolBank, 2017, 2017, M963.	0.2	2
46	Side-bridged cyclam transition metal complexes bearing a phenolic ether or a phenolate pendent arm. Polyhedron, 2019, 171, 578-589.	1.0	2
47	Hyperpolarisation of Mirfentanil by SABRE in the Presence of Heroin. ChemPhysChem, 2021, 22, 1059-1064.	1.0	2
48	Guilty by dissociation: Part A: Development of a rapid Ultra-High Performance Liquid Chromatography (UHPLC)-MS/MS methodology for the analysis of regioisomeric diphenidine-derived Novel Psychoactive Substances (NPS). Journal of Pharmaceutical and Biomedical Analysis, 2022, 216, 114798.	1.4	2
49	Signal amplification by reversible exchange (SABRE). Magnetic Resonance in Chemistry, 2021, 59, 1175-1176.	1.1	0