

Ronald J Pugmire

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131
papers

6,150
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44
h-index

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141
ext. papers

6,529
ext. citations

6.3
avg, IF

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L-index

#	Paper	IF	Citations
131	Carbon-13 solid-state NMR of Argonne-premium coals. <i>Energy & Fuels</i> , 1989 , 3, 187-193	4.1	470
130	Chemical model of coal devolatilization using percolation lattice statistics. <i>Energy & Fuels</i> , 1989 , 3, 175-186	4.1	347
129	Chemical percolation model for devolatilization. 3. Direct use of carbon-13 NMR data to predict effects of coal type. <i>Energy & Fuels</i> , 1992 , 6, 414-431	4.1	284
128	Cross polarization and magic angle sample spinning NMR spectra of model organic compounds. 3. Effect of the carbon-13-proton dipolar interaction on cross polarization and carbon-proton dephasing. <i>Journal of the American Chemical Society</i> , 1983 , 105, 6697-6704	16.4	224
127	Carbon-13 magnetic resonance. XXVI. A quantitative determination of the tautomeric populations of certain purines. <i>Journal of the American Chemical Society</i> , 1975 , 97, 4636-42	16.4	216
126	Chemical percolation model for devolatilization. 2. Temperature and heating rate effects on product yields. <i>Energy & Fuels</i> , 1990 , 4, 54-60	4.1	197
125	Cross polarization and magic angle sample spinning NMR spectra of model organic compounds. 1. Highly protonated molecules. <i>Journal of the American Chemical Society</i> , 1983 , 105, 2133-2141	16.4	162
124	Carbon-13 magnetic resonance. X. Six-membered nitrogen heterocycles and their cations. <i>Journal of the American Chemical Society</i> , 1968 , 90, 697-706	16.4	159
123	Carbon-13 magnetic resonance. XXV. A basic set of parameters for the investigation of tautomerism in purines. Established from carbon-13 magnetic resonance studies using certain purines and pyrrolo[2,3-d]pyrimidines. <i>Journal of the American Chemical Society</i> , 1975 , 97, 4627-36	16.4	156
122	Development and Application of a Correlation of ¹³ C NMR Chemical Structural Analyses of Coal Based on Elemental Composition and Volatile Matter Content. <i>Energy & Fuels</i> , 1999 , 13, 60-68	4.1	140
121	A sensitive, high resolution magic angle turning experiment for measuring chemical shift tensor principal values. <i>Molecular Physics</i> , 1998 , 95, 1113-1126	1.7	126
120	Carbon-13 magnetic resonance. XIX. Benzimidazole, purine, and their anionic and cationic species. <i>Journal of the American Chemical Society</i> , 1971 , 93, 1880-1887	16.4	124
119	¹³ C NMR Analysis of Soot Produced from Model Compounds and a Coal. <i>Energy & Fuels</i> , 2001 , 15, 961-971	4.1	120
118	Structural characterization of vitrinite-rich and inertinite-rich Permian-aged South African bituminous coals. <i>International Journal of Coal Geology</i> , 2008 , 76, 290-300	5.5	116
117	Cross polarization and magic angle sample spinning NMR spectra of model organic compounds. 2. Molecules of low or remote protonation. <i>Journal of the American Chemical Society</i> , 1983 , 105, 2142-2147	16.4	104
116	Carbon-13 magnetic resonance. XIV. Aza-analogs of polycyclic aromatic hydrocarbons. <i>Journal of the American Chemical Society</i> , 1969 , 91, 6381-6389	16.4	98
115	Production of Diethyl Carbonate from Ethanol and Carbon Monoxide over a Heterogeneous Catalyst. <i>Energy & Fuels</i> , 2002 , 16, 177-181	4.1	97

114	15N Chemical Shift Principal Values in Nitrogen Heterocycles. <i>Journal of the American Chemical Society</i> , 1997 , 119, 9804-9809	16.4	96
113	The Structure and Reaction Processes of Coal 1994 ,		92
112	Carbon-13 magnetic resonance. XII. Five-membered nitrogen heterocycles and their charged species. <i>Journal of the American Chemical Society</i> , 1968 , 90, 4232-4238	16.4	89
111	15N Chemical Shift Tensors in Nucleic Acid Bases. <i>Journal of the American Chemical Society</i> , 1998 , 120, 9863-9869	16.4	76
110	Carbon-13 CP/MAS spectroscopy of coal macerals. <i>Fuel</i> , 1981 , 60, 717-722	7.1	76
109	Three-Dimensional Structure of the Siskin Green River Oil Shale Kerogen Model: A Comparison between Calculated and Observed Properties. <i>Energy & Fuels</i> , 2013 , 27, 702-710	4.1	75
108	Silica aerogel supported catalysts for Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2005 , 278, 233-238	5.1	66
107	Nuclear magnetic resonance spectroscopy of soils and related materials. Relaxation of 13C nuclei in cross polarization nuclear magnetic resonance experiments. <i>Organic Geochemistry</i> , 1983 , 5, 121-129	3.1	66
106	Characterization of Macromolecular Structure Elements from a Green River Oil Shale, II. Characterization of Pyrolysis Products by 13C NMR, GC/MS, and FTIR. <i>Energy & Fuels</i> , 2014 , 28, 2959-2970	4.1	61
105	Characterization of fine particulate matter produced by combustion of residual fuel oil. <i>Journal of the Air and Waste Management Association</i> , 2000 , 50, 1106-14	2.4	61
104	Structural Determination in Carbonaceous Solids Using Advanced Solid State NMR Techniques. <i>Energy & Fuels</i> , 2001 , 15, 14-22	4.1	59
103	Effects of Hydrogen Bonding in the Calculation of 15N Chemical Shift Tensors: Benzamide. <i>Journal of the American Chemical Society</i> , 1996 , 118, 5488-5489	16.4	59
102	Revised structure of bistramide A (bistratene A): application of a new program for the automated analysis of 2D INADEQUATE spectra. <i>Journal of the American Chemical Society</i> , 1992 , 114, 1110-1111	16.4	57
101	Methyl Libration in Propane Measured with Neutron Inelastic Scattering. <i>Journal of Chemical Physics</i> , 1970 , 52, 4424-4436	3.9	55
100	Carbon-13 magnetic resonance. XX. 4-Azaindene (pyrrocoline) and related bridgehead nitrogen heterocycles. <i>Journal of the American Chemical Society</i> , 1971 , 93, 1887-1893	16.4	55
99	Carbon-13 magnetic resonance. XXII. The N-methylpurines. <i>Journal of the American Chemical Society</i> , 1973 , 95, 2791-6	16.4	55
98	Solid state magnetic resonance spectra of Illinois No. 6 coal and some reductive alkylation products. <i>Fuel</i> , 1984 , 63, 513-521	7.1	54
97	Carbon-13 magnetic resonance investigation of retinal isomers and related compounds. <i>Journal of the American Chemical Society</i> , 1974 , 96, 7008-14	16.4	54

96	Structural evolution of matched tar-char pairs in rapid pyrolysis experiments. <i>Fuel</i> , 1991 , 70, 414-423	7.1	50
95	Prediction of Sooting Tendency for Hydrocarbon Liquids in Diffusion Flames. <i>Energy & Fuels</i> , 2005 , 19, 2408-2415	4.1	49
94	Investigation of the Structural Conformation of Biphenyl by Solid State ¹³ C NMR and Quantum Chemical NMR Shift Calculations. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 6780-6784	2.8	48
93	Cross-polarization ¹³ C-NMR spectroscopy with magic angle spinning characterizes organic matter in whole soils. <i>Nature</i> , 1981 , 294, 648-650	50.4	48
92	Production of diethyl carbonate from ethanol and carbon monoxide over a heterogeneous catalytic flow reactor. <i>Fuel Processing Technology</i> , 2003 , 83, 27-38	7.2	47
91	Characterization of Macromolecular Structure Elements from a Green River Oil Shale, I. Extracts. <i>Energy & Fuels</i> , 2014 , 28, 453-465	4.1	46
90	Carbon-13 magnetic resonance of coal-derived liquids. <i>Fuel</i> , 1977 , 56, 295-301	7.1	46
89	Measurement of ¹³ C chemical shift tensor principal values with a magic-angle turning experiment. <i>Solid State Nuclear Magnetic Resonance</i> , 1994 , 3, 181-97	3.1	45
88	Solution and solid carbon-13 magnetic resonance study of the conformation of 9,10-dihydroanthracene and its 9,10-methylated derivatives. <i>Journal of the American Chemical Society</i> , 1981 , 103, 4817-4824	16.4	45
87	Technique for importing greater evolution resolution in multidimensional NMR spectrum. <i>Journal of Magnetic Resonance</i> , 1997 , 129, 134-44	3	44
86	Characterization of Macromolecular Structure of Pyrolysis Products from a Colorado Green River Oil Shale. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 15522-15532	3.9	43
85	¹⁵ N CPMAS NMR of the Argonne Premium Coals. <i>Energy & Fuels</i> , 1997 , 11, 491-494	4.1	43
84	Carbon-13 Shift Tensors in Polycyclic Aromatic Compounds. 8.1 A Low-Temperature NMR Study of Coronene and Corannulene. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 149-155	2.8	42
83	Improvements in the computerized analysis of 2D INADEQUATE spectra. <i>Analytical Chemistry</i> , 1992 , 64, 3133-49	7.8	38
82	A comparison of the carbon-13 n.m.r. spectra of solid coals and their liquids obtained by catalytic hydrogenation. <i>Fuel</i> , 1979 , 58, 11-16	7.1	38
81	Modeling Nitrogen Evolution during Coal Pyrolysis Based on a Global Free-Radical Mechanism. <i>Energy & Fuels</i> , 2000 , 14, 1094-1102	4.1	33
80	Solid State ¹⁵ N and ¹³ C NMR Study of Several Metal 5,10,15,20-Tetraphenylporphyrin Complexes. <i>Journal of the American Chemical Society</i> , 1997 , 119, 7114-7120	16.4	31
79	Chemical structure of char in the transition from devolatilization to combustion. <i>Energy & Fuels</i> , 1992 , 6, 643-650	4.1	31

78	A new high pressure sapphire nuclear magnetic resonance cell. <i>Review of Scientific Instruments</i> , 1996 , 67, 240-243	1.7	30
77	A simple synthesis of catalytically active, high surface area ceria aerogels. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 5509-5514	3.9	28
76	Iron Aerogel and Xerogel Catalysts for Fischer-Tropsch Synthesis of Diesel Fuel. <i>Energy & Fuels</i> , 2009 , 23, 14-18	4.1	27
75	Quantitative determination of different carbon types in fusinite and anthracite coals from carbon-13 nuclear magnetic resonance chemical shielding line-shape analysis. <i>Analytical Chemistry</i> , 1988 , 60, 1574-1579	7.8	27
74	Carbon-13 NMR spectra of C-nucleosides. II. A study on the tautomerism of formycin and formycin B by the use of CMR spectroscopy. <i>Journal of Heterocyclic Chemistry</i> , 1973 , 10, 431-433	1.9	27
73	Rotational diffusion anisotropy in near ellipsoidal molecules. <i>Journal of the American Chemical Society</i> , 1973 , 95, 8465-8467	16.4	27
72	A New Method for Measuring the Graphite Content of Anthracite Coals and Soots. <i>Energy & Fuels</i> , 2002 , 16, 1296-1300	4.1	26
71	Modified spectral editing methods for (13)C CP/MAS experiments in solids. <i>Journal of Magnetic Resonance</i> , 2000 , 142, 326-30	3	26
70	Carbon-13 Chemical Shift Tensors and Molecular Conformation of Anisole. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 8268-8272		25
69	Correlation of ring nitrogen substituents with carbon-13 nuclear magnetic resonance data in azoloazines. <i>Journal of Heterocyclic Chemistry</i> , 1987 , 24, 805-809	1.9	25
68	Torsional frequencies and barriers to methyl rotation in isobutylene, O-xylene, and durene. <i>Journal of Chemical Physics</i> , 1973 , 58, 1438-1445	3.9	25
67	Applications of the improved computerized analysis of 2D INADEQUATE spectra. <i>Analytical Chemistry</i> , 1992 , 64, 3150-60	7.8	24
66	Structural variations and evidence of segmental motion in the aliphatic region in coals observed with dipolar-dephasing NMR. <i>Energy & Fuels</i> , 1987 , 1, 50-55	4.1	24
65	Solid State NMR and Wide Angle X-ray Diffraction Studies of Supercritical Fluid CO ₂ -Treated Poly(ethylene terephthalate). <i>Macromolecules</i> , 1998 , 31, 9238-9246	5.5	23
64	Carbon-13 NMR spectra of macerals separated from individual coals. <i>Organic Geochemistry</i> , 1982 , 4, 79-84	3.1	22
63	CO ₂ Clustering of 1-Decanol and Methanol in Supercritical Fluids by ¹³ C Nuclear Spin Lattice Relaxation. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 2923-2928	3.4	21
62	Comparison of physical and chemical properties of maceral groups separated by density gradient centrifugation. <i>International Journal of Coal Geology</i> , 1985 , 5, 315-338	5.5	20
61	Solid-State NMR spectra and long, intra-dimer bonding in the pi-[TTF](2)(2+) (TTF = tetrathiafulvalene) dication. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 6622-9	2.8	19

60	Silica Xerogel Supported Cobalt Metal Fischer-Tropsch Catalysts for Syngas to Diesel Range Fuel Conversion. <i>Energy & Fuels</i> , 2004 , 18, 1519-1521	4.1	19
59	Carbon-13 nuclear relaxation measurements in nicotinamide adenine dinucleotide and adenosine monophosphate. <i>Journal of the American Chemical Society</i> , 1974 , 96, 2885-7	16.4	19
58	High resolution Chromatographic characterization of depolymerized coals of different rank: aliphatic and aromatic hydrocarbons. <i>Fuel</i> , 1992 , 71, 19-29	7.1	18
57	Cylindrical spinner and speed controller for magic angle spinning nuclear magnetic resonance. <i>Review of Scientific Instruments</i> , 1984 , 55, 516-520	1.7	18
56	The Effect of Coal Composition on Ignition and Flame Stability in Coaxial Oxy-Fuel Turbulent Diffusion Flames. <i>Energy & Fuels</i> , 2013 , 27, 4935-4945	4.1	17
55	Carbon-13 Chemical-Shift Tensors in Polycyclic Aromatic Compounds. 9.1 Biphenylene. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 8290-8295	2.8	17
54	Carbon-13 chemical shift tensors in aromatic compounds. 4. Substituted naphthalenes. <i>Journal of the American Chemical Society</i> , 1992 , 114, 2832-2836	16.4	17
53	Application of new ¹³ C n.m.r. techniques to the study of products from catalytic hydrodeoxygenation of SRC-II liquids. <i>Fuel</i> , 1984 , 63, 525-529	7.1	17
52	Modeling Light Gas and Tar Yields from Pyrolysis of Green River Oil Shale Demineralized Kerogen Using the Chemical Percolation Devolatilization Model. <i>Energy & Fuels</i> , 2015 , 29, 4921-4926	4.1	16
51	Study of the Evolution of Soot from Various Fuels. <i>Energy & Fuels</i> , 2005 , 19, 1804-1811	4.1	16
50	Dynamic nuclear polarization of nitrogen-15 in benzamide. <i>Solid State Nuclear Magnetic Resonance</i> , 1997 , 8, 129-37	3.1	15
49	Ring current effects in crystals. Evidence from ¹³ C chemical shift tensors for intermolecular shielding in 4,7-di-t-butylacenaphthene versus 4,7-di-t-butylacenaphthylene. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 2020-7	2.8	15
48	H and ¹⁵ N Dynamic Nuclear Polarization Studies of Carbazole. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 4413-4420	2.8	15
47	A study on the ring contraction of 5-diazo-1-methyluracil-6-methanolate and a convenient method for establishing the site of heterocyclic N-substitution. <i>Journal of Heterocyclic Chemistry</i> , 1974 , 11, 645-647	1.9	15
46	Carbon-13 NMR spectra of C-nucleosides. Showdomycin and pseudouridine. <i>Journal of Heterocyclic Chemistry</i> , 1973 , 10, 427-429	1.9	15
45	Solid state NMR investigation of silica aerogel supported Fischer-Tropsch catalysts. <i>Fuel Processing Technology</i> , 2007 , 88, 29-33	7.2	14
44	Structure determination of a new saponin from the plant <i>Alphitonia zizyphoides</i> by NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 1993 , 31, 472-480	2.1	14
43	The use of high-field carbon-13 NMR spectroscopy to characterize chiral centers in isopranes. <i>Magnetic Resonance in Chemistry</i> , 1986 , 24, 191-198	2.1	14

42	Modeling of Asphaltenes: Assessment of Sensitivity of ¹³ C Solid State NMR to Molecular Structure. <i>Energy & Fuels</i> , 2012 , 26, 2161-2167	4.1	13
41	Solid-state ¹³ C NMR investigations of 4,7-dihydro-1H-tricyclopenta[def,jkl,pqr]triphenylene (sumanene) and indeno[1,2,3-cd]fluoranthene: Buckminsterfullerene moieties. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 7934-41	3.6	13
40	Water Gas Shift Catalysis Using Iron Aerogels Doped with Palladium by the Gas-Phase Incorporation Method. <i>Energy & Fuels</i> , 2008 , 22, 1439-1443	4.1	13
39	The Study of Anthracene Aerosols by Solid-State NMR and ESR. <i>Energy & Fuels</i> , 2003 , 17, 738-743	4.1	13
38	Cluster Analysis of ¹³ C Chemical Shift Tensor Principal Values in Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 7468-7472	2.8	13
37	A High-Resolution 3D Separated-Local-Field Experiment by Means of Magic-Angle Turning. <i>Journal of Magnetic Resonance</i> , 1997 , 126, 120-6	3	12
36	Solid-state NMR spectra and long intradimer bonds in the pi-[TCNE] ₂₂ - dianion. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 7962-9	2.8	12
35	Determination of ¹³ C Chemical Shift Tensors in the Presence of Hydrogen Bonding and ¹⁴ N Quadrupolar Coupling: p-Aminosalicylic Acid, Isoniazid, and Pyrazinamide. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 11375-11379	2.8	12
34	¹⁵ N Chemical Shift Tensors of HMX. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 6352-6357	2.8	12
33	Solid-state ¹⁵ N NMR studies of tobacco leaves. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 2155-2157	5.1	11
32	Iron Aerogels Doped with Palladium as Water Gas Shift Catalysts for the Production of Hydrogen. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 1652-1657	3.9	10
31	Solid-State ¹³ C NMR Measurements in Methoxynaphthalenes: Determination of the Substituent Chemical Shift Effects in the Principal Values. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 9169-9175	2.8	10
30	¹⁵ N NMR Chemical Shift Tensors of Substituted Hexaazaisowurtzitanes: The Intermediates in the Synthesis of CL-20. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 2638-2644	2.8	10
29	Model Compound Study of the Pathways for Aromatic Hydrocarbon Formation in Soot. <i>Energy & Fuels</i> , 2007 , 21, 2584-2593	4.1	9
28	Carbon-13 Chemical-Shift Tensors in Polycyclic Aromatic Compounds: Fluoranthene and Decacyclene. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 6477-6482	2.8	9
27	The Use of Anisotropic ¹³ C Chemical Shifts To Study the Side-Chain Conformation of Polycrystalline 2-Methoxydibenzofuran. <i>Journal of the American Chemical Society</i> , 1995 , 117, 11984-11988	16.4	9
26	Fluid Structures of CO ₂ and CO ₂ -CH ₄ Mixture at Supercritical Fluid and Liquid Densities by Nuclear Spin Lattice Relaxation Measurements. <i>Magnetic Resonance in Chemistry</i> , 1996 , 34, 479-488	2.1	9
25	New solid state NMR techniques in coal analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 1984 , 3, 144-147	14.6	9

24	Carbon-13 NMR investigation of the protonation and quaternization of azoloazines with a bridgehead nitrogen. <i>Journal of Heterocyclic Chemistry</i> , 1976 , 13, 1057-1062	1.9	9
23	¹ H dynamic nuclear polarization in supercritical ethylene at 1.4 T. <i>Journal of Magnetic Resonance</i> , 2000 , 143, 233-9	3	8
22	¹³ C NMR Techniques for Structural Studies of Coals and Coal Chars 1992 , 215-254		8
21	¹³ C Chemical-shift tensors in an analogous series of heterosubstituted polycyclic aromatic compounds. <i>Magnetic Resonance in Chemistry</i> , 2001 , 39, 115-121	2.1	7
20	Improvements to the magic angle hopping experiment. <i>Solid State Nuclear Magnetic Resonance</i> , 1993 , 2, 235-43	3.1	7
19	Carbon-13 CP/MAS Study of Coal Macerals of Varying Rank. <i>ACS Symposium Series</i> , 1981 , 23-42	0.4	7
18	Carbon-13 NMR investigation of the structure of hydroxy-azoloazines with a bridgehead nitrogen. <i>Journal of Heterocyclic Chemistry</i> , 1977 , 14, 1403-1408	1.9	7
17	¹³ C chemical shielding anisotropy studied by variable-angle sample spinning. <i>Journal of Magnetic Resonance</i> , 1987 , 71, 476-479		6
16	Solid-state ¹³ C NMR investigations of cyclophanes: [2.2]paracyclophane and 1,8-dioxo[8](2,7)pyrenophane. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 5193-8	2.8	5
15	A novel dipolar dephasing method for the slow magic angle turning experiment. <i>Journal of Magnetic Resonance</i> , 2001 , 152, 7-13	3	5
14	Use of relaxation agent doping to shorten very long spin-lattice relaxation times in a magic-angle turning experiment. <i>Solid State Nuclear Magnetic Resonance</i> , 1995 , 5, 257-62	3.1	5
13	Synthetic Doped Amorphous Ferrihydrite for the Fischer-Tropsch Synthesis of Alternative Fuels. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 4515-4522	3.9	4
12	Solid-state ¹³ C NMR and quantum chemical investigation of metal diene complexes. <i>Magnetic Resonance in Chemistry</i> , 2007 , 45, 393-400	2.1	4
11	An efficient double-tuned ¹³ C/ ¹ H probe circuit for CP/MAS NMR and its importance in linewidths. <i>Journal of Magnetic Resonance</i> , 1987 , 71, 485-494		4
10	Computerized analysis of 2D INADEQUATE spectra to assign chemical shifts in aromatic compounds. <i>Magnetic Resonance in Chemistry</i> , 1995 , 33, 803-811	2.1	3
9	Solid state structure of (pentamethylcyclopentadienyl)(2,4-dimethylpentadienyl)iron, Fe(C ₅ Me ₅)(2,4-C ₇ H ₁₁), and its incorporation into silica aerogels. <i>Polyhedron</i> , 2016 , 116, 76-81	2.7	2
8	A high-resolution (¹³ C) 3D CSA-CSA-CSA correlation experiment by means of magic angle turning. <i>Journal of Magnetic Resonance</i> , 2000 , 145, 230-6	3	2
7	Modeling of the ¹⁵ N and ¹³ C Chemical Shift Tensors in Purine. <i>ACS Symposium Series</i> , 1999 , 162-176	0.4	2

6	Coal Structure from Solid State NMR 1996 ,	2
5	Measurement of ¹³ C Chemical-Shift Anisotropy in Coal. <i>Advances in Chemistry Series</i> , 1992 , 419-439	2
4	Glass and Crystal Formation in Binary Aromatic Mixtures: A Mechanism for Reducing Spin-Lattice Relaxation Times. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 18550-18553	1
3	Selective saturation and inversion of multiple resonances in high-resolution solid-state ¹³ C experiments using slow spinning CP/MAS and tailored DANTE pulse sequences. <i>Solid State Nuclear Magnetic Resonance</i> , 1992 , 1, 185-95	3.1 1
2	Dynamic nuclear polarization of organic compound doped with free radicals. <i>Acta Physica Sinica (overseas Edition)</i> , 1998 , 7, 106-114	
1	An Integrated Spectroscopic Approach to the Chemical Characterization of Pyrolysis Oils. <i>ACS Symposium Series</i> , 1988 , 189-202	0.4