

Hans Wolfgang Spiess

List of Publications by Year in descending order

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446
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5574

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449
docs citations

449
times ranked

17251
citing authors

#	ARTICLE	IF	CITATIONS
1	Dead-Time Free Measurement of Dipole–Dipole Interactions between Electron Spins. <i>Journal of Magnetic Resonance</i> , 2000, 142, 331-340.	2.1	949
2	Self-organization of supramolecular helical dendrimers into complex electronic materials. <i>Nature</i> , 2002, 419, 384-387.	27.8	938
3	Ultrahigh Mobility in Polymer Field-Effect Transistors by Design. <i>Journal of the American Chemical Society</i> , 2011, 133, 2605-2612.	13.7	671
4	Nature of nonexponential loss of correlation above the glass transition investigated by multidimensional NMR. <i>Physical Review Letters</i> , 1991, 66, 3020-3023.	7.8	601
5	Catalyst-free Preparation of Melamine-Based Microporous Polymer Networks through Schiff Base Chemistry. <i>Journal of the American Chemical Society</i> , 2009, 131, 7216-7217.	13.7	579
6	Advanced Solid-State NMR Methods for the Elucidation of Structure and Dynamics of Molecular, Macromolecular, and Supramolecular Systems. <i>Chemical Reviews</i> , 2001, 101, 4125-4156.	47.7	482
7	Correlation of structure, mobility, and morphological information in heterogeneous polymer materials by two-dimensional wideline-separation NMR spectroscopy. <i>Macromolecules</i> , 1992, 25, 3273-3277.	4.8	478
8	Molecular dynamics of solid polymers as revealed by deuterium NMR. <i>Colloid and Polymer Science</i> , 1983, 261, 193-209.	2.1	434
9	Determination of domain sizes in heterogeneous polymers by solid-state NMR. <i>Acta Polymerica</i> , 1993, 44, 1-17.	0.9	411
10	Heterogeneity in polymer melts from melting of polymer crystals. <i>Nature Materials</i> , 2005, 4, 635-641.	27.5	321
11	High-Resolution ^1H NMR Spectroscopy in the Solid State: Very Fast Sample Rotation and Multiple-Quantum Coherences. <i>Journal of Magnetic Resonance</i> , 2001, 151, 153-227.	2.1	320
12	Tunable and Switchable Dielectric Constant in an Amphidynamic Crystal. <i>Journal of the American Chemical Society</i> , 2013, 135, 5230-5233.	13.7	307
13	Intermediate temperature proton conductors for PEM fuel cells based on phosphonic acid as protogenic group: A progress report. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1764-1773.	2.8	303
14	Deuteron spin alignment: A probe for studying ultraslow motions in solids and solid polymers. <i>Journal of Chemical Physics</i> , 1980, 72, 6755-6762.	3.0	290
15	Molecular Nature of the β Relaxation in Poly(methyl methacrylate) Investigated by Multidimensional NMR. <i>Macromolecules</i> , 1994, 27, 4733-4745.	4.8	271
16	Chain diffusion between crystalline and amorphous regions in polyethylene detected by 2D exchange carbon-13 NMR. <i>Macromolecules</i> , 1991, 24, 5288-5293.	4.8	260
17	Block Copolymer/Ceramic Hybrid Materials from Organically Modified Ceramic Precursors. <i>Chemistry of Materials</i> , 2001, 13, 3464-3486.	6.7	257
18	Photocatalytic hydrogen evolution through fully conjugated poly(azomethine) networks. <i>Chemical Communications</i> , 2010, 46, 8932.	4.1	235

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19	Rate Memory of Structural Relaxation in Glasses and Its Detection by Multidimensional NMR. Physical Review Letters, 1995, 75, 2851-2854.	7.8	234
20	Dipolar spectroscopy and spin alignment in electron paramagnetic resonance. Chemical Physics Letters, 2000, 331, 243-252.	2.6	173
21	Length scale of dynamic heterogeneity in supercooled glycerol near T _g . Journal of Chemical Physics, 2001, 114, 7299-7302.	3.0	173
22	The NMR-WEBLAB: An internet approach to NMR lineshape analysis. Applied Magnetic Resonance, 2001, 20, 405-432.	1.2	171
23	Self-Assembly of Dendronized Triphenylenes into Helical Pyramidal Columns and Chiral Spheres. Journal of the American Chemical Society, 2009, 131, 7662-7677.	13.7	169
24	Dynamics of molecular reorientations: direct determination of rotational angles from two-dimensional NMR of powders. Chemical Physics Letters, 1986, 130, 84-90.	2.6	165
25	High-Resolution Solid-State NMR Studies of Imidazole-Based Proton Conductors: Structure Motifs and Chemical Exchange from ¹ H NMR. Journal of Physical Chemistry B, 2002, 106, 9322-9334.	2.6	164
26	Structure and Dynamics in Columnar Discotic Materials: A Combined X-ray and Solid-State NMR Study of Hexabenzocoronene Derivatives. Journal of Physical Chemistry B, 2002, 106, 6408-6418.	2.6	163
27	Stiff macromolecules with aliphatic side chains: side-chain mobility, conformation, and organization from 2D solid-state NMR spectroscopy. Macromolecules, 1992, 25, 5208-5214.	4.8	160
28	A Strategy for Revealing the Packing in Semicrystalline Conjugated Polymers: Crystal Structure of Bulk Polyhexylthiophene (P3HT). Angewandte Chemie - International Edition, 2012, 51, 11068-11072.	13.8	160
29	Nuclear Magnetic Resonance in In_2O_3 Semiconductors. Physica Status Solidi (B): Basic Research, 1974, 62, 183-192.	1.5	159
30	Two-dimensional solid-state NMR studies of ultraslow chain motion: glass transition in atactic poly(propylene) versus helical jumps in isotactic poly(propylene). Macromolecules, 1990, 23, 3431-3439.	4.8	152
31	Dipolar Heteronuclear Multiple-Quantum NMR Spectroscopy in Rotating Solids. Journal of Magnetic Resonance Series A, 1995, 113, 131-134.	1.6	150
32	A supramolecular helix that disregards chirality. Nature Chemistry, 2016, 8, 80-89.	13.6	147
33	Structure Assignment in the Solid State by the Coupling of Quantum Chemical Calculations with NMR Experiments: A Columnar Hexabenzocoronene Derivative. Journal of the American Chemical Society, 2001, 123, 2597-2606.	13.7	145
34	Parameters Influencing the Templated Growth of Colloidal Crystals on Chemically Patterned Surfaces. Langmuir, 2004, 20, 9114-9123.	3.5	142
35	Homochiral Columns Constructed by Chiral Self-Sorting During Supramolecular Helical Organization of Hat-Shaped Molecules. Journal of the American Chemical Society, 2014, 136, 7169-7185.	13.7	141
36	High-resolution double-quantum NMR spectroscopy of homonuclear spin pairs and proton connectivities in solids. Chemical Physics Letters, 1995, 243, 314-323.	2.6	139

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37	High-Resolution Solid-State NMR Studies of Poly(vinyl phosphonic acid) Proton-Conducting Polymer: Molecular Structure and Proton Dynamics. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9711-9721.	2.6	138
38	Separation of the Nonlinear Oscillatory Response into a Superposition of Linear, Strain Hardening, Strain Softening, and Wall Slip Response. <i>Macromolecules</i> , 2007, 40, 4250-4259.	4.8	136
39	Two-dimensional exchange NMR of powder samples. II. The dynamic evolution of two-time distribution functions. <i>Journal of Chemical Physics</i> , 1988, 89, 1234-1244.	3.0	134
40	Two-dimensional exchange nuclear magnetic resonance of powder samples. III. Transition to motional averaging and application to the glass transition. <i>Journal of Chemical Physics</i> , 1990, 93, 197-214.	3.0	131
41	Solid-state proton multiple-quantum NMR spectroscopy with fast magic angle spinning. <i>Chemical Physics Letters</i> , 1994, 227, 79-86.	2.6	131
42	Structure and order in partially oriented solids: Characterization by 2D-magic-angle spinning NMR. <i>Journal of Chemical Physics</i> , 1987, 86, 1206-1218.	3.0	130
43	Local and cooperative motions at the glass transition of polystyrene: information from one- and two-dimensional NMR as compared with other techniques. <i>Macromolecules</i> , 1991, 24, 398-402.	4.8	129
44	Packing Interactions in Hydrated and Anhydrous Forms of the Antibiotic Ciprofloxacin: a Solid-State NMR, X-ray Diffraction, and Computer Simulation Study. <i>Journal of the American Chemical Society</i> , 2012, 134, 71-74.	13.7	128
45	Solid echoes in the slow-motion region. <i>Journal of Magnetic Resonance</i> , 1981, 42, 381-389.	0.5	127
46	¹ H Fast MAS NMR Studies of Hydrogen-Bonding Interactions in Self-Assembled Monolayers. <i>Journal of the American Chemical Society</i> , 2003, 125, 4174-4184.	13.7	127
47	Dynamics of molecular reorientations: Analogies between quasielastic neutron scattering and deuteron NMR spin alignment. <i>Journal of Chemical Physics</i> , 1986, 84, 4579-4584.	3.0	126
48	Two-dimensional exchange NMR of powder samples. I. Two-time distribution functions. <i>Journal of Chemical Physics</i> , 1988, 89, 1219-1233.	3.0	125
49	Poly(p-phenylenevinylene) by chemical vapor deposition: synthesis, structural evaluation, glass transition, electroluminescence, and photoluminescence. <i>Synthetic Metals</i> , 1996, 82, 1-9.	3.9	124
50	Self-Assembly of Dendronized Perylene Bisimides into Complex Helical Columns. <i>Journal of the American Chemical Society</i> , 2011, 133, 12197-12219.	13.7	120
51	Molecular motion studied by NMR powder spectra. II. Experimental results for solid P4 and solid Fe(CO) ₅ . <i>Chemical Physics</i> , 1974, 6, 226-234.	1.9	119
52	Structure and dynamics of solid polymers from 2D- and 3D-NMR. <i>Chemical Reviews</i> , 1991, 91, 1321-1338.	47.7	119
53	Benzoxazole Resin: A Novel Class of Thermoset Polymer via Smart Benzoxazine Resin. <i>Macromolecules</i> , 2012, 45, 8991-8997.	4.8	118
54	Phenylene motion in polycarbonate and polycarbonate/additive mixtures. <i>Colloid and Polymer Science</i> , 1987, 265, 815-822.	2.1	117

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55	Benzoxazine Oligomers: Evidence for a Helical Structure from Solid-State NMR Spectroscopy and DFT-Based Dynamics and Chemical Shift Calculations. <i>Journal of the American Chemical Society</i> , 2003, 125, 5792-5800.	13.7	116
56	Self-Assembly of Semifluorinated Dendrons Attached to Electron-Donor Groups Mediates Their π -Stacking via a Helical Pyramidal Column. <i>Chemistry - A European Journal</i> , 2006, 12, 6298-6314.	3.3	116
57	Coupling of α - and β -Processes in Poly(ethyl methacrylate) Investigated by Multidimensional NMR. <i>Macromolecules</i> , 1994, 27, 4746-4754.	4.8	114
58	Structure of Crystalline Phosphates from ^{31}P Double-Quantum NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 1996, 118, 9631-9634.	13.7	114
59	An infrared spectroscopic study of photo-induced reorientation in dye containing liquid-crystalline polymers. <i>Liquid Crystals</i> , 1992, 11, 251-267.	2.2	111
60	Solid-State NMR in Macromolecular Systems: Insights on How Molecular Entities Move. <i>Accounts of Chemical Research</i> , 2013, 46, 1996-2007.	15.6	110
61	Ring-Expansion Metathesis Polymerization: Catalyst-Dependent Polymerization Profiles. <i>Journal of the American Chemical Society</i> , 2009, 131, 2670-2677.	13.7	109
62	Site-Selective Growth of Colloidal Crystals with Photonic Properties on Chemically Patterned Surfaces. <i>Advanced Materials</i> , 2003, 15, 1025-1028.	21.0	107
63	Supramolecular Assembly of Dendritic Polymers Elucidated by ^1H and ^{13}C Solid-State MAS NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2003, 125, 13284-13297.	13.7	106
64	Surface Modification with Orthogonal Photosensitive Silanes for Sequential Chemical Lithography and Site-Selective Particle Deposition. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4707-4712.	13.8	106
65	EPR Spectroscopic Characterization of Local Nanoscopic Heterogeneities during the Thermal Collapse of Thermoresponsive Dendronized Polymers. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5683-5687.	13.8	105
66	Two-dimensional exchange nuclear magnetic resonance of powder samples. IV. Distribution of correlation times and line shapes in the intermediate dynamic range. <i>Journal of Chemical Physics</i> , 1992, 97, 7944-7954.	3.0	103
67	Deuteron n.m.r. study of chain motion in solid polyethylene. <i>Polymer</i> , 1984, 25, 1078-1086.	3.8	102
68	Miscibility of polymer blends investigated by ^1H spin diffusion and ^{13}C NMR detection. <i>Magnetic Resonance in Chemistry</i> , 1990, 28, S3-S9.	1.9	100
69	Oxygen- ^{17}O Quadrupole Coupling Parameters for Water in Its Various Phases. <i>Journal of Chemical Physics</i> , 1969, 51, 1201-1205.	3.0	99
70	Interplay of Structure and Dynamics in Functional Macromolecular and Supramolecular Systems As Revealed by Magnetic Resonance Spectroscopy. <i>Chemical Reviews</i> , 2016, 116, 1272-1308.	47.7	99
71	Transformation from Kinetically into Thermodynamically Controlled Self-Organization of Complex Helical Columns with 3D Periodicity Assembled from Dendronized Perylene Bisimides. <i>Journal of the American Chemical Society</i> , 2013, 135, 4129-4148.	13.7	98
72	Design and synthesis of a two compartment micellar system based on the self-association behavior of poly(N-acyl ethyleneimine) end-capped with a fluorocarbon and a hydrocarbon chain. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 995-1007.	2.2	97

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73	Crystallization of PDMS: The effect of physical and chemical crosslinks. Europhysics Letters, 2002, 60, 390-396.	2.0	96
74	Structural properties of amorphous hydrogenated carbon. III. NMR investigations. Physical Review B, 1994, 50, 846-852.	3.2	95
75	Structural Studies of Nanophase-Separated Poly(2-hydroxyethyl methacrylate)-l-polyisobutylene Amphiphilic Conetworks by Solid-State NMR and Small-Angle X-ray Scattering. Macromolecules, 2003, 36, 9107-9114.	4.8	95
76	Frequency Dependence of Orientation in Dynamically Sheared Diblock Copolymers. Macromolecules, 1995, 28, 778-781.	4.8	94
77	Bulk Chemical Shifts in Hydrogen-Bonded Systems from First-Principles Calculations and Solid-State-NMR. Journal of Physical Chemistry B, 2006, 110, 23204-23210.	2.6	94
78	Long-Lived ^1H Singlet Spin States Originating from Para-Hydrogen in Cs-Symmetric Molecules Stored for Minutes in High Magnetic Fields. Journal of the American Chemical Society, 2012, 134, 10393-10396.	13.7	94
79	A solid-state n.m.r. study of microphase structure and segmental dynamics of poly(styrene-b-methylphenylsiloxane) diblock copolymers. Polymer, 1993, 34, 267-276.	3.8	92
80	Water sorption of poly(vinylphosphonic acid) and its influence on proton conductivity. Solid State Ionics, 2007, 178, 469-474.	2.7	88
81	Orientalional distributions in partially ordered solids as determined from NMR and ESR line shapes. Journal of Chemical Physics, 1978, 68, 56.	3.0	87
82	Experimental Aspects of Multidimensional Exchange Solid-State NMR. Journal of Magnetic Resonance Series A, 1995, 115, 60-79.	1.6	86
83	Optimisation and Application of Polyolefin Branch Quantification by Melt-State ^{13}C NMR Spectroscopy. Macromolecular Chemistry and Physics, 2006, 207, 382-395.	2.2	84
84	^1H spin diffusion coefficients of highly mobile polymers. Polymer, 1993, 34, 4566-4569.	3.8	83
85	Self-Repairing Complex Helical Columns Generated via Kinetically Controlled Self-Assembly of Dendronized Perylene Bisimides. Journal of the American Chemical Society, 2011, 133, 18479-18494.	13.7	82
86	NMR Studies of the Effect of Adsorbed Water on Polyelectrolyte Multilayer Films in the Solid State. Macromolecules, 2003, 36, 3616-3625.	4.8	81
87	Anhydrous proton-conducting properties of triazole-phosphonic acid copolymers: a combined study with MAS NMR. Physical Chemistry Chemical Physics, 2008, 10, 6058.	2.8	81
88	Self-Assembly, Molecular Dynamics, and Kinetics of Structure Formation in Dipole-Functionalized Discotic Liquid Crystals. Journal of the American Chemical Society, 2008, 130, 5311-5319.	13.7	80
89	Cooperative Molecular Motion within a Self-Assembled Liquid-Crystalline Molecular Wire: The Case of a TEG-Substituted Perylenediimide Disc. Angewandte Chemie - International Edition, 2009, 48, 4621-4624.	13.8	79
90	Empty Helical Nanochannels with Adjustable Order from Low-Symmetry Macrocycles. Angewandte Chemie - International Edition, 2011, 50, 3030-3033.	13.8	79

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91	An Investigation of the Hydrogen-Bonding Structure in Bilirubin by ^1H Double-Quantum Magic-Angle Spinning Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2001, 123, 4275-4285.	13.7	78
92	Local Order and Chain Dynamics in Molten Polymer Blocks Revealed by Proton Double-Quantum NMR. <i>Macromolecules</i> , 2001, 34, 298-309.	4.8	78
93	Transient States in [2 + 2] Photodimerization of Cinnamic Acid: Correlation of Solid-State NMR and X-ray Analysis. <i>Journal of the American Chemical Society</i> , 2008, 130, 1741-1748.	13.7	77
94	Anisotropic Chemical Shifts in Cobalt (III) Complexes. <i>Journal of Chemical Physics</i> , 1969, 50, 3057-3064.	3.0	76
95	Recoupled Polarization-Transfer Methods for Solid-State ^1H - ^{13}C Heteronuclear Correlation in the Limit of Fast MAS. <i>Journal of Magnetic Resonance</i> , 2001, 148, 398-418.	2.1	76
96	Formation of a Mesoscopic Skin Barrier in Mesoglobules of Thermoresponsive Polymers. <i>Journal of the American Chemical Society</i> , 2011, 133, 10832-10838.	13.7	76
97	Comparative study of the NMR length scale of dynamic heterogeneities of three different glass formers. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 208-214.	3.1	75
98	Two-Dimensional Solid-State NMR Spectroscopy: New Possibilities for the Investigation of the Structure and Dynamics of Solid Polymers [New Analytical Methods (38)]. <i>Angewandte Chemie International Edition in English</i> , 1988, 27, 1655-1672.	4.4	73
99	Deuteron two-dimensional exchange NMR in solids. <i>Journal of Magnetic Resonance</i> , 1988, 79, 269-290.	0.5	73
100	Restricted Segmental Mobility Can Facilitate Medium-Range Chain Diffusion: A NMR Study of Morphological Influence on Chain Dynamics of Polyethylene. <i>Macromolecules</i> , 2008, 41, 2514-2519.	4.8	73
101	Molecular motion studied by NMR powder spectra. I. Lineshape calculation for axially symmetric shielding tensors. <i>Chemical Physics</i> , 1974, 6, 217-225.	1.9	72
102	Interplay of Structure and Dynamics in Macromolecular and Supramolecular Systems. <i>Macromolecules</i> , 2010, 43, 5479-5491.	4.8	72
103	NMR Studies of PAH/PSS Polyelectrolyte Multilayers Adsorbed onto Silica. <i>Macromolecules</i> , 2004, 37, 4830-4838.	4.8	71
104	Pseudo-solid echoes of proton and deuteron NMR in polyethylene melts. <i>Colloid and Polymer Science</i> , 1981, 259, 220-226.	2.1	69
105	Orientalional distribution of polymer chains studied by ^2H n.m.r. line shapes. <i>Polymer</i> , 1981, 22, 1516-1521.	3.8	69
106	Molecular dynamics at the glass transition: One dimensional and two dimensional nuclear magnetic resonance studies of a glass-forming discotic liquid crystal. <i>Journal of Chemical Physics</i> , 1992, 97, 3749-3759.	3.0	69
107	Molecular orientation distributions in poly(ethylene terephthalate) thin films and fibers from multidimensional DECODER NMR spectroscopy. <i>Macromolecules</i> , 1993, 26, 2282-2296.	4.8	69
108	Characterization of polymer dispersions by Fourier transform rheology. <i>Rheologica Acta</i> , 2001, 40, 552-559.	2.4	69

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109	Effect of functionalization on glass formation by columnar mesophases of substituted triphenylene mesogens. <i>Liquid Crystals</i> , 1991, 10, 759-770.	2.2	67
110	Level anti-crossings in ParaHydrogen Induced Polarization experiments with Cs-symmetric molecules. <i>Journal of Magnetic Resonance</i> , 2012, 219, 33-40.	2.1	67
111	Chain dynamics in the crystalline $\hat{\pm}$ -phase of poly(vinylidene fluoride) by two-dimensional exchange deuteron NMR. <i>Macromolecules</i> , 1991, 24, 2428-2433.	4.8	66
112	NMR Studies of the Structure and Dynamics of Polymer Gels Based on N-Isopropylacrylamide (NiPAAm) and Methacrylic Acid (MAA). <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 491-502.	2.2	66
113	Influence of Hydrogen Bonds on the Supramolecular Order of Hexa-peri-hexabenzocoronenes. <i>Advanced Functional Materials</i> , 2005, 15, 1585-1594.	14.9	66
114	Continuous ^1H and ^{13}C Signal Enhancement in NMR Spectroscopy and MRI Using Parahydrogen and Hollow-Fiber Membranes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8358-8362.	13.8	66
115	Photochemistry and Mobility of Stilbenoid Dendrimers in Their Neat Phases. <i>Journal of the American Chemical Society</i> , 2004, 126, 772-784.	13.7	65
116	Heteronuclear ^1H - ^{13}C multiple-spin correlation in solid-state nuclear magnetic resonance: Combining rotational-echo double-resonance recoupling and multiple-quantum spectroscopy. <i>Journal of Chemical Physics</i> , 2001, 114, 5707-5728.	3.0	64
117	The Distribution of Fatty Acids Reveals the Functional Structure of Human Serum Albumin. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8755-8759.	13.8	64
118	Solid-State ^{13}C -NMR Investigation of the Disorder in Crystalline Syndiotactic Polypropylene. <i>Macromolecules</i> , 1995, 28, 6902-6910.	4.8	63
119	Inverse Detection and Heteronuclear Editing in ^1H - ^{15}N Correlation and ^1H - ^1H Double-Quantum NMR Spectroscopy in the Solid State under Fast MAS. <i>Journal of Magnetic Resonance</i> , 2001, 150, 57-70.	2.1	63
120	Spinning Sidebands in the Fast-MAS Multiple-Quantum Spectra of Protons in Solids. <i>Journal of Magnetic Resonance Series A</i> , 1995, 114, 264-267.	1.6	62
121	Solid-State NMR Investigations of Molecular Dynamics in Polyphenylene Dendrimers: Evidence of Dense-Shell Packing. <i>Macromolecules</i> , 2002, 35, 10071-10086.	4.8	62
122	Observation of Chain Branching in Polyethylene in the Solid State and Melt via ^{13}C NMR Spectroscopy and Melt NMR Relaxation Time Measurements. <i>Macromolecules</i> , 2004, 37, 813-825.	4.8	62
123	^2H Solid-State NMR of Mobile Protons: It Is Not Always the Simple Way. <i>Journal of the American Chemical Society</i> , 2007, 129, 12406-12407.	13.7	62
124	Dynamic magic-angle spinning nmr spectroscopy: exchange-induced sidebands. <i>Chemical Physics Letters</i> , 1987, 139, 239-243.	2.6	61
125	Dead-time free measurement of dipole-dipole interactions between electron spins. <i>Journal of Magnetic Resonance</i> , 2011, 213, 316-325.	2.1	61
126	Title is missing!. <i>Acta Polymerica</i> , 1994, 45, 148-159.	0.9	59

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127	Quadruple hydrogen bonds of ureido-pyrimidinone moieties investigated in the solid state by ^1H double-quantum MAS NMR spectroscopy Presented as part of a plenary lecture by H. W. Spiess at the annual meeting of the Deutsche Bunsen-Gesellschaft für Physikalische Chemie, Potsdam, May 9–11, 2002.. Physical Chemistry Chemical Physics, 2002, 4, 3750-3758.	2.8	59
128	<i>50th Anniversary Perspective</i>: The Importance of NMR Spectroscopy to Macromolecular Science. Macromolecules, 2017, 50, 1761-1777.	4.8	59
129	Two-dimensional nuclear magnetic resonance with sample flip for characterizing orientation distributions, and its analogy to X-ray scattering. Journal of Chemical Physics, 1992, 97, 2247-2262.	3.0	58
130	Multiple-Pulse Line Narrowing under Fast Magic-Angle Spinning. Journal of Magnetic Resonance Series A, 1996, 121, 160-166.	1.6	58
131	Polyethylene Functionalized with Precisely Spaced Phosphonic Acid Groups. Macromolecules, 2009, 42, 4407-4409.	4.8	57
132	Determination of Ion Cluster Sizes and Cluster-to-Cluster Distances in Ionomers by Four-Pulse Double Electron Electron Resonance Spectroscopy. Macromolecules, 2000, 33, 7812-7818.	4.8	56
133	Dynamics, Site Binding, and Distribution of Counterions in Polyelectrolyte Solutions Studied by Electron Paramagnetic Resonance Spectroscopy. Journal of Physical Chemistry B, 2004, 108, 3698-3704.	2.6	56
134	Morphological differences in semicrystalline polymers: Implications for local dynamics and chain diffusion. Physical Review E, 2007, 76, 060801.	2.1	56
135	Hierarchical Self-Organization of Perylene Bisimides into Supramolecular Spheres and Periodic Arrays Thereof. Journal of the American Chemical Society, 2016, 138, 14798-14807.	13.7	56
136	Fast Magic-Angle Spinning and Double-Quantum ^1H Solid-State NMR Spectroscopy of Polyelectrolyte Multilayers. Advanced Materials, 2000, 12, 1934-1938.	21.0	55
137	Self-Assembly, Dynamics, and Phase Transformation Kinetics of Donor-Acceptor Substituted Perylene Derivatives. Journal of the American Chemical Society, 2010, 132, 7478-7487.	13.7	54
138	Deuteron n.m.r. in relation to the glass transition in polymers. Polymer, 1985, 26, 203-207.	3.8	53
139	Molecular dynamics and the glass transition in a columnar liquid crystal formed by a chiral discotic mesogen. Liquid Crystals, 1990, 8, 889-893.	2.2	53
140	Structural Relaxation of Polymers at the Glass Transition: Conformational Memory in Poly(n-alkylmethacrylates). Physical Review Letters, 2003, 91, 155702.	7.8	53
141	Structure of Molecular Tweezer Complexes in the Solid State: NMR Experiments, X-ray Investigations, and Quantum Chemical Calculations. Journal of the American Chemical Society, 2007, 129, 1293-1303.	13.7	53
142	Origin of the Complex Molecular Dynamics in Functionalized Discotic Liquid Crystals. Physical Review Letters, 2008, 100, 107801.	7.8	53
143	Conformational exchange near the glass transition: two-dimensional carbon-13 NMR study of atactic polypropylene. Macromolecules, 1991, 24, 6874-6876.	4.8	52
144	Phenylene motion in polycarbonate: Influence of tensile stress and chemical modification. Colloid and Polymer Science, 1993, 271, 446-453.	2.1	52

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145	Effect of Interfaces on the Crystallization Behavior of PDMS. Journal of Materials Science, 2003, 11, 199-209.	1.2	52
146	Unravelling the fine structure of stacked bipyridine diamine-derived C3-discotics as determined by X-ray diffraction, quantum-chemical calculations, Fast-MAS NMR and CD spectroscopy. Chemical Science, 2011, 2, 69-76.	7.4	52
147	Chain motion in the amorphous regions of polyethylene as revealed by Deuteron magnetic resonance. Macromolecules, 1981, 14, 1605-1607.	4.8	51
148	Investigation of an $Ni_2^{1/2}Zn_2^{1/2}H$ hydrogen bond in a solid benzoxazine dimer by $1H$ - $15N$ NMR correlation techniques under fast magic-angle spinning. Magnetic Resonance in Chemistry, 2001, 39, S5-S17.	1.9	51
149	Direct detection of connectivities in glasses by 2D NMR. Journal of Non-Crystalline Solids, 1994, 180, 91-95.	3.1	50
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