

Burkhard Luy

List of Publications by Year in descending order

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196
papers

7,824
citations

44069

48
h-index

66911

78
g-index

216
all docs

216
docs citations

216
times ranked

6031
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective ¹ H- ¹⁵ N NMR Methods Reveal Functionally Relevant Proline <i>cis/trans</i> Isomers in Intrinsically Disordered Proteins: Characterization of Minor Forms, Effects of Phosphorylation, and Occurrence in Proteome. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	13
2	Concurrent J-Evolving Refocusing Pulses. <i>Journal of Magnetic Resonance</i> , 2022, 336, 107152.	2.1	5
3	SORDOR pulses: expansion of the BÄ¶hlenâ€ˆBodenhausen scheme for low-power broadband magnetic resonance. <i>Magnetic Resonance</i> , 2022, 3, 53-63.	1.9	5
4	Stereoelectronic effects: Perlin effects in cyclohexaneâ€ˆderived compounds. <i>Journal of Physical Organic Chemistry</i> , 2021, 34, e4165.	1.9	3
5	Expedited Nuclear Magnetic Resonance Assignment of Small- to Medium-Sized Molecules with Improved HSQCâˆ“CLIPâˆ“COSY Experiments. <i>Analytical Chemistry</i> , 2021, 93, 3096-3102.	6.5	9
6	Trendbericht: Kernmagnetische Resonanz. <i>Nachrichten Aus Der Chemie</i> , 2021, 69, 63-72.	0.0	0
7	Virtual decoupling to break the simplification versus resolution trade-off in nuclear magnetic resonance of complex metabolic mixtures. <i>Magnetic Resonance</i> , 2021, 2, 619-627.	1.9	1
8	Selective excitation enables encoding and measurement of multiple diffusion parameters in a single experiment. <i>Magnetic Resonance</i> , 2021, 2, 835-842.	1.9	2
9	Determination of Configuration and Conformation of a Reserpine Derivative with Seven Stereogenic Centers Using Molecular Dynamics with RDCâ€ˆDerived Tensorial Constraints**. <i>Chemistry - A European Journal</i> , 2020, 26, 14435-14444.	3.3	21
10	Power of Pure Shift Hâˆ“Câˆ“ Correlations: A Way to Characterize Biomolecules under Physiological Conditions. <i>Analytical Chemistry</i> , 2020, 92, 12423-12428.	6.5	11
11	Innentitelbild: Comprehensive and Highâ€ˆThroughput Exploration of Chemical Space Using Broadband ¹⁹ Fâ€ˆ...NMRâ€ˆBased Screening (<i>Angew. Chem.</i> 35/2020). <i>Angewandte Chemie</i> , 2020, 132, 14806-14806.	2.0	0
12	Comprehensive and Highâ€ˆThroughput Exploration of Chemical Space Using Broadband ¹⁹ Fâ€ˆ...NMRâ€ˆBased Screening. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14809-14817.	13.8	24
13	Comprehensive and Highâ€ˆThroughput Exploration of Chemical Space Using Broadband ¹⁹ Fâ€ˆ...NMRâ€ˆBased Screening. <i>Angewandte Chemie</i> , 2020, 132, 14919-14927.	2.0	3
14	Fundamental and practical aspects of molecular dynamics using tensorial orientational constraints. <i>Liquid Crystals</i> , 2020, 47, 2043-2057.	2.2	7
15	Urinary NMR Profiling in Pediatric Acute Kidney Injuryâ€ˆA Pilot Study. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1187.	4.1	12
16	Probing Longâ€ˆRange Anisotropic Interactions: a General and Signâ€ˆSensitive Strategy to Measure ¹ Hâ€ˆ ¹ H Residual Dipolar Couplings as a Key Advance for Organic Structure Determination. <i>Angewandte Chemie</i> , 2020, 132, 5354-5358.	2.0	1
17	Probing Longâ€ˆRange Anisotropic Interactions: a General and Signâ€ˆSensitive Strategy to Measure ¹ Hâ€ˆ ¹ H Residual Dipolar Couplings as a Key Advance for Organic Structure Determination. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5316-5320.	13.8	12
18	Stereoelectronic Effects: Perlin Effects in Thianeâ€ˆDerived Compounds. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 2878-2887.	2.4	3

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19	Second order phase dispersion by optimized rotation pulses. <i>Physical Review Research</i> , 2020, 2, .	3.6	6
20	Trendbericht Organische Chemie. <i>Nachrichten Aus Der Chemie</i> , 2019, 67, 46-78.	0.0	1
21	Configuration determination by residual dipolar couplings: accessing the full conformational space by molecular dynamics with tensorial constraints. <i>Chemical Science</i> , 2019, 10, 8774-8791.	7.4	40
22	¹ H PFG-NMR Diffusion Study on a Sequence-Defined Macromolecule: Confirming Monodispersity. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900155.	2.2	4
23	Molecular Dynamics with Orientational Tensorial Constraints: A New Approach to Probe the Torsional Angle Distributions of Small Rotationally Flexible Molecules. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8480-8491.	2.6	25
24	Modulating Hinge Flexibility in the APP Transmembrane Domain Alters β -Secretase Cleavage. <i>Biophysical Journal</i> , 2019, 116, 2103-2120.	0.5	34
25	Structure of Superabsorbent Polyacrylate Hydrogels and Dynamics of Counterions by Nuclear Magnetic Resonance. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800525.	2.2	12
26	Efficient Extraction from Mice Feces for NMR Metabolomics Measurements with Special Emphasis on SCFAs. <i>Metabolites</i> , 2019, 9, 55.	2.9	8
27	Real-time pure shift measurements for uniformly isotope-labeled molecules using X-selective BIRD homonuclear decoupling. <i>Journal of Magnetic Resonance</i> , 2019, 302, 64-71.	2.1	17
28	Increased H-Bond Stability Relates to Altered β -Cleavage Efficiency and $A\beta$ Levels in the I45T Familial Alzheimer's Disease Mutant of APP. <i>Scientific Reports</i> , 2019, 9, 5321.	3.3	20
29	Dynamics of Sodium Ions and Water in Swollen Superabsorbent Hydrogels as Studied by ²³ Na- and ¹ H-NMR. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800350.	2.2	13
30	Polarization recovery during ASAP and SOFAST/ALSOFAST-type experiments. <i>Journal of Magnetic Resonance</i> , 2019, 300, 61-75.	2.1	10
31	ASAP-HSQC-TOCSY for fast spin system identification and extraction of long-range couplings. <i>Journal of Magnetic Resonance</i> , 2019, 300, 76-83.	2.1	8
32	Rapid two-dimensional ALSOFAST-HSQC experiment for metabolomics and fluxomics studies: application to a ¹³ C-enriched cancer cell model treated with gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2793-2804.	3.7	31
33	1,5-Cyclooctadienyl alcohols and ketones generate a new class of COD Pt complexes. <i>Dalton Transactions</i> , 2018, 47, 3689-3692.	3.3	6
34	Boosting the NMR Assignment of Carbohydrates with Clean In-Phase Correlation Experiments. <i>ChemPlusChem</i> , 2018, 83, 53-60.	2.8	12
35	Self-reporting and refoldable profluorescent single-chain nanoparticles. <i>Chemical Science</i> , 2018, 9, 4696-4702.	7.4	27
36	Detection of counterfeit brand spirits using ¹ H NMR fingerprints in comparison to sensory analysis. <i>Food Chemistry</i> , 2018, 245, 112-118.	8.2	32

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37	Glucocorticoid deficiency causes transcriptional and post-transcriptional reprogramming of glutamine metabolism. <i>EBioMedicine</i> , 2018, 36, 376-389.	6.1	12
38	Integrated Process for the Enzymatic Production of Fatty Acid Sugar Esters Completely Based on Lignocellulosic Substrates. <i>Frontiers in Chemistry</i> , 2018, 6, 421.	3.6	31
39	Topological Insight into Superabsorbent Hydrogel Network Structures: a ¹ H Double-Quantum NMR Study. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800100.	2.2	10
40	Homonuclear decoupling by projection reconstruction. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 1006-1020.	1.9	4
41	Synthesis of Azido-Glycans for Chemical Glycomodification of Proteins. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4296-4305.	2.4	7
42	Organische Chemie 2016. <i>Nachrichten Aus Der Chemie</i> , 2017, 65, 266-304.	0.0	0
43	Biphasic Liquid Crystal and the Simultaneous Measurement of Isotropic and Anisotropic Parameters by Spatially Resolved NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2017, 23, 13351-13359.	3.3	31
44	Improvements, extensions, and practical aspects of rapid ASAP-HSQC and ALSOFAST-HSQC pulse sequences for studying small molecules at natural abundance. <i>Journal of Magnetic Resonance</i> , 2017, 281, 151-161.	2.1	48
45	Broadband RF-amplitude-dependent flip angle pulses with linear phase slope. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 797-803.	1.9	5
46	Aflatoxin contamination in unrecorded beers from Kenya – A health risk beyond ethanol. <i>Food Control</i> , 2017, 79, 344-348.	5.5	16
47	Beechwood carbohydrates for enzymatic synthesis of sustainable glycolipids. <i>Bioresources and Bioprocessing</i> , 2017, 4, 25.	4.2	34
48	Untargeted multi-platform analysis of the metabolome and the non-starch polysaccharides of kiwifruit during postharvest ripening. <i>Postharvest Biology and Technology</i> , 2017, 125, 65-76.	6.0	26
49	Diffusion in Polymer Solutions: Molecular Weight Distribution by PFG-NMR and Relation to SEC. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600440.	2.2	46
50	Metabolite patterns predicting sex and age in participants of the Karlsruhe Metabolomics and Nutrition (KarMeN) study. <i>PLoS ONE</i> , 2017, 12, e0183228.	2.5	150
51	Development of Bag-1L as a therapeutic target in androgen receptor-dependent prostate cancer. <i>ELife</i> , 2017, 6, .	6.0	32
52	NMR Chemical Shift Ranges of Urine Metabolites in Various Organic Solvents. <i>Metabolites</i> , 2016, 6, 27.	2.9	5
53	Extensive Regulation of Diurnal Transcription and Metabolism by Glucocorticoids. <i>PLoS Genetics</i> , 2016, 12, e1006512.	3.5	44
54	Untargeted NMR Spectroscopic Analysis of the Metabolic Variety of New Apple Cultivars. <i>Metabolites</i> , 2016, 6, 29.	2.9	21

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55	Q.E.COSY: determining sign and size of small deuterium residual quadrupolar couplings using an extended E.COSY principle. <i>Magnetic Resonance in Chemistry</i> , 2016, 54, 351-357.	1.9	14
56	CLIP-COSY: A Clean In-Phase Experiment for the Rapid Acquisition of COSY-type Correlations. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7655-7659.	13.8	47
57	Chemisch gesteuerte schrittweise Entfaltung von Einzelketten-Nanopartikeln. <i>Angewandte Chemie</i> , 2016, 128, 11446-11450.	2.0	19
58	Sustainable enzymatic synthesis of glycolipids in a deep eutectic solvent system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, S281-S287.	1.8	44
59	Optically induced dynamic nuclear spin polarisation in diamond. <i>New Journal of Physics</i> , 2016, 18, 013040.	2.9	65
60	Influence of heating temperature, pressure and pH on recrystallization inhibition activity of antifreeze protein type III. <i>Journal of Food Engineering</i> , 2016, 187, 53-61.	5.2	16
61	Stepwise Unfolding of Single-Chain Nanoparticles by Chemically Triggered Gates. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11276-11280.	13.8	72
62	CLIP-COSY: Reine Inphase-Signale und schnelle Akquisition COSY-artiger Korrelationen. <i>Angewandte Chemie</i> , 2016, 128, 7785-7789.	2.0	2
63	Time-resolved NMR metabolomics of plant cells based on a microfluidic chip. <i>Journal of Plant Physiology</i> , 2016, 200, 28-34.	3.5	12
64	Profiling human blood serum metabolites by nuclear magnetic resonance spectroscopy: a comprehensive tool for the evaluation of hemodialysis efficiency. <i>Translational Research</i> , 2016, 171, 71-82.e9.	5.0	8
65	Differentiation of enantiomers by 2D NMR spectroscopy at 1%T using residual dipolar couplings. <i>Magnetic Resonance in Chemistry</i> , 2016, 54, 527-530.	1.9	8
66	Glycolipids produced by <i>Rouxiella</i> sp. DSM 100043 and isolation of the biosurfactants via foam-fractionation. <i>AMB Express</i> , 2015, 5, 82.	3.0	9
67	Lipase-catalyzed synthesis of glucose- <i>hexanoate</i> in deep eutectic solvents. <i>European Journal of Lipid Science and Technology</i> , 2015, 117, 161-166.	1.5	68
68	CLIP-ASAP-HSQC for fast and accurate extraction of one-bond couplings from isotropic and partially aligned molecules. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 878-885.	1.9	16
69	Autoinduced Catalysis and Inverse Equilibrium Isotope Effect in the Frustrated Lewis Pair Catalyzed Hydrogenation of Imines. <i>Chemistry - A European Journal</i> , 2015, 21, 8056-8059.	3.3	58
70	Training Schrödinger's cat: quantum optimal control. <i>European Physical Journal D</i> , 2015, 69, 1.	1.3	550
71	NMR Investigations on the Aging of Motor Oils. <i>Energy & Fuels</i> , 2015, 29, 7204-7212.	5.1	18
72	Characterisation and application of ultra-high spin clusters as magnetic resonance relaxation agents. <i>Dalton Transactions</i> , 2015, 44, 5032-5040.	3.3	29

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73	Direct prediction of residual dipolar couplings of small molecules in a stretched gel by stochastic molecular dynamics simulations. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 213-217.	1.9	24
74	Extracellular aromatic biosurfactant produced by <i>Tsukamurella pseudospumae</i> and <i>T. spumae</i> during growth on n-hexadecane. <i>Journal of Biotechnology</i> , 2015, 211, 107-114.	3.8	4
75	Integrative Analysis of Circadian Transcriptome and Metabolic Network Reveals the Role of De Novo Purine Synthesis in Circadian Control of Cell Cycle. <i>PLoS Computational Biology</i> , 2015, 11, e1004086.	3.2	29
76	Broadband excitation pulses with variable RF amplitude-dependent flip angle (RADFA). <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 886-893.	1.9	12
77	Access to Multiblock Copolymers via Supramolecular Host-Guest Chemistry and Photochemical Ligation. <i>ACS Macro Letters</i> , 2015, 4, 1062-1066.	4.8	16
78	ABC-type miktoarm star terpolymers accessed by H-bonding driven supramolecular self-assembly. <i>European Polymer Journal</i> , 2015, 62, 409-417.	5.4	24
79	A critical evaluation of heteronuclear TOCSY (HEHAHA) experiments for ^1H , ^6Li spin pairs. <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 739-744.	1.9	1
80	Coregulator Control of Androgen Receptor Action by a Novel Nuclear Receptor-binding Motif. <i>Journal of Biological Chemistry</i> , 2014, 289, 8839-8851.	3.4	46
81	Structure of the Membrane Anchor of Pestivirus Glycoprotein Erns, a Long Tilted Amphipathic Helix. <i>PLoS Pathogens</i> , 2014, 10, e1003973.	4.7	30
82	The structure of cyclolinopeptide A in chloroform refined by RDC measurements. <i>Journal of Peptide Science</i> , 2014, 20, 901-907.	1.4	11
83	Homocoupled BIRD-decoupled spectra for measuring one-bond couplings with highest resolution: CLIP/CLAP-RESET and constant-time-CLIP/CLAP-RESET. <i>Journal of Magnetic Resonance</i> , 2014, 239, 110-120.	2.1	65
84	Rapid Heteronuclear Single Quantum Correlation NMR Spectra at Natural Abundance. <i>Journal of the American Chemical Society</i> , 2014, 136, 1242-1245.	13.7	90
85	Robust INEPT and refocused INEPT transfer with compensation of a wide range of couplings, offsets, and B ₁ -field inhomogeneities (COB3). <i>Journal of Magnetic Resonance</i> , 2014, 247, 111-117.	2.1	17
86	Dendrimer-type Peptoid-decorated Hexaphenylxylenes and Tetraphenylmethanes: Synthesis and Structure in Solution and in the Gas Phase. <i>Chemistry - A European Journal</i> , 2014, 20, 16273-16278.	3.3	12
87	Trehalose lipid biosurfactants produced by the actinomycetes <i>Tsukamurella spumae</i> and <i>T. pseudospumae</i> . <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 8905-8915.	3.6	45
88	Reversible single-chain selective point folding via cyclodextrin driven host-guest chemistry in water. <i>Chemical Communications</i> , 2014, 50, 7056.	4.1	55
89	Cytotoxicity and NMR Studies of Platinum Complexes with Cyclooctadiene Ligands. <i>Organometallics</i> , 2014, 33, 4027-4034.	2.3	32
90	Nuclear Magnetic Resonance Relaxivities: Investigations of Ultrahigh-spin Lanthanide Clusters from 10 MHz to 1.4 GHz. <i>ChemPhysChem</i> , 2014, 15, 3608-3613.	2.1	14

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91	Probing Spatial Distribution of Alignment by Deuterium NMR Imaging. <i>Chemistry - A European Journal</i> , 2013, 19, 7013-7019.	3.3	52
92	Deuterium and Tritium Labelling of α -Acyloxy- β -homoserine Lactones (AHLs) by Catalytic Reduction of a Double Bond in the Layer-by-Layer Method. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 5323-5330.	2.4	6
93	The Fantastic Four: A plug $\ë$ ™ play set of optimal control pulses for enhancing NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2013, 228, 16-31.	2.1	29
94	BEBEtr and BUBI: J-compensated concurrent shaped pulses for ^1H - ^{13}C experiments. <i>Journal of Magnetic Resonance</i> , 2013, 232, 7-17.	2.1	29
95	Alternating Asymmetric Self-Induction in Functionalized Pyrrolidine Oligomers. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12736-12740.	13.8	21
96	Structural characterization of a peptoid with lysine-like side chains and biological activity using NMR and computational methods. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 640-647.	2.8	15
97	Facile Preparation of Supramolecular H-Shaped (Ter)polymers via Multiple Hydrogen Bonding. <i>ACS Macro Letters</i> , 2013, 2, 211-216.	4.8	28
98	Formation of a Polymer Surface with a Gradient of Pore Size Using a Microfluidic Chip. <i>Langmuir</i> , 2013, 29, 3797-3804.	3.5	19
99	Crosslinked Poly(ethylene oxide) as a Versatile Alignment Medium for the Measurement of Residual Anisotropic NMR Parameters. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10309-10312.	13.8	51
100	Crosslinked Poly(ethylene oxide) as a Versatile Alignment Medium for the Measurement of Residual Anisotropic NMR Parameters. <i>Angewandte Chemie</i> , 2013, 125, 10499-10502.	2.0	19
101	Influence of Freezing and Storage Procedure on Human Urine Samples in NMR-Based Metabolomics. <i>Metabolites</i> , 2013, 3, 243-258.	2.9	45
102	Noncovalently and covalently crosslinked polyurethane gels as alignment media and the suppression of residual polymer signals using diffusion-filtered spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2012, 50, S22-8.	1.9	8
103	The dynamic range of the human metabolome revealed by challenges. <i>FASEB Journal</i> , 2012, 26, 2607-2619.	0.5	268
104	A systematic approach for optimizing the robustness of pulse sequence elements with respect to couplings, offsets, and B_1 field inhomogeneities (COB). <i>Magnetic Resonance in Chemistry</i> , 2012, 50, S63-72.	1.9	20
105	HR-HSBC: Measuring heteronuclear one-bond couplings with enhanced resolution. <i>Magnetic Resonance in Chemistry</i> , 2012, 50, S58-62.	1.9	6
106	Configuration verification via RDCs on the example of a tetra-substituted pyrrolidine ring. <i>Magnetic Resonance in Chemistry</i> , 2012, 50, S92-101.	1.9	15
107	Rapid calculation of protein chemical shifts using bond polarization theory and its application to protein structure refinement. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12263.	2.8	14
108	Polystyrene Solutions: Characterization of Molecular Motional Modes by Spectrally Resolved Low- and High-Field NMR Relaxation. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 1833-1840.	2.2	12

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109	Exploring the limits of broadband 90° and 180° universal rotation pulses. <i>Journal of Magnetic Resonance</i> , 2012, 225, 142-160.	2.1	103
110	Is Enantiomer Assignment Possible by NMR Spectroscopy Using Residual Dipolar Couplings from Chiral Nonracemic Alignment Media? A Critical Assessment. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8388-8391.	13.8	60
111	New strategies for designing robust universal rotation pulses: Application to broadband refocusing at low power. <i>Journal of Magnetic Resonance</i> , 2012, 216, 78-87.	2.1	46
112	Synthesis and Conformational Analysis of Efrapeptins. <i>Chemistry - A European Journal</i> , 2012, 18, 478-487.	3.3	26
113	Naturally Occurring Biodegradable Polymers as the Basis of Chiral Gels for the Distinction of Enantiomers by Partially Oriented Nmr Spectroscopy. <i>International Journal of Artificial Organs</i> , 2011, 34, 134-138.	1.4	8
114	Rücktitelbild: Dipolare Restkopplungen als effektives Instrument der Konstitutionsanalyse: die unerwartete Bildung tricyclischer Verbindungen (<i>Angew. Chem.</i> 11/2011). <i>Angewandte Chemie</i> , 2011, 123, 2698-2698.	2.0	0
115	Towards Portable High-Resolution NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 354-356.	13.8	11
116	Residual Dipolar Couplings as a Powerful Tool for Constitutional Analysis: The Unexpected Formation of Tricyclic Compounds. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2643-2645.	13.8	83
117	Residual Chemical Shift Anisotropy (RCSA): A Tool for the Analysis of the Configuration of Small Molecules. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9487-9490.	13.8	82
118	Variable angle NMR spectroscopy and its application to the measurement of residual chemical shift anisotropy. <i>Journal of Magnetic Resonance</i> , 2011, 209, 19-30.	2.1	56
119	Targeting of the prostacyclin specific IP1 receptor in lungs with molecular conjugates comprising prostaglandin I2 analogues. <i>Biomaterials</i> , 2010, 31, 2903-2911.	11.4	14
120	Tunable Alignment for All Polymer Gel/Solvent Combinations for the Measurement of Anisotropic NMR Parameters. <i>Chemistry - A European Journal</i> , 2010, 16, 7087-7089.	3.3	65
121	Probing heterocycle conformation with residual dipolar couplings. <i>Chemical Communications</i> , 2010, 46, 5879.	4.1	30
122	Artifact-free measurement of residual dipolar couplings in DMSO by the use of cross-linked perdeuterated poly(acrylonitrile) as alignment medium. <i>Chemical Communications</i> , 2010, 46, 8273.	4.1	18
123	Cross-Fitting of Residual Dipolar Couplings. <i>The Open Spectroscopy Journal</i> , 2010, 4, 16-27.	1.0	31
124	Residual Dipolar Couplings for the Configurational and Conformational Analysis of Organic Molecules. <i>Annual Reports on NMR Spectroscopy</i> , 2009, 68, 193-232.	1.5	148
125	Region of Elongation Factor 1A1 Involved in Substrate Recognition by <i>Legionella pneumophila</i> Glucosyltransferase Lgt1. <i>Journal of Biological Chemistry</i> , 2009, 284, 20167-20174.	3.4	31
126	Structures of Storage-Induced Transformation Products of the Beer's Bitter Principles, Revealed by Sophisticated NMR Spectroscopic and LC-MS Techniques. <i>Chemistry - A European Journal</i> , 2009, 15, 13047-13058.	3.3	72

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127	Covalently Cross-linked Gelatin Allows Chiral Distinction at Elevated Temperatures and in DMSO. <i>Chemistry - A European Journal</i> , 2009, 15, 12192-12195.	3.3	50
128	Relaxation-optimised Hartmann-Hahn transfer using a specifically Tailored MOCCA-XY16 mixing sequence for carbonyl-carbonyl correlation spectroscopy in ¹³ C direct detection NMR experiments. <i>Journal of Biomolecular NMR</i> , 2009, 43, 187-196.	2.8	32
129	Residual dipolar couplings as a tool in determining the structure of organic molecules. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 483-493.	11.4	159
130	Adiabatic z-filtered J-spectroscopy for absorptive homonuclear decoupled spectra. <i>Journal of Magnetic Resonance</i> , 2009, 201, 18-24.	2.1	58
131	RDC Enhanced NMR Spectroscopy in Organic Solvent Media: The Importance for the Experimental Determination of Periodic Hydrogen Bonded Secondary Structures. <i>Journal of the American Chemical Society</i> , 2009, 131, 15590-15591.	13.7	25
132	Partial Alignment for Structure Determination of Organic Molecules. , 2008, , 1279-1285.		4
133	Linear phase slope in pulse design: Application to coherence transfer. <i>Journal of Magnetic Resonance</i> , 2008, 192, 235-243.	2.1	55
134	Synthesis and Biological Properties of Cylindramide Derivatives: Evidence for Calcium-Dependent Cytotoxicity of Tetramic Acid Lactams. <i>ChemBioChem</i> , 2008, 9, 2474-2486.	2.6	28
135	The CLIP/CLAP-HSQC: Pure absorptive spectra for the measurement of one-bond couplings. <i>Journal of Magnetic Resonance</i> , 2008, 192, 314-322.	2.1	217
136	Exploring the limits of broadband excitation and inversion: II. Rf-power optimized pulses. <i>Journal of Magnetic Resonance</i> , 2008, 194, 58-66.	2.1	108
137	Deuterated polymer gels for measuring anisotropic NMR parameters with strongly reduced artefacts. <i>Chemical Communications</i> , 2008, , 5722.	4.1	36
138	Precise Measurement of RDCs in Water and DMSO Based Gels Using a Silicone Rubber Tube for Tunable Stretching. <i>The Open Spectroscopy Journal</i> , 2008, 2, 29-33.	1.0	56
139	Stretched Poly(acrylonitrile) as a Scalable Alignment Medium for DMSO. <i>Journal of the American Chemical Society</i> , 2007, 129, 6080-6081.	13.7	92
140	Approaching the Megadalton: NMR Spectroscopy of Protein Complexes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4214-4216.	13.8	6
141	Analyses, extensions and comparison of three experimental schemes for measuring (n)CH+DCH-couplings at natural abundance. <i>Journal of Magnetic Resonance</i> , 2007, 186, 131-141.	2.1	59
142	P.E.HSQC: A simple experiment for simultaneous and sign-sensitive measurement of (1)JCH+DCH and (2)JHH+DHH couplings. <i>Journal of Magnetic Resonance</i> , 2007, 186, 193-200.	2.1	57
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