

Mathias Nilsson

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.

118
papers

4,690
citations

39
h-index

64
g-index

123
ext. papers

5,132
ext. citations

5.8
avg, IF

5.78
L-index

#	Paper	IF	Citations
118	Signal-to-noise ratio in diffusion-ordered spectroscopy: how good is good enough?. <i>Magnetic Resonance</i> , 2021 , 2, 733-739	2.9	1
117	Single-Scan Selective Excitation of Individual NMR Signals in Overlapping Multiplets. <i>Angewandte Chemie</i> , 2021 , 133, 676-679	3.6	2
116	Single-Scan Selective Excitation of Individual NMR Signals in Overlapping Multiplets. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 666-669	16.4	7
115	Single-scan ultra-selective 1D total correlation spectroscopy. <i>Chemical Communications</i> , 2021 , 57, 2368-2371	3.7	2
114	Broadband measurement of true transverse relaxation rates in systems with coupled protons: application to the study of conformational exchange. <i>Chemical Science</i> , 2021 , 12, 11538-11547	9.4	3
113	SABRE-enhanced real-time pure shift NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2021 , 59, 1244-1252	2.1	0
112	Improving the Sensitivity of FESTA Methods for the Analysis of Fluorinated Mixtures. <i>Analytical Chemistry</i> , 2020 , 92, 2224-2228	7.8	4
111	Dissect and Divide: Putting NMR Spectra of Mixtures under the Knife. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5766-5771	16.4	13
110	Improved ultra-broadband chirp excitation. <i>Journal of Magnetic Resonance</i> , 2019 , 302, 28-33	3	10
109	Sharpening Up Your Spectra: Broadband Homonuclear Decoupling in HSQC by Real-Time Pure Shift Acquisition. <i>Synlett</i> , 2019 , 30, 1015-1025	2.2	3
108	High resolution techniques: general discussion. <i>Faraday Discussions</i> , 2019 , 218, 247-267	3.6	3
107	Revealing Well-Defined Soluble States during Amyloid Fibril Formation by Multilinear Analysis of NMR Diffusion Data. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18649-18652	16.4	2
106	Improving the Interpretation of Small Molecule Diffusion Coefficients. <i>Analytical Chemistry</i> , 2018 , 90, 3987-3994	7.8	63
105	The GNAT: A new tool for processing NMR data. <i>Magnetic Resonance in Chemistry</i> , 2018 , 56, 546-558	2.1	38
104	Practical aspects of real-time pure shift HSQC experiments. <i>Magnetic Resonance in Chemistry</i> , 2018 , 56, 993-1005	2.1	13
103	FESTA: An Efficient Nuclear Magnetic Resonance Approach for the Structural Analysis of Mixtures Containing Fluorinated Species. <i>Analytical Chemistry</i> , 2018 , 90, 5445-5450	7.8	10
102	PSYCHE Pure Shift NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2018 , 24, 13988-14000	4.8	36

101	Suppression of C satellites in H DOSY spectra. <i>Journal of Magnetic Resonance</i> , 2018 , 295, 6-11	3	
100	Frontispiece: PSYCHE Pure Shift NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2018 , 24,	4.8	1
99	Unexploited Dimension: New Software for Mixture Analysis by 3D Diffusion-Ordered NMR Spectroscopy. <i>Analytical Chemistry</i> , 2018 , 90, 13695-13701	7.8	9
98	Semi-real-time acquisition for fast pure shift NMR at maximum resolution. <i>Journal of Magnetic Resonance</i> , 2018 , 293, 19-27	3	11
97	Synthesis of Multivalent [Lys8]-Oxytocin Dendrimers that Inhibit Visceral Nociceptive Responses. <i>Australian Journal of Chemistry</i> , 2017 , 70, 162	1.2	6
96	Anatomising proton NMR spectra with pure shift 2D J-spectroscopy: A cautionary tale. <i>Chemical Physics Letters</i> , 2017 , 683, 398-403	2.5	19
95	Matrix-assisted diffusion-ordered NMR spectroscopy with an invisible matrix: a vanishing surfactant. <i>RSC Advances</i> , 2017 , 7, 449-452	3.7	11
94	Matrix-assisted diffusion-ordered NMR spectroscopy with an invisible, tuneable matrix. <i>RSC Advances</i> , 2017 , 7, 10757-10762	3.7	2
93	Relaxation-encoded NMR experiments for mixture analysis: REST and beer. <i>Chemical Communications</i> , 2017 , 53, 7461-7464	5.8	17
92	C Satellite-Free H NMR Spectra. <i>Analytical Chemistry</i> , 2017 , 89, 11898-11901	7.8	9
91	Ultraclean pure shift NMR. <i>Chemical Communications</i> , 2017 , 53, 10188-10191	5.8	34
90	¹ H and ¹⁹ F NMR in drug stress testing: the case of voriconazole. <i>RSC Advances</i> , 2017 , 7, 34000-34004	3.7	5
89	F NMR matrix-assisted DOSY: a versatile tool for differentiating fluorinated species in mixtures. <i>Magnetic Resonance in Chemistry</i> , 2017 , 55, 323-328	2.1	10
88	Extraction of distance restraints from pure shift NOE experiments. <i>Journal of Magnetic Resonance</i> , 2016 , 271, 99-109	3	11
87	Matrix-assisted diffusion-ordered spectroscopy: choosing a matrix. <i>Magnetic Resonance in Chemistry</i> , 2016 , 54, 815-820	2.1	13
86	Ultrahigh-Resolution Diffusion-Ordered Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15579-15582	16.4	44
85	Improving accuracy in DOSY and diffusion measurements using triaxial field gradients. <i>Journal of Magnetic Resonance</i> , 2016 , 270, 24-30	3	20
84	Increasing the quantitative bandwidth of NMR measurements. <i>Chemical Communications</i> , 2016 , 52, 29165-29168	3.8	34

83	Clearing the undergrowth: detection and quantification of low level impurities using F NMR. <i>Chemical Communications</i> , 2016 , 53, 123-125	5.8	5
82	Ultrahigh-Resolution Diffusion-Ordered Spectroscopy. <i>Angewandte Chemie</i> , 2016 , 128, 15808-15811	3.6	9
81	A General Method for Extracting Individual Coupling Constants from Crowded ¹ H NMR Spectra. <i>Angewandte Chemie</i> , 2016 , 128, 1102-1105	3.6	12
80	Very broadband diffusion-ordered NMR spectroscopy: (¹⁹ F) DOSY. <i>Chemical Communications</i> , 2016 , 52, 6892-4	5.8	20
79	A General Method for Extracting Individual Coupling Constants from Crowded (¹ H) NMR Spectra. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1090-3	16.4	59
78	Real-time broadband proton-homodecoupled CLIP/CLAP-HSQC for automated measurement of heteronuclear one-bond coupling constants. <i>RSC Advances</i> , 2016 , 6, 87848-87855	3.7	15
77	Convection in liquid-state NMR: expect the unexpected. <i>RSC Advances</i> , 2016 , 6, 95173-95176	3.7	32
76	A new tool for NMR analysis of complex systems: selective pure shift TOCSY. <i>RSC Advances</i> , 2016 , 6, 100063-100066	3.7	15
75	Minimising research bottlenecks by decluttering NMR spectra. <i>Chemistry - A European Journal</i> , 2015 , 21, 6623-30	4.8	22
74	Real-time pure shift ¹ H HSQC of proteins: a real improvement in resolution and sensitivity. <i>Journal of Biomolecular NMR</i> , 2015 , 62, 43-52	3	25
73	Measuring couplings in crowded NMR spectra: pure shift NMR with multiplet analysis. <i>Chemical Communications</i> , 2015 , 51, 15410-3	5.8	67
72	Analysing DHPC/DMPC bicelles by diffusion NMR and multivariate decomposition. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 2910-7	3.8	20
71	Ultra-high dispersion NMR reveals new levels of detail. <i>RSC Advances</i> , 2015 , 5, 52902-52906	3.7	4
70	Sample convection in liquid-state NMR: why it is always with us, and what we can do about it. <i>Journal of Magnetic Resonance</i> , 2015 , 252, 120-9	3	64
69	Precise measurement of long-range heteronuclear coupling constants by a novel broadband proton-proton-decoupled CPMG-HSQC method. <i>Chemistry - A European Journal</i> , 2015 , 21, 3472-9	4.8	15
68	¹⁹ F DOSY NMR analysis for spin systems with nJFF couplings. <i>Magnetic Resonance in Chemistry</i> , 2014 , 52, 172-7	2.1	24
67	Ultrahigh-resolution NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6990-2	16.4	201
66	Suppressing exchange effects in diffusion-ordered NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2014 , 238, 16-9	3	29

65	"Perfecting" pure shift HSQC: full homodecoupling for accurate and precise determination of heteronuclear couplings. <i>Chemical Communications</i> , 2014 , 50, 15702-5	5.8	44
64	Diastereomeric ratio determination by high sensitivity band-selective pure shift NMR spectroscopy. <i>Chemical Communications</i> , 2014 , 50, 2512-4	5.8	60
63	Natural product mixture analysis by matrix-assisted DOSY using Brij surfactants in mixed solvents. <i>RSC Advances</i> , 2014 , 4, 42029-42034	3.7	12
62	Structure-revealing data fusion. <i>BMC Bioinformatics</i> , 2014 , 15, 239	3.6	61
61	(1)H NMR spectroscopy for profiling complex carbohydrate mixtures in non-fractionated beer. <i>Food Chemistry</i> , 2014 , 150, 65-72	8.5	16
60	Ultrahigh-resolution total correlation NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11867-9	16.4	96
59	Accurate determination of one-bond heteronuclear coupling constants with "pure shift" broadband proton-decoupled CLIP/CLAP-HSQC experiments. <i>Journal of Magnetic Resonance</i> , 2014 , 239, 130-8	3	46
58	Cleaning up NMR spectra with reference deconvolution for improving multivariate analysis of complex mixture spectra. <i>Journal of Chemometrics</i> , 2014 , 28, 656-662	1.6	17
57	Ultrahigh-Resolution NMR Spectroscopy. <i>Angewandte Chemie</i> , 2014 , 126, 7110-7112	3.6	34
56	Probing interactions between β -glucan and bile salts at atomic detail by ^1H - ^{13}C NMR assays. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 11472-8	5.7	13
55	Resolving complex mixtures: trilinear diffusion data. <i>Journal of Biomolecular NMR</i> , 2014 , 58, 251-7	3	13
54	Simultaneously enhancing spectral resolution and sensitivity in heteronuclear correlation NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11616-9	16.4	141
53	Breath metabolomic profiling by nuclear magnetic resonance spectroscopy in asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2013 , 68, 1050-6	9.3	36
52	Filter diagonalization method for processing PFG NMR data. <i>Journal of Magnetic Resonance</i> , 2013 , 234, 125-34	3	19
51	Unmixing the NMR spectra of similar species - vive la différence. <i>Chemical Communications</i> , 2013 , 49, 10510-2	5.8	35
50	Diffusion studies of dihydroxybenzene isomers in water-alcohol systems. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 2734-41	3.4	25
49	Tailoring kappa/iota-hybrid carrageenan from <i>Mastocarpus stellatus</i> with desired gel quality through pre-extraction alkali treatment. <i>Food Hydrocolloids</i> , 2013 , 31, 94-102	10.6	43
48	"Perfecting" WATERGATE: clean proton NMR spectra from aqueous solution. <i>Chemical Communications</i> , 2013 , 49, 358-60	5.8	79

47	Quantitative interpretation of diffusion-ordered NMR spectra: can we rationalize small molecule diffusion coefficients?. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3199-202	16.4	140
46	Simultaneously Enhancing Spectral Resolution and Sensitivity in Heteronuclear Correlation NMR Spectroscopy. <i>Angewandte Chemie</i> , 2013 , 125, 11830-11833	3.6	24
45	Quantitative Interpretation of Diffusion-Ordered NMR Spectra: Can We Rationalize Small Molecule Diffusion Coefficients?. <i>Angewandte Chemie</i> , 2013 , 125, 3281-3284	3.6	29
44	Detection of potential TNA and RNA nucleoside precursors in a prebiotic mixture by pure shift diffusion-ordered NMR spectroscopy. <i>Chemistry - A European Journal</i> , 2013 , 19, 4586-95	4.8	27
43	Spin echo NMR spectra without J modulation. <i>Chemical Communications</i> , 2012 , 48, 811-3	5.8	175
42	Flavonoid mixture analysis by matrix-assisted diffusion-ordered spectroscopy. <i>Journal of Natural Products</i> , 2012 , 75, 131-4	4.9	36
41	Matrix-assisted diffusion-ordered spectroscopy: application of surfactant solutions to the resolution of isomer spectra. <i>Magnetic Resonance in Chemistry</i> , 2012 , 50, 458-65	2.1	18
40	Decoupling Two-Dimensional NMR Spectroscopy in Both Dimensions: Pure Shift NOESY and COSY. <i>Angewandte Chemie</i> , 2012 , 124, 6566-6569	3.6	23
39	Decoupling two-dimensional NMR spectroscopy in both dimensions: pure shift NOESY and COSY. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6460-3	16.4	90
38	Local covariance order diffusion-ordered spectroscopy: a powerful tool for mixture analysis. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7640-3	16.4	59
37	Simultaneous enhancement of chemical shift dispersion and diffusion resolution in mixture analysis by diffusion-ordered NMR spectroscopy. <i>Chemical Communications</i> , 2011 , 47, 7063-4	5.8	52
36	Resolving natural product epimer spectra by matrix-assisted DOSY. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 7062-4	3.9	40
35	Simple Proton Spectra from Complex Spin Systems: Pure Shift NMR Spectroscopy Using BIRD. <i>Angewandte Chemie</i> , 2011 , 123, 9890-9891	3.6	38
34	Simple proton spectra from complex spin systems: pure shift NMR spectroscopy using BIRD. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9716-7	16.4	101
33	A donor-functionalized, silyl-substituted pentadienyllithium: structural insight from experiment and theory. <i>Chemical Communications</i> , 2011 , 47, 6162-4	5.8	13
32	J-modulation effects in DOSY experiments and their suppression: the Oneshot45 experiment. <i>Journal of Magnetic Resonance</i> , 2011 , 208, 270-8	3	54
31	High resolution ¹³ C DOSY: the DEPTSE experiment. <i>Journal of Magnetic Resonance</i> , 2011 , 211, 25-9	3	30
30	True chemical shift correlation maps: a TOCSY experiment with pure shifts in both dimensions. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12770-2	16.4	98

29	Reaction kinetics studied using diffusion-ordered spectroscopy and multiway chemometrics. <i>Analytical Chemistry</i> , 2010 , 82, 2102-8	7.8	28
28	Production and properties of agar from the invasive marine alga, <i>Gracilaria vermiculophylla</i> (Gracilariales, Rhodophyta). <i>Journal of Applied Phycology</i> , 2010 , 22, 211-220	3.2	58
27	Pure Shift 1H NMR: A Resolution of the Resolution Problem?. <i>Angewandte Chemie</i> , 2010 , 122, 3993-3995	3.6	49
26	Pure shift 1H NMR: a resolution of the resolution problem?. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3901-3	16.4	208
25	Matrix-assisted diffusion-ordered spectroscopy: mixture resolution by NMR using SDS micelles. <i>Magnetic Resonance in Chemistry</i> , 2010 , 48, 550-3	2.1	69
24	Novel artemisinin and curcumin micellar formulations: drug solubility studies by NMR spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 3666-75	3.9	32
23	Improving the accuracy of pulsed field gradient NMR diffusion experiments: Correction for gradient non-uniformity. <i>Journal of Magnetic Resonance</i> , 2009 , 198, 121-31	3	105
22	The DOSY Toolbox: a new tool for processing PFG NMR diffusion data. <i>Journal of Magnetic Resonance</i> , 2009 , 200, 296-302	3	144
21	Isomer resolution by micelle-assisted diffusion-ordered spectroscopy. <i>Analytical Chemistry</i> , 2009 , 81, 4548-50	7.8	63
20	T1-diffusion-ordered spectroscopy: nuclear magnetic resonance mixture analysis using parallel factor analysis. <i>Analytical Chemistry</i> , 2009 , 81, 8119-25	7.8	25
19	Diffusion NMR and trilinear analysis in the study of reaction kinetics. <i>Chemical Communications</i> , 2009 , 1252-4	5.8	33
18	Speedy component resolution: an improved tool for processing diffusion-ordered spectroscopy data. <i>Analytical Chemistry</i> , 2008 , 80, 3777-82	7.8	83
17	The structural plasticity of heparan sulfate NA-domains and hence their role in mediating multivalent interactions is confirmed by high-accuracy (15)N-NMR relaxation studies. <i>Glycoconjugate Journal</i> , 2008 , 25, 401-14	3	35
16	Pure shift proton DOSY: diffusion-ordered 1H spectra without multiplet structure. <i>Chemical Communications</i> , 2007 , 933-5	5.8	150
15	Improved DECRA processing of DOSY data: correcting for non-uniform field gradients. <i>Magnetic Resonance in Chemistry</i> , 2007 , 45, 656-60	2.1	19
14	Correction of systematic errors in CORE processing of DOSY data. <i>Magnetic Resonance in Chemistry</i> , 2006 , 44, 655-60	2.1	28
13	Biexponential fitting of diffusion-ordered NMR data: practicalities and limitations. <i>Analytical Chemistry</i> , 2006 , 78, 3040-5	7.8	97
12	Improving pulse sequences for 3D DOSY: COSY-IDOSY. <i>Chemical Communications</i> , 2005 , 1737-9	5.8	54

11	Improving pulse sequences for 3D DOSY: convection compensation. <i>Journal of Magnetic Resonance</i> , 2005 , 177, 203-11	3	39
10	Linear and non-linear spectroscopy of Ho ³⁺ -doped YVO ₄ and LuVO ₄ . <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 6751-6762	1.8	3
9	Hyperfine structure and homogeneous broadening in Pr ³⁺ :KY(WO ₄) ₂ . <i>Physical Review B</i> , 2004 , 70,	3.3	6
8	High-resolution NMR and diffusion-ordered spectroscopy of port wine. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 3736-43	5.7	101
7	Improving pulse sequences for 3D diffusion-ordered NMR spectroscopy: 2DJ-IDOSY. <i>Analytical Chemistry</i> , 2004 , 76, 5418-22	7.8	63
6	2D and 3D DOSY methods for studying mixtures of oligomeric dimethylsiloxanes. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 3221	3.6	52
5	Heterogeneity in a water-extractable rye arabinoxylan with a low degree of disubstitution. <i>Carbohydrate Polymers</i> , 2000 , 41, 397-405	10.3	34
4	Arabinoxylan fractionation on DEAE-cellulose chromatography influenced by protease pre-treatment. <i>Carbohydrate Polymers</i> , 1999 , 39, 321-326	10.3	8
3	Nutrient and lignan content, dough properties and baking performance of rye samples used in Scandinavia. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 1997 , 47, 26-34	1.1	11
2	Content of Nutrients and Lignans in Roller Milled Fractions of Rye. <i>Journal of the Science of Food and Agriculture</i> , 1997 , 73, 143-148	4.3	91
1	Water unextractable polysaccharides from three milling fractions of rye grain. <i>Carbohydrate Polymers</i> , 1996 , 30, 229-237	10.3	53