List of Publications by Year in descending order

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Ιινλ Κιισρον

#	Article	IF	CITATIONS
1	<i>J</i> -Driven dynamic nuclear polarization for sensitizing high field solution state NMR. Physical Chemistry Chemical Physics, 2022, 24, 2118-2125.	2.8	6
2	Theoretical analysis of scalar relaxation in 13C-DNP in liquids. Journal of Magnetic Resonance Open, 2022, 10-11, 100040.	1.1	6
3	Concurrent J-Evolving Refocusing Pulses. Journal of Magnetic Resonance, 2022, 336, 107152.	2.1	5
4	Neural networks in pulsed dipolar spectroscopy: A practical guide. Journal of Magnetic Resonance, 2022, 338, 107186.	2.1	18
5	SORDOR pulses: expansion of the Böhlen–Bodenhausen scheme for low-power broadband magnetic resonance. Magnetic Resonance, 2022, 3, 53-63.	1.9	5
6	Using molecular dynamics trajectories to predict nuclear spin relaxation behaviour in large spin systems. Journal of Magnetic Resonance, 2021, 323, 106891.	2.1	4
7	Neural network interpretation using descrambler groups. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
8	High-field solution state DNP using cross-correlations. Journal of Magnetic Resonance, 2021, 326, 106940.	2.1	7
9	Observability of Paramagnetic NMR Signals at over 10 000 ppm Chemical Shifts. Angewandte Chemie - International Edition, 2021, 60, 22856-22864.	13.8	17
10	Observability of paramagnetic NMR signals at over 10 000 ppm chemical shifts. Angewandte Chemie, 2021, 133, 23038.	2.0	1
11	Benchmark Test and Guidelines for DEER/PELDOR Experiments on Nitroxide-Labeled Biomolecules. Journal of the American Chemical Society, 2021, 143, 17875-17890.	13.7	124
12	Can optimised pulses improve the sensitivity of atom interferometers?. , 2021, , .		0
13	Heteronuclear transfers from labile protons in biomolecular NMR: Cross polarization, revisited. Journal of Magnetic Resonance, 2021, 333, 107083.	2.1	3
14	Optimal control gradient precision trade-offs: application to fast generation of DeepControl libraries for MRI. Journal of Magnetic Resonance, 2021, 333, 107094.	2.1	3
15	Fluorine NMR study of proline-rich sequences using fluoroprolines. Magnetic Resonance, 2021, 2, 795-813.	1.9	3
16	Coherence transfer delay optimisation in PSYCOSY experiments. Magnetic Resonance in Chemistry, 2020, 58, 51-55.	1.9	1
17	How the Ligand Field in Lanthanide Coordination Complexes Determines Magnetic Susceptibility Anisotropy, Paramagnetic NMR Shift, and Relaxation Behavior. Accounts of Chemical Research, 2020, 53, 1520-1534.	15.6	109
18	Strategies for 1 Hâ€Detected Dynamic Nuclear Polarization Magicâ€Angle Spinning NMR Spectroscopy. Chemistry - A European Journal, 2020, 26, 15852-15854.	3.3	1

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19	Biselective pulses for large-area atom interferometry. Physical Review A, 2020, 101, .	2.5	14
20	Optimal control of Raman pulse sequences for atom interferometry. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 085006.	1.5	33
21	Second order phase dispersion by optimized rotation pulses. Physical Review Research, 2020, 2, .	3.6	6
22	Defeating the Matrix. Journal of Magnetic Resonance, 2019, 306, 75-79.	2.1	4
23	Quantum mechanical MRI simulations: Solving the matrix dimension problem. Science Advances, 2019, 5, eaaw8962.	10.3	8
24	Periodic trends and hidden dynamics of magnetic properties in three series of triazacyclononane lanthanide complexes. Dalton Transactions, 2019, 48, 8400-8409.	3.3	13
25	Aromatic 19F-13C TROSY: a background-free approach to probe biomolecular structure, function, and dynamics. Nature Methods, 2019, 16, 333-340.	19.0	82
26	Quantitative analysis of 14N quadrupolar coupling using 1H detected 14N solid-state NMR. Physical Chemistry Chemical Physics, 2019, 21, 5941-5949.	2.8	20
27	Synthesis and Conformational Properties of 3,4-Difluoro- <scp>l</scp> -prolines. Journal of Organic Chemistry, 2019, 84, 3100-3120.	3.2	16
28	Combining Molecular and Spin Dynamics Simulations with Solid-State NMR: A Case Study of Amphiphilic Lysine–Leucine Repeat Peptide Aggregates. Journal of Physical Chemistry B, 2019, 123, 10915-10929.	2.6	3
29	14N overtone NMR under MAS: Signal enhancement using cross-polarization methods. Journal of Magnetic Resonance, 2019, 298, 1-5.	2.1	3
30	Minimising conformational bias in fluoroprolines through vicinal difluorination. Chemical Communications, 2018, 54, 5118-5121.	4.1	28
31	Measuring Spin Relaxation Rates Using Satellite Exchange NMR Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 7498-7502.	13.8	3
32	1H line width dependence on MAS speed in solid state NMR – Comparison of experiment and simulation. Journal of Magnetic Resonance, 2018, 291, 32-39.	2.1	80
33	Measuring Spin Relaxation Rates Using Satellite Exchange NMR Spectroscopy. Angewandte Chemie, 2018, 130, 7620-7624.	2.0	0
34	Indirect detection of 10B (l = 3) overtone NMR at very fast magic angle spinning. Journal of Magnetic Resonance, 2018, 291, 27-31.	2.1	5
35	Separating the coherence transfer from chemical shift evolution in highâ€resolution pure shift <scp>COSY NMR</scp> . Magnetic Resonance in Chemistry, 2018, 56, 969-975.	1.9	8
36	Largeâ€scale <scp>NMR</scp> simulations in liquid state: A tutorial. Magnetic Resonance in Chemistry, 2018, 56, 415-437.	1.9	18

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37	Feedback control optimisation of ESR experiments. Journal of Magnetic Resonance, 2018, 297, 9-16.	2.1	14
38	Transmembrane Exchange of Fluorosugars: Characterization of Red Cell GLUT1 Kinetics UsingÂ19F NMR. Biophysical Journal, 2018, 115, 1906-1919.	0.5	12
39	Optimal control of mirror pulses for cold-atom interferometry. Physical Review A, 2018, 98, .	2.5	32
40	Deep neural network processing of DEER data. Science Advances, 2018, 4, eaat5218.	10.3	134
41	Lanthanide-induced relaxation anisotropy. Physical Chemistry Chemical Physics, 2018, 20, 17676-17686.	2.8	41
42	Model-free extraction of spin label position distributions from pseudocontact shift data. Chemical Science, 2017, 8, 2751-2757.	7.4	26
43	Spatially encoded 2D and 3D diffusion-ordered NMR spectroscopy. Chemical Communications, 2017, 53, 701-704.	4.1	48
44	Efficient simulation of ultrafast magnetic resonance experiments. Physical Chemistry Chemical Physics, 2017, 19, 17577-17586.	2.8	16
45	Quantifying the exchange coupling in linear copper porphyrin oligomers. Physical Chemistry Chemical Physics, 2017, 19, 16057-16061.	2.8	17
46	Constructive quantum interference in a bis-copper six-porphyrin nanoring. Nature Communications, 2017, 8, 14842.	12.8	36
47	PARASHIFT Probes: Solution NMR and X-ray Structural Studies of Macrocyclic Ytterbium and Yttrium Complexes. Inorganic Chemistry, 2017, 56, 4028-4038.	4.0	34
48	Measurement of 14N quadrupole couplings in biomolecular solids using indirect-detection 14N solid-state NMR with DNP. Chemical Communications, 2017, 53, 12116-12119.	4.1	11
49	Rationalization of Anomalous Pseudocontact Shifts and Their Solvent Dependence in a Series of <i>C</i> <sub>3</sub> -Symmetric Lanthanide Complexes. Journal of the American Chemical Society, 2017, 139, 14166-14172.	13.7	55
50	Heterometallic Zn <sub>3</sub> Ln <sub>3</sub> Ensembles Containing (μ <sub>6</sub> â€CO <sub>3</sub> ) Ligand and Triangular Disposition of Ln <sup>3+</sup> ions: Analysis of Singleâ€Molecule Toroic (SMT) and Singleâ€Molecule Magnet (SMM) Behavior. Chemistry - A European Journal, 2017, 23, 16621-16636.	3.3	42
51	Beyond Bleaney's Theory: Experimental and Theoretical Analysis of Periodic Trends in Lanthanideâ€Induced Chemical Shift. Angewandte Chemie - International Edition, 2017, 56, 12215-12218.	13.8	42
52	Time domain simulation of Gd3+–Gd3+ distance measurements by EPR. Journal of Chemical Physics, 2017, 147, 044201.	3.0	23
53	Beyond Bleaney's Theory: Experimental and Theoretical Analysis of Periodic Trends in Lanthanideâ€Induced Chemical Shift. Angewandte Chemie, 2017, 129, 12383-12386.	2.0	17
54	Modified Newton-Raphson GRAPE methods for optimal control of spin systems. Journal of Chemical Physics, 2016, 144, 204107.	3.0	46

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55	Scalar Cross-Relaxation Detected in the NOESY Spectra of Oxazolidines and Thiazolidines. Journal of Organic Chemistry, 2016, 81, 4142-4148.	3.2	4
56	Fokker-Planck formalism in magnetic resonance simulations. Journal of Magnetic Resonance, 2016, 270, 124-135.	2.1	39
57	Toroidal circular dichroism. Physical Review B, 2016, 94, .	3.2	57
58	Pseudocontact shifts from mobile spin labels. Physical Chemistry Chemical Physics, 2016, 18, 26412-26422.	2.8	39
59	Using Paramagnetism to Slow Down Nuclear Relaxation in Protein NMR. Journal of Physical Chemistry Letters, 2016, 7, 4815-4818.	4.6	19
60	Auxiliary matrix formalism for interaction representation transformations, optimal control, and spin relaxation theories. Journal of Chemical Physics, 2015, 143, 084113.	3.0	41
61	Understanding Jâ€Modulation during Spatial Encoding for Sensitivityâ€Optimized Ultrafast NMR Spectroscopy. ChemPhysChem, 2015, 16, 3093-3100.	2.1	18
62	Conformational analysis of small organic molecules using NOE and RDC data: A discussion of strychnine and α -methylene- γ -butyrolactone. Journal of Magnetic Resonance, 2015, 261, 101-109.	2.1	40
63	Training Schrödinger's cat: quantum optimal control. European Physical Journal D, 2015, 69, 1.	1.3	550
64	Anomalous Nuclear Overhauser Effects in Carbonâ€Substituted Aziridines: Scalar Crossâ€Relaxation of the First Kind. Angewandte Chemie - International Edition, 2015, 54, 3697-3701.	13.8	17
65	<sup>14</sup> N overtone NMR under MAS: signal enhancement using symmetry-based sequences and novel simulation strategies. Physical Chemistry Chemical Physics, 2015, 17, 6577-6587.	2.8	32
66	<sup>14</sup> N overtone transition in double rotation solid-state NMR. Physical Chemistry Chemical Physics, 2015, 17, 23748-23753.	2.8	13
67	Exact NMR simulation of protein-size spin systems using tensor train formalism. Physical Review B, 2014, 90, .	3.2	24
68	A partial differential equation for pseudocontact shift. Physical Chemistry Chemical Physics, 2014, 16, 20184-20189.	2.8	35
69	A standard format and a graphical user interface for spin system specification. Journal of Magnetic Resonance, 2014, 240, 124-131.	2.1	11
70	Quantum mechanical NMR simulation algorithm for protein-size spin systems. Journal of Magnetic Resonance, 2014, 243, 107-113.	2.1	28
71	Grid-free powder averages: On the applications of the Fokker–Planck equation to solid state NMR. Journal of Magnetic Resonance, 2013, 235, 121-129.	2.1	19
72	Spin system trajectory analysis under optimal control pulses. Journal of Magnetic Resonance, 2013, 233, 107-112.	2.1	10

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73	Parallel density matrix propagation in spin dynamics simulations. Journal of Chemical Physics, 2012, 136, 044108.	3.0	10
74	Molecular structure refinement by direct fitting of atomic coordinates to experimental ESR spectra. Journal of Magnetic Resonance, 2012, 216, 62-68.	2.1	4
75	Second order gradient ascent pulse engineering. Journal of Magnetic Resonance, 2011, 212, 412-417.	2.1	210
76	On the accuracy of the state space restriction approximation for spin dynamics simulations. Journal of Chemical Physics, 2011, 135, 084106.	3.0	36
77	Diagonalization-free implementation of spin relaxation theory for large spin systems. Journal of Magnetic Resonance, 2011, 209, 31-38.	2.1	41
78	Spinach – A software library for simulation of spin dynamics in large spin systems. Journal of Magnetic Resonance, 2011, 208, 179-194.	2.1	355
79	Destination state screening of active spaces in spin dynamics simulations. Journal of Magnetic Resonance, 2011, 210, 228-232.	2.1	12
80	Design Principles and Theory of Paramagnetic Fluorine‣abelled Lanthanide Complexes as Probes for <sup>19</sup> F Magnetic Resonance: A Proofâ€ofâ€Concept Study. Chemistry - A European Journal, 2010, 16, 134-148.	3.3	98
81	Benchmarking NMR experiments: A relational database of protein pulse sequences. Journal of Magnetic Resonance, 2010, 203, 129-137.	2.1	9
82	Strategies for state space restriction in densely coupled spin systems with applications to spin chemistry. Journal of Chemical Physics, 2010, 132, 174101.	3.0	42
83	Polynomially scaling spin dynamics II: Further state-space compression using Krylov subspace techniques and zero track elimination. Journal of Magnetic Resonance, 2008, 195, 45-51.	2.1	52
84	19F NMR based pH probes: lanthanide(iii) complexes with pH-sensitive chemical shifts. Chemical Communications, 2008, , 2514.	4.1	79
85	Spin Relaxation Effects in Photochemically Induced Dynamic Nuclear Polarization Spectroscopy of Nuclei with Strongly Anisotropic Hyperfine Couplings. Journal of the American Chemical Society, 2007, 129, 9004-9013.	13.7	21
86	Polynomially scaling spin dynamics simulation algorithm based on adaptive state-space restriction. Journal of Magnetic Resonance, 2007, 189, 241-250.	2.1	77
87	Bloch-Redfield-Wangsness theory engine implementation using symbolic processing software. Journal of Magnetic Resonance, 2007, 184, 196-206.	2.1	39
88	Novel pulse sequences for time-resolved photo-CIDNP. Molecular Physics, 2006, 104, 1675-1686.	1.7	13
89	19F NMR Studies of the Native and Denatured States of Green Fluorescent Protein. Journal of the American Chemical Society, 2006, 128, 10729-10737.	13.7	61
90	Photoionization of TMPD in DMSO solution: mechanism and magnetic field effects. Molecular Physics, 2006, 104, 1789-1794.	1.7	10

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91	Design and performance of a microsecond time-resolved photo-chemically induced dynamic nuclear polarization add-on for a high-field nuclear magnetic resonance spectrometer. Review of Scientific Instruments, 2005, 76, 084103.	1.3	19
92	Bidirectional Electron Transfer in Photosystem I:  Determination of Two Distances between P700+ and A1- in Spin-Correlated Radical Pairs. Biochemistry, 2005, 44, 2119-2128.	2.5	90
93	Chemically amplified 19F–1H nuclear Overhauser effects. Journal of Magnetic Resonance, 2004, 168, 1-7.	2.1	32
94	Uniform illumination of optically dense NMR samples. Journal of Magnetic Resonance, 2004, 171, 171-175.	2.1	46
95	Spin Relaxation in Ru-Chromophore-Linked Azine/Diquat Radical Pairs. , 0, , 205-220.		0