Gareth A Morris

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252 papers	10,023 citations	48 h-index	91 g-index
279 ext. papers	10,755 ext. citations	5.5 avg, IF	6.2 L-index

#	Paper	IF	Citations
252	Enhancement of nuclear magnetic resonance signals by polarization transfer. *Journal of the American Chemical Society*, **1979**, 101, 760-762	16.4	1689
251	Sensitivity enhancement in nitrogen-15 NMR: polarization transfer using the INEPT pulse sequence. *Journal of the American Chemical Society*, **1980**, 102, 428-429	16.4	320
250	Pure shift 1H NMR: a resolution of the resolution problem?. *Angewandte Chemie - International Edition*, **2010**, 49, 3901-3	16.4	208
249	A one-shot sequence for high-resolution diffusion-ordered spectroscopy. *Magnetic Resonance in Chemistry*, **2002**, 40, S147-S152	2.1	207
248	Ultrahigh-resolution NMR spectroscopy. *Angewandte Chemie - International Edition*, **2014**, 53, 6990-2	16.4	201
247	An improved method for heteronuclear chemical shift correlation by two-dimensional NMR. *Journal of Magnetic Resonance*, **1981**, 42, 501-505		192
246	High-Resolution Diffusion-Ordered 2D Spectroscopy (HR-DOSY) - A New Tool for the Analysis of Complex Mixtures. *Journal of Magnetic Resonance Series B*, **1995**, 108, 170-172		186
245	Spin echo NMR spectra without J modulation. *Chemical Communications*, **2012**, 48, 811-3	5.8	175
244	Pulse sequences for high-resolution diffusion-ordered spectroscopy (HR-DOSY). *Magnetic Resonance in Chemistry*, **1998**, 36, 706-714	2.1	165
243	Experimental chemical shift correlation maps in nuclear magnetic resonance spectroscopy. *Journal of the Chemical Society Chemical Communications*, **1978**, 684		162
242	Pure shift proton DOSY: diffusion-ordered 1H spectra without multiplet structure. *Chemical Communications*, **2007**, 933-5	5.8	150
241	Modern NMR techniques for structure elucidation. *Magnetic Resonance in Chemistry*, **1986**, 24, 371-403	2.1	150
240	Selective excitation in Fourier transform nuclear magnetic resonance. *Journal of Magnetic Resonance*, **1978**, 29, 433-462		149
239	Reference deconvolution methods. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **1997**, 31, 197-257	25.4	146
238	Simultaneously enhancing spectral resolution and sensitivity in heteronuclear correlation NMR spectroscopy. *Angewandte Chemie - International Edition*, **2013**, 52, 11616-9	16.4	141
237	Quantitative interpretation of diffusion-ordered NMR spectra: can we rationalize small molecule diffusion coefficients?. *Angewandte Chemie - International Edition*, **2013**, 52, 3199-202	16.4	140
236	Experimental chemical shift correlation maps from heteronuclear two-dimensional NMR spectroscopy. 1. Carbon-13 and proton chemical shifts of raffinose and its subunits. *Journal of the American Chemical Society*, **1981**, 103, 4703-4711	16.4	111

235	Correlation of proton chemical shifts by two-dimensional Fourier transform NMR. *Journal of Magnetic Resonance*, **1981**, 42, 164-168		106
234	Improving the accuracy of pulsed field gradient NMR diffusion experiments: Correction for gradient non-uniformity. *Journal of Magnetic Resonance*, **2009**, 198, 121-31	3	105
233	A three-dimensional DOSY-HMQC experiment for the high-resolution analysis of complex mixtures. *Journal of Magnetic Resonance*, **1998**, 131, 131-8	3	105
232	Simple proton spectra from complex spin systems: pure shift NMR spectroscopy using BIRD. *Angewandte Chemie - International Edition*, **2011**, 50, 9716-7	16.4	101
231	High-resolution NMR and diffusion-ordered spectroscopy of port wine. *Journal of Agricultural and Food Chemistry*, **2004**, 52, 3736-43	5.7	101
230	True chemical shift correlation maps: a TOCSY experiment with pure shifts in both dimensions. *Journal of the American Chemical Society*, **2010**, 132, 12770-2	16.4	98
229	Biexponential fitting of diffusion-ordered NMR data: practicalities and limitations. *Analytical Chemistry*, **2006**, 78, 3040-5	7.8	97
228	Ultrahigh-resolution total correlation NMR spectroscopy. *Journal of the American Chemical Society*, **2014**, 136, 11867-9	16.4	96
227	Quantifying end-to-end conformational communication of chirality through an achiral peptide chain. *Angewandte Chemie - International Edition*, **2009**, 48, 5962-5	16.4	92
226	Decoupling two-dimensional NMR spectroscopy in both dimensions: pure shift NOESY and COSY. *Angewandte Chemie - International Edition*, **2012**, 51, 6460-3	16.4	90
225	Foldamer-mediated remote stereocontrol: >1,60 asymmetric induction. *Angewandte Chemie - International Edition*, **2014**, 53, 151-5	16.4	87
224	Speedy component resolution: an improved tool for processing diffusion-ordered spectroscopy data. *Analytical Chemistry*, **2008**, 80, 3777-82	7.8	83
223	"Perfecting" WATERGATE: clean proton NMR spectra from aqueous solution. *Chemical Communications*, **2013**, 49, 358-60	5.8	79
222	Helix persistence and breakdown in oligoureas of metaphenylenediamine: apparent diastereotopicity as a spectroscopic marker of helix length in solution. *Journal of the American Chemical Society*, **2008**, 130, 15193-202	16.4	74
221	One-dimensional DOSY. *Journal of Magnetic Resonance*, **2001**, 153, 103-12	3	74
220	Matrix-assisted diffusion-ordered spectroscopy: mixture resolution by NMR using SDS micelles. *Magnetic Resonance in Chemistry*, **2010**, 48, 550-3	2.1	69
219	Measuring couplings in crowded NMR spectra: pure shift NMR with multiplet analysis. *Chemical Communications*, **2015**, 51, 15410-3	5.8	67
218	Measuring screw-sense preference in a helical oligomer by comparison of 13C NMR signal separation at slow and fast exchange. *Journal of the American Chemical Society*, **2011**, 133, 3712-5	16.4	67

217	Resolution and assignment of the 270-MHz proton spectrum of cellobiose by homo- and heteronuclear two-dimensional NMR. *Journal of the American Chemical Society*, **1980**, 102, 1745-1747	16.4	66
216	Sample convection in liquid-state NMR: why it is always with us, and what we can do about it. *Journal of Magnetic Resonance*, **2015**, 252, 120-9	3	64
215	Improving the Interpretation of Small Molecule Diffusion Coefficients. *Analytical Chemistry*, **2018**, 90, 3987-3994	7.8	63
214	Isomer resolution by micelle-assisted diffusion-ordered spectroscopy. *Analytical Chemistry*, **2009**, 81, 4548-50	7.8	63
213	Improving pulse sequences for 3D diffusion-ordered NMR spectroscopy: 2DJ-IDOSY. *Analytical Chemistry*, **2004**, 76, 5418-22	7.8	63
212	Diastereomeric ratio determination by high sensitivity band-selective pure shift NMR spectroscopy. *Chemical Communications*, **2014**, 50, 2512-4	5.8	60
211	Local covariance order diffusion-ordered spectroscopy: a powerful tool for mixture analysis. *Journal of the American Chemical Society*, **2011**, 133, 7640-3	16.4	59
210	A General Method for Extracting Individual Coupling Constants from Crowded (1)H NMR Spectra. *Angewandte Chemie - International Edition*, **2016**, 55, 1090-3	16.4	59
209	J-modulation effects in DOSY experiments and their suppression: the Oneshot45 experiment. *Journal of Magnetic Resonance*, **2011**, 208, 270-8	3	54
208	Improving pulse sequences for 3D DOSY: COSY-IDOSY. *Chemical Communications*, **2005**, 1737-9	5.8	54
207	Simultaneous enhancement of chemical shift dispersion and diffusion resolution in mixture analysis by diffusion-ordered NMR spectroscopy. *Chemical Communications*, **2011**, 47, 7063-4	5.8	52
206	2D and 3D DOSY methods for studying mixtures of oligomeric dimethylsiloxanes. *Physical Chemistry Chemical Physics*, **2004**, 6, 3221	3.6	52
205	A simple pulse sequence for selective excitation in Fourier transform NMR. *Journal of Magnetic Resonance*, **1976**, 23, 171-175		51
204	Accurate determination of one-bond heteronuclear coupling constants with "pure shift" broadband proton-decoupled CLIP/CLAP-HSQC experiments. *Journal of Magnetic Resonance*, **2014**, 239, 130-8	3	46
203	Conformational Switching of a Foldamer in a Multicomponent System by pH-Filtered Selection between Competing Noncovalent Interactions. *Journal of the American Chemical Society*, **2015**, 137, 6680-91	16.4	44
202	Ultrahigh-Resolution Diffusion-Ordered Spectroscopy. *Angewandte Chemie - International Edition*, **2016**, 55, 15579-15582	16.4	44
201	"Perfecting" pure shift HSQC: full homodecoupling for accurate and precise determination of heteronuclear couplings. *Chemical Communications*, **2014**, 50, 15702-5	5.8	44
200	Residue-specific NH exchange rates studied by NMR diffusion experiments. *Journal of Magnetic Resonance*, **2007**, 187, 97-104	3	42

199	Indirect measurement of proton relaxation rates by INEPT polarization transfer to carbon-13: Proton spin-lattice relaxation in cholesteryl acetate solutions. *Journal of Magnetic Resonance*, **1980**, 41, 185-188		42
198	Acid-catalyzed degradation of clarithromycin and erythromycin B: a comparative study using NMR spectroscopy. *Journal of Medicinal Chemistry*, **2000**, 43, 467-74	8.3	41
197	The catalytic resting state of asymmetric homogeneous hydrogenation. Exchange processes delineated by nuclear magnetic resonance saturation-transfer (DANTE) techniques. *Journal of the Chemical Society Perkin Transactions II*, **1987**, 1583		41
196	Measurement of carbon-13-proton coupling-constants in oligosaccharides by two-dimensional carbon-13 N.M.R. spectroscopy. *Carbohydrate Research*, **1980**, 82, 175-184	2.9	41
195	Resolving natural product epimer spectra by matrix-assisted DOSY. *Organic and Biomolecular Chemistry*, **2011**, 9, 7062-4	3.9	40
194	Improving pulse sequences for 3D DOSY: convection compensation. *Journal of Magnetic Resonance*, **2005**, 177, 203-11	3	39
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192	The GNAT: A new tool for processing NMR data. *Magnetic Resonance in Chemistry*, **2018**, 56, 546-558	2.1	38
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182	Ultrahigh-Resolution NMR Spectroscopy. *Angewandte Chemie*, **2014**, 126, 7110-7112	3.6	34

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178	Direct observation of the magnetization exchange dynamics responsible for magnetization transfer contrast in human cartilage in vitro. *Magnetic Resonance in Medicine*, **1992**, 28, 97-104	4.4	33
177	Flaws in foldamers: conformational uniformity and signal decay in achiral helical peptide oligomers. *Chemical Science*, **2015**, 6, 2313-2322	9.4	32
176	Novel artemisinin and curcumin micellar formulations: drug solubility studies by NMR spectroscopy. *Journal of Pharmaceutical Sciences*, **2009**, 98, 3666-75	3.9	32
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174	Application of 31P-NMR saturation transfer techniques to investigate phospholipid motion and organization in model and biological membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **1980**, 598, 206-11	3.8	32
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170	Suppressing exchange effects in diffusion-ordered NMR spectroscopy. *Journal of Magnetic Resonance*, **2014**, 238, 16-9	3	29
169	Quantitative Interpretation of Diffusion-Ordered NMR Spectra: Can We Rationalize Small Molecule Diffusion Coefficients?. *Angewandte Chemie*, **2013**, 125, 3281-3284	3.6	29
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159	The Behavior of Multiplet Signals under Radiation Damping Conditions. I. Classical Effects. *Journal of Magnetic Resonance Series A*, **1995**, 117, 109-112		26
158	Real-time pure shift HSQC of proteins: a real improvement in resolution and sensitivity. *Journal of Biomolecular NMR*, **2015**, 62, 43-52	3	25
157	T1-diffusion-ordered spectroscopy: nuclear magnetic resonance mixture analysis using parallel factor analysis. *Analytical Chemistry*, **2009**, 81, 8119-25	7.8	25
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142	A new tool for NMR analysis of complex systems: selective pure shift TOCSY. *RSC Advances*, **2016**, 6, 100663-100666	3.7	21
141	Improving accuracy in DOSY and diffusion measurements using triaxial field gradients. *Journal of Magnetic Resonance*, **2016**, 270, 24-30	3	20
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139	Suppression of artefacts in nuclear overhauser effect difference spectroscopy by reference deconvolution. *Magnetic Resonance in Chemistry*, **1989**, 27, 1085-1089	2.1	20
138	Very broadband diffusion-ordered NMR spectroscopy: (19)F DOSY. *Chemical Communications*, **2016**, 52, 6892-4	5.8	20
137	Anatomising proton NMR spectra with pure shift 2D J-spectroscopy: A cautionary tale. *Chemical Physics Letters*, **2017**, 683, 398-403	2.5	19
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135	Diffusion-Ordered Spectroscopy **2009**,		19
134	Improved DECRA processing of DOSY data: correcting for non-uniform field gradients. *Magnetic Resonance in Chemistry*, **2007**, 45, 656-60	2.1	19
133	Reference Deconvolution Using Multiplet Reference Signals. *Journal of Magnetic Resonance Series A* , **1995**, 116, 206-214		19
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127	Cleaning up NMR spectra with reference deconvolution for improving multivariate analysis of complex mixture spectra. *Journal of Chemometrics*, **2014**, 28, 656-662	1.6	17
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124	Synthesis of (1,2-benzenediolato(2-)-O,O')oxobis(1-piperidinolato(1-)-O,N)molybdenum(VI), [MoO(C5H10NO)2(C6H4O2)], and structure determination by correlated proton-carbon-13 two-dimensional NMR spectroscopy and x-ray crystallography. *Inorganic Chemistry*, **1985**, 24, 4070-4077	5.1	17
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122	Pure shift 1H NMR, a robust method for revealing heteronuclear couplings in complex spectra. *RSC Advances*, **2014**, 4, 8278-8282	3.7	16
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120	Design, synthesis, and evaluation of stable and taste-free erythromycin proprodrugs. *Journal of Medicinal Chemistry*, **2005**, 48, 3878-84	8.3	16
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114	Analysis of virtual one-bond coupling effects in heteronuclear chemical shift correlation 2D N.M.R. spectra. *Molecular Physics*, **1987**, 61, 467-483	1.7	15
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