Beat H Meier

List of Publications by Year
in descending order

311 papers	23,176 citations	13865 67 h-index	10158 140 g-index
347 all docs	347 docs citations	347 times ranked	13600 citing authors

#	Article	IF	Citations
1	Investigation of exchange processes by twoâ€dimensional NMR spectroscopy. Journal of Chemical Physics, 1979, 71, 4546-4553.	3.0	4,787
2	Amyloid Fibrils of the HET-s(218â€“289) Prion Form a Î² Solenoid with a Triangular Hydrophobic Core. Science, 2008, 319, 1523-1526.	12.6	928
3	Structural and functional characterization of two alpha-synuclein strains. Nature Communications, 2013, 4, 2575.	12.8	721
4	Atomic-resolution structure of a disease-relevant Aβ(1â€“42) amyloid fibril. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4976-84.	7.1	712
5	Computer Simulations in Magnetic Resonance. An Object-Oriented Programming Approach. Journal of Magnetic Resonance Series A, 1994, 106, 75-105.	1.6	628
6	The molecular structure of spider dragline silk: Folding and orientation of the protein backbone. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10266-10271.	7.1	465
7	Correlation of structural elements and infectivity of the HET-s prion. Nature, 2005, 435, 844-848.	27.8	433
8	Deâ€…Novo 3D Structure Determination from Subâ€milligram Protein Samples by Solidâ€State 100â€…kHz MAS NMR Spectroscopy. Angewandte Chemie - International Edition, 2014, 53, 12253-12256.	13.8	294
9	NMR cross polarization by adiabatic passage through the Hartmannâ€”Hahn condition (APHH). Chemical Physics Letters, 1994, 223, 283-288.	2.6	258
10	Atomic-Resolution Three-Dimensional Structure of HET-s(218â€“289) Amyloid Fibrils by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2010, 132, 13765-13775.	13.7	252
11	Simple and efficient decoupling in magic-angle spinning solid-state NMR: the XiX scheme. Chemical Physics Letters, 2002, 356, 298-304.	2.6	248
12	Adiabatic passage Hartmann-Hahn cross polarization in NMR under magic angle sample spinning. Chemical Physics Letters, 1995, 240, 449-456.	2.6	246
13	Atomicâ€Resolution Threeâ€Dimensional Structure of Amyloid Î² Fibrils Bearing the Osaka Mutation. Angewandte Chemie - International Edition, 2015, 54, 331-335.	13.8	245
14	Characterization of different water pools in solid-state NMR protein samples. Journal of Biomolecular NMR, 2009, 45, 319-327.	2.8	239
15	Structure and dynamics of intramolecular hydrogen bonds in carboxylic acid dimers: A solid state NMR study. Journal of Chemical Physics, 1982, 76, 767-774.	3.0	222
16	Two new polymorphic structures of human full-length alpha-synuclein fibrils solved by cryo-electron microscopy. ELife, 2019, 8, .	6.0	220
17	Multistage Zeeman deceleration of hydrogen atoms. Physical Review A, 2007, 75, .	2.5	192
18	Adiabatic Dipolar Recoupling in Solid-State NMR: The DREAM Scheme. Journal of Magnetic Resonance, 2001, 150, 81-99.	2.1	189

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19	Rotor-driven spin diffusion in natural-abundance 13C spin systems. Chemical Physics Letters, 1988, 146, 189-196.	2.6	173
20	Exploring amyloid formation by a de novo design. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4435-4440.	7.1	166
21	Dipolar truncation in magic-angle spinning NMR recoupling experiments. Journal of Chemical Physics, 2009, 130, 114506.	3.0	162
22	A Protonâ€Detected 4D Solidâ€State NMR Experiment for Protein Structure Determination. ChemPhysChem, 2011, 12, 915-918.	2.1	160
23	Quantitative Analysis of Protein Backbone Dynamics in Microcrystalline Ubiquitin by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2010, 132, 15957-15967.	13.7	158
24	Protein Structure Determination from ¹³C Spin-Diffusion Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 3959-3966.	13.7	155
25	Cross polarization under fast magic angle spinning: thermodynamical considerations. Chemical Physics Letters, 1992, 188, 201-207.	2.6	141
26	Polarization echoes in NMR. Physical Review Letters, 1992, 69, 2149-2151.	7.8	140
27	Structure and assembly of the mouse ASC inflammasome by combined NMR spectroscopy and cryo-electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13237-13242.	7.1	133
28	The Amyloidâ€“Congo Red Interface at Atomic Resolution. Angewandte Chemie - International Edition, 2011, 50, 5956-5960.	13.8	132
29	Observation of Highly Flexible Residues in Amyloid Fibrils of the HET-s Prion. Journal of the American Chemical Society, 2006, 128, 13224-13228.	13.7	131
30	Efficient15Nâ€“13C Polarization Transfer by Adiabatic-Passage Hartmannâ€“Hahn Cross Polarization. Journal of Magnetic Resonance Series A, 1996, 118, 140-144.	1.6	130
31	Structure-based drug design identifies polythiophenes as antiprion compounds. Science Translational Medicine, 2015, 7, 299ra123.	12.4	130
32	A homonuclear spin-pair filter for solid-state NMR based on adiabatic-passage techniques. Chemical Physics Letters, 1998, 287, 421-428.	2.6	128
33	Spinning proteins, the faster, the better?. Journal of Magnetic Resonance, 2015, 253, 71-79.	2.1	127
34	Distance information from proton-driven spin diffusion under MAS. Chemical Physics Letters, 2006, 427, 404-409.	2.6	126
35	Protocols for the Sequential Solidâ€State NMR Spectroscopic Assignment of a Uniformly Labeled 25 kDa Protein: HETâ€s(1â€227). ChemBioChem, 2010, 11, 1543-1551.	2.6	126
36	The Mechanism of Toxicity in HET-S/HET-s Prion Incompatibility. PLoS Biology, 2012, 10, e1001451.	5.6	123

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37	Low-power decoupling in fast magic-angle spinning NMR. Chemical Physics Letters, 2001, 348, 293-302.	2.6	113
38	A Sedimented Sample of a 59â€…kDa Dodecameric Helicase Yields Highâ€Resolution Solidâ€State NMR Spectra. Angewandte Chemie - International Edition, 2012, 51, 7855-7858.	13.8	112
39	Low-power XiX decoupling in MAS NMR experiments. Journal of Magnetic Resonance, 2003, 163, 332-339.	2.1	111
40	Swiss ethnoveterinary knowledge on medicinal plants â€“ a within-country comparison of Italian speaking regions with north-western German speaking regions. Journal of Ethnobiology and Ethnomedicine, 2017, 13, 1.	2.6	111
41	Unlike Twins: An NMR Comparison of Two Î±-Synuclein Polymorphs Featuring Different Toxicity. PLoS ONE, 2014, 9, e90659.	2.5	110
42	High-Resolution Solid-State NMR Spectroscopy of the Prion Protein HET-s in Its Amyloid Conformation. Angewandte Chemie - International Edition, 2005, 44, 2441-2444.	13.8	109
43	Mechanism of Inhibition of Enveloped Virus Membrane Fusion by the Antiviral Drug Arbidol. PLoS ONE, 2011, 6, e15874.	2.5	106
44	Formalized quantum mechanical Floquet theory and its application to sample spinning in nuclear magnetic resonance. Molecular Physics, 1995, 86, 1195-1212.	1.7	102
45	Spinning faster: protein NMR at MAS frequencies up to 126ÂkHz. Journal of Biomolecular NMR, 2019, 73, 19-29.	2.8	101
46	Fast MAS Total Through-Bond Correlation Spectroscopy. Journal of Magnetic Resonance, 2001, 148, 459-464.	2.1	98
47	MIRROR recoupling and its application to spin diffusion under fast magic-angle spinning. Chemical Physics Letters, 2008, 460, 278-283.	2.6	98
48	Broadband polarization-transfer experiments for rotating solids. Chemical Physics Letters, 1994, 230, 329-336.	2.6	96
49	Double-quantum filter for rotating solids. Journal of the American Chemical Society, 1987, 109, 7937-7942.	13.7	94
50	Methods for sequential resonance assignment in solid, uniformly 13C, 15N labelled peptides: quantification and application to antamanide. Journal of Biomolecular NMR, 2001, 20, 203-221.	2.8	94
51	Structure and Molecular Dynamics of Alkane Monolayers Self-Assembled on Mica Platelets. Journal of Physical Chemistry B, 2002, 106, 653-662.	2.6	94
52	13C, 15N Resonance Assignment of Parts of the HET-s Prion Protein in its Amyloid Form. Journal of Biomolecular NMR, 2006, 34, 75-87.	2.8	91
53	Protein resonance assignment at MAS frequencies approaching 100ÂkHz: a quantitative comparison of J-coupling and dipolar-coupling-based transfer methods. Journal of Biomolecular NMR, 2015, 63, 165-186.	2.8	91
54	Low-Power High-Resolution Solid-State NMR of Peptides and Proteins. Journal of the American Chemical Society, 2004, 126, 4764-4765.	13.7	90

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55	Cross polarization under fast magic angle sample spinning using amplitude-modulated spin-lock sequences. Chemical Physics Letters, 1993, 213, 627-635.	2.6	89
56	Structural control on bulk melt properties: Single and double quantum 29Si NMR spectroscopy on alkali-silicate glasses. Geochimica Et Cosmochimica Acta, 2007, 71, 6002-6018.	3.9	89
57	Supercontracted spider dragline silk: a solid-state NMR study of the local structure. International Journal of Biological Macromolecules, 1999, 24, 173-178.	7.5	82
58	Broadband Polarization Transfer under Magic-Angle Spinning: Application to Total Through-Space-Correlation NMR Spectroscopy. Journal of Magnetic Resonance, 1997, 128, 172-193.	2.1	79
59	NMR Characterization of Native Liquid Spider Dragline Silk fromNephila edulis. Biomacromolecules, 2004, 5, 834-839.	5.4	74
60	The Molecular Organization of the Fungal Prion HET-s in Its Amyloid Form. Journal of Molecular Biology, 2009, 394, 119-127.	4.2	74
61	Solidâ€state NMR Spectroscopy Reveals that E.â€...coli Inclusion Bodies of HETâ€s(218â€“289) are Amyloids. Angewandte Chemie - International Edition, 2009, 48, 4858-4860.	13.8	73
62	Emerging Structural Understanding of Amyloid Fibrils by Solid-State NMR. Trends in Biochemical Sciences, 2017, 42, 777-787.	7.5	73
63	Protein NMR Spectroscopy at 150â€...kHz Magicâ€Angle Spinning Continues To Improve Resolution and Mass Sensitivity. ChemBioChem, 2020, 21, 2540-2548.	2.6	72
64	Low-power cross polarization in fast magic-angle spinning NMR experiments. Chemical Physics Letters, 2009, 468, 100-105.	2.6	71
65	Dynamic Assembly and Disassembly of Functional Î²-Endorphin Amyloid Fibrils. Journal of the American Chemical Society, 2016, 138, 846-856.	13.7	71
66	Excitation of multiple quantum transitions under magic angle spinning conditions: Adamantane. Journal of Chemical Physics, 1986, 85, 4905-4911.	3.0	69
67	Decoupling and recoupling using continuous-wave irradiation in magic-angle-spinning solid-state NMR: A unified description using bimodal Floquet theory. Journal of Chemical Physics, 2005, 123, 064102.	3.0	69
68	Operator-based triple-mode Floquet theory in solid-state NMR. Journal of Chemical Physics, 2007, 127, 204504.	3.0	68
69	Prion Fibrils of Ure2p Assembled under Physiological Conditions Contain Highly Ordered, Natively Folded Modules. Journal of Molecular Biology, 2009, 394, 108-118.	4.2	68
70	Accurate measurement of one-bond Hâ€“X heteronuclear dipolar couplings in MAS solid-state NMR. Journal of Magnetic Resonance, 2011, 210, 246-259.	2.1	65
71	Radio-frequency-driven nuclear spin diffusion in solids. Chemical Physics Letters, 1989, 162, 417-423.	2.6	64
72	NMR Spectra of a Microcrystalline Protein at 30 kHz MAS. Journal of the American Chemical Society, 2003, 125, 15807-15810.	13.7	63

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73	The Crystal Structure of <scp>D</scp>â€Riboseâ€"At Last!. Angewandte Chemie - International Edition, 2010, 49, 4503-4505.	13.8	63
74	A multi-sample 94GHz dissolution dynamic-nuclear-polarization system. Journal of Magnetic Resonance, 2012, 214, 166-174.	2.1	63
75	Characterization of fibril dynamics on three timescales by solid-state NMR. Journal of Biomolecular NMR, 2016, 65, 171-191.	2.8	63
76	Two-dimensional chemical exchange NMR in the solid: proton dynamics in phthalocyanine. Journal of the American Chemical Society, 1986, 108, 6072-6074.	13.7	62
77	Site-Resolved Measurement of Microsecond-to-Millisecond Conformational-Exchange Processes in Proteins by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2012, 134, 14800-14807.	13.7	61
78	Solid-state NMR sequential assignments of Î±-synuclein. Biomolecular NMR Assignments, 2012, 6, 51-55.	0.8	61
79	The structure of fibrils from â€˜misfoldedâ€™ proteins. Current Opinion in Structural Biology, 2015, 30, 43-49.	5.7	61
80	Understanding two-pulse phase-modulated decoupling in solid-state NMR. Journal of Chemical Physics, 2009, 130, 114510.	3.0	60
81	Adiabatic homonuclear polarization transfer in magic-angle-spinning solid-state NMR1Presented in part at the 38th ENC conference, March 23â€"27, 1997, Orlando, Florida, USA.1. Chemical Physics Letters, 1997, 280, 31-39.	2.6	58
82	Optimal degree of protonation for 1H detection of aliphatic sites in randomly deuterated proteins as a function of the MAS frequency. Journal of Biomolecular NMR, 2012, 54, 155-168.	2.8	58
83	Rotorâ€synchronized amplitudeâ€modulated nuclear magnetic resonance spinâ€lock sequences for improved cross polarization under fast magic angle sample spinning. Journal of Chemical Physics, 1995, 102, 4000-4011.	3.0	57
84	Extensive de novo solid-state NMR assignments of the 33ÂkDa C-terminal domain of the Ure2 prion. Journal of Biomolecular NMR, 2011, 51, 235-243.	2.8	57
85	RF-driven and proton-driven NMR polarization transfer for investigating local order. Molecular Physics, 1995, 84, 995-1020.	1.7	55
86	Fast-MAS total through-bond correlation spectroscopy using adiabatic pulses. Journal of Magnetic Resonance, 2003, 165, 208-218.	2.1	55
87	Polymorphism in an Amyloidâ€Like Fibrilâ€Forming Model Peptide. Angewandte Chemie - International Edition, 2008, 47, 5842-5845.	13.8	53
88	Solidâ€State NMR Measurements of Asymmetric Dipolar Couplings Provide Insight into Protein Sideâ€Chain Motion. Angewandte Chemie - International Edition, 2011, 50, 11005-11009.	13.8	53
89	Tensor correlation by 2D spin-diffusion powder NMR spectroscopy: determination of the asymmetry of the hydrogenî—¸bond potential in benzoic acid. Chemical Physics Letters, 1991, 187, 471-478.	2.6	51
90	Probing microheterogeneity in polymer systems via two-dimensional 129xenon NMR spy detection. A heterogeneous model blend system. Chemical Physics Letters, 1993, 205, 145-152.	2.6	51

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91	Rovibrational Motion of CO in SolidC60. Physical Review Letters, 1997, 79, 1138-1141.	7.8	51
92	Infectious and Noninfectious Amyloids of the HETâ€s(218â€“289) Prion Have Different NMR Spectra. Angewandte Chemie - International Edition, 2008, 47, 5839-5841.	13.8	51
93	Direct Detection of ^{3h}J_{NCâ€²} Hydrogenâ€Bond Scalar Couplings in Proteins by Solidâ€State NMR Spectroscopy. Angewandte Chemie - International Edition, 2009, 48, 9322-9325.	13.8	51
94	Amplitude-modulated decoupling in rotating solids: A bimodal Floquet approach. Solid State Nuclear Magnetic Resonance, 2006, 29, 2-21.	2.3	50
95	Determination of Internuclear Distances in Uniformly Labeled Molecules by Rotational-Resonance Solid-State NMR. Journal of the American Chemical Society, 2003, 125, 2718-2722.	13.7	49
96	Structural Similarity between the Prion Domain of HET-s and a Homologue Can Explain Amyloid Cross-Seeding in Spite of Limited Sequence Identity. Journal of Molecular Biology, 2010, 402, 311-325.	4.2	49
97	Preparation and Characterization of Stable Î±-Synuclein Lipoprotein Particles. Journal of Biological Chemistry, 2016, 291, 8516-8527.	3.4	49
98	Solidâ€state NMR and EPR Spectroscopy of Mn²⁺â€Substituted ATPâ€Fueled Protein Engines. Angewandte Chemie - International Edition, 2017, 56, 3369-3373.	13.8	49
99	Selective labeling and unlabeling strategies in protein solid-state NMR spectroscopy. Journal of Biomolecular NMR, 2018, 71, 141-150.	2.8	49
100	A Combined Structural Study Using NMR Chemical-Shielding-Tensor Correlation and Neutron Diffraction in Polycrystalline Methanol. Journal of the American Chemical Society, 1994, 116, 5315-5323.	13.7	48
101	High-Speed Magic-Angle Spinning13C MAS NMR Spectra of Adamantane: Self-Decoupling of the Heteronuclear Scalar Interaction and Proton Spin Diffusion. Journal of Magnetic Resonance, 1998, 130, 176-185.	2.1	48
102	Rotational-resonance NMR experiments in half-integer quadrupolar spin systems. Molecular Physics, 2000, 98, 161-178.	1.7	48
103	The conformation of acetylcholine at its target site in the membrane-embedded nicotinic acetylcholine receptor. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18031-18036.	7.1	48
104	The three-dimensional structure of human Î²-endorphin amyloid fibrils. Nature Structural and Molecular Biology, 2020, 27, 1178-1184.	8.2	46
105	Manipulation of the Director in Bicellar Mesophases by Sample Spinning:Â A New Tool for NMR Spectroscopy. Journal of the American Chemical Society, 2001, 123, 910-913.	13.7	45
106	Contribution of Specific Residues of the Î²-Solenoid Fold to HET-s Prion Function, Amyloid Structure and Stability. PLoS Pathogens, 2014, 10, e1004158.	4.7	45
107	The conformational changes coupling ATP hydrolysis and translocation in a bacterial DnaB helicase. Nature Communications, 2019, 10, 31.	12.8	45
108	Broadband dipolar recoupling in rotating solids: a numerical comparison of some pulse schemes. Solid State Nuclear Magnetic Resonance, 1998, 11, 157-168.	2.3	44

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109	INADEQUATE-CR Experiments in the Solid State. Journal of Magnetic Resonance, 1999, 140, 300-303.	2.1	44
110	A simple model for heteronuclear spin decoupling in solid-state NMR. Chemical Physics Letters, 2000, 317, 581-588.	2.6	44
111	Solid-state NMR spectroscopy of 10% 13C labeled ubiquitin: spectral simplification and stereospecific assignment of isopropyl groups. Journal of Biomolecular NMR, 2006, 35, 167-173.	2.8	44
112	Polarization Transfer over the Waterâ€“Protein Interface in Solids. Angewandte Chemie - International Edition, 2008, 47, 5851-5854.	13.8	44
113	Molecular Disorder and Structure of Spider Dragline Silk Investigated by Two-Dimensional Solid-State NMR Spectroscopy. Macromolecules, 2007, 40, 1995-2001.	4.8	43
114	A Combined Solidâ€State NMR and MD Characterization of the Stability and Dynamics of the HETâ€s(218â€289) Prion in its Amyloid Conformation. ChemBioChem, 2009, 10, 1657-1665.	2.6	43
115	Microsecond Dynamics in Ubiquitin Probed by Solidâ€State ¹⁵Nâ€…NMR Spectroscopy R₁ Relaxation Experiments under Fast MAS (60â€“110â€…kHz). Chemistry - A European Journal, 2017, 23, 9425-9433.	3.3	43
116	Structure Investigation on Anhydrous Disodium Hydrogen Phosphate Using Solid-State NMR and X-ray Techniques. Journal of the American Chemical Society, 1995, 117, 5141-5147.	13.7	42
117	A Combination of Slow and Fast RF Field Modulation for Improved Cross Polarization in Solid-State MAS NMR. Journal of Magnetic Resonance, 1997, 125, 291-301.	2.1	42
118	4D solid-state NMR for protein structure determination. Physical Chemistry Chemical Physics, 2012, 14, 5239.	2.8	42
119	Yet another polymorph of Î±-synuclein: solid-state sequential assignments. Biomolecular NMR Assignments, 2014, 8, 395-404.	0.8	42
120	Amyloid Fibril Polymorphism: Almost Identical on the Atomic Level, Mesoscopically Very Different. Journal of Physical Chemistry B, 2017, 121, 1783-1792.	2.6	41
121	Biomolecular solid-state NMR spectroscopy at 1200ÂMHz: the gain in resolution. Journal of Biomolecular NMR, 2021, 75, 255-272.	2.8	41
122	The mechanism of proton dynamics in solid carboxylic acids. Reply to the comment by K. FuriÄ‡. Chemical Physics Letters, 1984, 108, 522-523.	2.6	40
123	Structure and dynamics of terephthalic acid from 2 to 300 K. Journal of Solid State Chemistry, 1986, 61, 109-125.	2.9	40
124	The Conformation of the Prion Domain of Sup35â€‰p in Isolation and in the Fullâ€Length Protein. Angewandte Chemie - International Edition, 2013, 52, 12741-12744.	13.8	40
125	Amplitude-modulated low-power decoupling sequences for fast magic-angle spinning NMR. Chemical Physics Letters, 2013, 583, 1-7.	2.6	39
126	Automated solid-state NMR resonance assignment of protein microcrystals and amyloids. Journal of Biomolecular NMR, 2013, 56, 243-254.	2.8	39

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127	Microscale Localized Spectroscopy with a Magnetic Resonance Force Microscope. Physical Review Letters, 2005, 94, 207601.	7.8	38
128	100 kHz MAS Proton-Detected NMR Spectroscopy of Hepatitis B Virus Capsids. Frontiers in Molecular Biosciences, 2019, 6, 58.	3.5	38
129	Traditional Use of Herbal Remedies in Livestock by Farmers in 3 Swiss Cantons (Aargau, Zurich,) Tj ETQq1 1 0.784314 rgBT /Overlock	2.2	37
130	Structural Studies of Self-Assembled Subviral Particles: Combining Cell-Free Expression with 110â€…kHz MAS NMR Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 4787-4791.	13.8	37
131	Local monitoring of proton spin diffusion in static and rotating samples via spy detection. Solid State Nuclear Magnetic Resonance, 1993, 1, 313-320.	2.3	36
132	Frequency stepped adiabatic passage excitation of half-integer quadrupolar spin systems. Molecular Physics, 1998, 93, 195-213.	1.7	36
133	NMR of bicelles: orientation and mosaic spread of the liquid-crystal director under sample rotation. Journal of Biomolecular NMR, 2003, 25, 113-123.	2.8	36
134	Further exploration of the conformational space of Î±-synuclein fibrils: solid-state NMR assignment of a high-pH polymorph. Biomolecular NMR Assignments, 2016, 10, 5-12.	0.8	36
135	Ethnoveterinary herbal remedies used by farmers in four north-eastern Swiss cantons (St. Gallen,) Tj ETQq1 1 0.784314 rgBT /Overloc Ethnomedicine, 2014, 10, 32.	2.6	35
136	Characterization of Local Order in Atactic Polystyrene Using Two-Dimensional Nuclear Magnetic Resonance and Atomistic Simulations. Macromolecules, 1995, 28, 5320-5324.	4.8	34
137	Atomic Models of De Novo Designed ccÎ²-Met Amyloid-Like Fibrils. Journal of Molecular Biology, 2008, 376, 898-912.	4.2	34
138	Dissolution dynamic nuclear polarization efficiency enhanced by Hartmannâ€“Hahn cross polarization. Chemical Physics Letters, 2012, 554, 72-76.	2.6	34
139	Because the Light is Better Here: Correlationâ€Time Analysis by NMR Spectroscopy. Angewandte Chemie - International Edition, 2017, 56, 13590-13595.	13.8	34
140	Probing Water Accessibility in HET-s(218â€“289) Amyloid Fibrils by Solid-State NMR. Journal of Molecular Biology, 2011, 405, 765-772.	4.2	33
141	Quantifying proton NMR coherent linewidth in proteins under fast MAS conditions: a second moment approach. Physical Chemistry Chemical Physics, 2019, 21, 18850-18865.	2.8	33
142	Prions. Prion, 2010, 4, 72-79.	1.8	32
143	Flexible-to-rigid transition is central for substrate transport in the ABC transporter BmrA from Bacillus subtilis. Communications Biology, 2019, 2, 149.	4.4	32
144	Sedimentation Yields Long-Term Stable Protein Samples as Shown by Solid-State NMR. Frontiers in Molecular Biosciences, 2020, 7, 17.	3.5	32

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145	An Efficient Procedure for Removal and Inactivation of Alpha-Synuclein Assemblies from Laboratory Materials. Journal of Parkinson's Disease, 2016, 6, 143-151.	2.8	31
146	Binding of Polythiophenes to Amyloids: Structural Mapping of the Pharmacophore. ACS Chemical Neuroscience, 2018, 9, 475-481.	3.5	31
147	Insight into small molecule binding to the neonatal Fc receptor by X-ray crystallography and 100 kHz magic-angle-spinning NMR. PLoS Biology, 2018, 16, e2006192.	5.6	31
148	Switched-angle spinning applied to bicelles containing phospholipid-associated peptides. Journal of Biomolecular NMR, 2003, 25, 125-132.	2.8	30
149	Haupt magnetic double resonance. Journal of Chemical Physics, 2003, 118, 8559-8562.	3.0	30
150	Partially-deuterated samples of HET-s(218â€“289) fibrils: assignment and deuterium isotope effect. Journal of Biomolecular NMR, 2017, 67, 109-119.	2.8	30
151	Fluxional behavior in the solid state: bullvalene. Journal of the American Chemical Society, 1985, 107, 5553-5555.	13.7	29
152	Dynamics of hydrogen bonds in carboxylic acids. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1986, 136, 161-164.	0.9	29
153	Anisotropic Optical Properties and Structures of Block Copolymer/Silica Thin Films Containing Aligned Porphyrin J-Aggregates. Journal of Physical Chemistry C, 2008, 112, 2565-2573.	3.1	29
154	On-Cell MAS NMR: Physiological Clues from Living Cells. Journal of the American Chemical Society, 2012, 134, 17513-17519.	13.7	29
155	Optimized â€œdetectorsâ€•for dynamics analysis in solid-state NMR. Journal of Chemical Physics, 2018, 148, 045104.	3.0	29
156	Solid-State NMR for Studying the Structure and Dynamics of Viral Assemblies. Viruses, 2020, 12, 1069.	3.3	29
157	Large-Scale Recombinant Production of the SARS-CoV-2 Proteome for High-Throughput and Structural Biology Applications. Frontiers in Molecular Biosciences, 2021, 8, 653148.	3.5	29
158	Neutron scattering study of dynamically disordered hydrogen bonds: Terephthalic acid. Chemical Physics Letters, 1983, 103, 169-174.	2.6	28
159	Direct Observation of Nuclear Spin Diffusion in Real Space. Physical Review Letters, 2007, 99, 227603.	7.8	28
160	Ethnoveterinary knowledge of farmers in bilingual regions of Switzerland â€“ is there potential to extend veterinary options to reduce antimicrobial use?. Journal of Ethnopharmacology, 2020, 246, 112184.	4.1	28
161	Spin Diffusion in Solids. Studies in Physical and Theoretical Chemistry, 1998, 84, 83-121.	0.0	27
162	Improved resolution in 13C solid-state spectra through spin-state-selection. Journal of Magnetic Resonance, 2007, 184, 322-329.	2.1	27

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163	Plant and natural product based homemade remedies manufactured and used by farmers of six central Swiss cantons to treat livestock. Livestock Science, 2016, 189, 110-125.	1.6	27
164	ATP Analogues for Structural Investigations: Case Studies of a DnaB Helicase and an ABC Transporter. Molecules, 2020, 25, 5268.	3.8	27
165	Simultaneous acquisition of PAR and PAIN spectra. Journal of Biomolecular NMR, 2012, 52, 283-288.	2.8	26
166	Accelerating proton spin diffusion in perdeuterated proteins at 100ÂkHz MAS. Journal of Biomolecular NMR, 2016, 66, 233-242.	2.8	26
167	Line-Broadening in Low-Temperature Solid-State NMR Spectra of Fibrils. Journal of Biomolecular NMR, 2017, 67, 51-61.	2.8	26
168	Cross-polarization for dissolution dynamic nuclear polarization. Physical Chemistry Chemical Physics, 2014, 16, 21407-21416.	2.8	25
169	Efficient and stable reconstitution of the ABC transporter BmrA for solid-state NMR studies. Frontiers in Molecular Biosciences, 2014, 1, 5.	3.5	25
170	Cell-free expression, purification, and membrane reconstitution for NMR studies of the nonstructural protein 4B from hepatitis C virus. Journal of Biomolecular NMR, 2016, 65, 87-98.	2.8	25
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