

Jack H Freed

List of Publications by Year in descending order

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255
papers

16,279
citations

14124

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24511

114
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269
all docs

269
docs citations

269
times ranked

8874
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory and Least Squares Fitting of CW ESR Saturation Spectra Using the MOMD Model. <i>Applied Magnetic Resonance</i> , 2022, 53, 699-715.	0.6	1
2	Erratum for Thorsen et al., "Highly Basic Clusters in the Herpes Simplex Virus 1 Nuclear Egress Complex Drive Membrane Budding by Inducing Lipid Ordering". <i>MBio</i> , 2022, 13, e0367321.	1.8	0
3	Negatively charged residues in the membrane ordering activity of SARS-CoV-1 and -2 fusion peptides. <i>Biophysical Journal</i> , 2022, 121, 207-227.	0.2	9
4	The N-Terminal Domain of A β ₄₀ -Amyloid Fibril: The MOMD Perspective of its Dynamic Structure from NMR Lineshape Analysis. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1202-1211.	1.2	2
5	Structural Dynamics by NMR in the Solid State: II. The MOMD Perspective of the Dynamic Structure of Metal-Organic Frameworks Comprising Several Mobile Components. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2452-2465.	1.2	4
6	Membrane Binding Induces Distinct Structural Signatures in the Mouse Complexin-1C-Terminal Domain. <i>Journal of Molecular Biology</i> , 2022, , 167710.	2.0	4
7	Microsecond dynamics in proteins by two-dimensional ESR. II. Addressing computational challenges. <i>Journal of Chemical Physics</i> , 2021, 154, 084115.	1.2	0
8	SARS-CoV-2 Fusion Peptide has a Greater Membrane Perturbating Effect than SARS-CoV with Highly Specific Dependence on Ca ²⁺ . <i>Journal of Molecular Biology</i> , 2021, 433, 166946.	2.0	54
9	Extraction of Weak Spectroscopic Signals with High Fidelity: Examples from ESR. <i>Journal of Physical Chemistry A</i> , 2021, 125, 4480-4487.	1.1	6
10	Dph3 Enables Aerobic Diphthamide Biosynthesis by Donating One Iron Atom to Transform a [3Fe ^{4S}] to a [4Fe ^{4S}] Cluster in Dph1 ⁺ Dph2. <i>Journal of the American Chemical Society</i> , 2021, 143, 9314-9319.	6.6	7
11	Highly Basic Clusters in the Herpes Simplex Virus 1 Nuclear Egress Complex Drive Membrane Budding by Inducing Lipid Ordering. <i>MBio</i> , 2021, 12, e0154821.	1.8	17
12	Benchmark Test and Guidelines for DEER/PELDOR Experiments on Nitroxide-Labeled Biomolecules. <i>Journal of the American Chemical Society</i> , 2021, 143, 17875-17890.	6.6	124
13	Local ordering and dynamics in anisotropic media by magnetic resonance: from liquid crystals to proteins. <i>Liquid Crystals</i> , 2020, 47, 1926-1954.	0.9	4
14	Calcium Ions Directly Interact with the Ebola Virus Fusion Peptide To Promote Structure-Function Changes That Enhance Infection. <i>ACS Infectious Diseases</i> , 2020, 6, 250-260.	1.8	72
15	Engineered chemotaxis core signaling units indicate a constrained kinase-off state. <i>Science Signaling</i> , 2020, 13, .	1.6	10
16	Structural Dynamics by NMR in the Solid State: The Unified MOMD Perspective Applied to Organic Frameworks with Interlocked Molecules. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6225-6235.	1.2	4
17	Microsecond Exchange Processes Studied by Two-Dimensional ESR at 95 GHz. <i>Journal of the American Chemical Society</i> , 2020, 142, 21368-21381.	6.6	7
18	George K. Fraenkel: Electron Spin Resonance Pioneer. <i>ACS Symposium Series</i> , 2020, , 137-154.	0.5	0

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19	Conformational Dynamics in Extended RGD-Containing Peptides. <i>Biomacromolecules</i> , 2020, 21, 2786-2794.	2.6	7
20	Microsecond dynamics in proteins by two-dimensional ESR: Predictions. <i>Journal of Chemical Physics</i> , 2020, 152, 214112.	1.2	4
21	High-yield production in <i>E. coli</i> and characterization of full-length functional p13II protein from human T-cell leukemia virus type 1. <i>Protein Expression and Purification</i> , 2020, 173, 105659.	0.6	3
22	Ca ²⁺ Ions Promote Fusion of Middle East Respiratory Syndrome Coronavirus with Host Cells and Increase Infectivity. <i>Journal of Virology</i> , 2020, 94, .	1.5	93
23	The asymmetric function of Dph1&Dph2 heterodimer in diphthamide biosynthesis. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 777-782.	1.1	11
24	Insights into histidine kinase activation mechanisms from the monomeric blue light sensor EL346. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4963-4972.	3.3	19
25	Comment on "Distinct Populations in Spin-Label EPR Spectra from Nitroxides". <i>Journal of Physical Chemistry B</i> , 2019, 123, 2454-2456.	1.2	1
26	Singular Value Decomposition Method To Determine Distance Distributions in Pulsed Dipolar Electron Spin Resonance: II. Estimating Uncertainty. <i>Journal of Physical Chemistry A</i> , 2019, 123, 359-370.	1.1	32
27	MOMD Analysis of NMR Line Shapes from A β -Amyloid Fibrils: A New Tool for Characterizing Molecular Environments in Protein Aggregates. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4793-4801.	1.2	7
28	Structural basis for membrane anchoring and fusion regulation of the herpes simplex virus fusogen gB. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 416-424.	3.6	76
29	Organometallic and radical intermediates reveal mechanism of diphthamide biosynthesis. <i>Science</i> , 2018, 359, 1247-1250.	6.0	48
30	Cofactors are essential constituents of stable and seeding-active tau fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 13234-13239.	3.3	84
31	Site-Specific Incorporation of a Cu ²⁺ Spin Label into Proteins for Measuring Distances by Pulsed Dipolar Electron Spin Resonance Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9443-9451.	1.2	21
32	Open and Closed Form of Maltose Binding Protein in Its Native and Molten Globule State As Studied by Electron Paramagnetic Resonance Spectroscopy. <i>Biochemistry</i> , 2018, 57, 5507-5512.	1.2	24
33	Phenyl-Ring Dynamics in Amyloid Fibrils and Proteins: The Microscopic-Order-Macroscopic-Disorder Perspective. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8675-8684.	1.2	6
34	Protein dynamics in the solid-state from ² H NMR lineshape analysis. III. MOMD in the presence of Magic Angle Spinning. <i>Solid State Nuclear Magnetic Resonance</i> , 2018, 89, 35-44.	1.5	10
35	A facile approach for the in vitro assembly of multimeric membrane transport proteins. <i>ELife</i> , 2018, 7, .	2.8	16
36	Structure-Function Studies Link Class II Viral Fusogens with the Ancestral Gamete Fusion Protein HAP2. <i>Current Biology</i> , 2017, 27, 651-660.	1.8	78

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37	A New Wavelet Denoising Method for Experimental Time-Domain Signals: Pulsed Dipolar Electron Spin Resonance. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2452-2465.	1.1	49
38	Stability and Conformation of a Chemoreceptor HAMP Domain Chimera Correlates with Signaling Properties. <i>Biophysical Journal</i> , 2017, 112, 1383-1395.	0.2	8
39	Key features of an Hsp70 chaperone allosteric landscape revealed by ion-mobility native mass spectrometry and double electron-electron resonance. <i>Journal of Biological Chemistry</i> , 2017, 292, 8773-8785.	1.6	51
40	The Molten Globule State of Maltose Binding Protein: Structural Characterization by EPR Spectroscopy. <i>Biophysical Journal</i> , 2017, 112, 485a-486a.	0.2	1
41	Substrate-Dependent Cleavage Site Selection by Unconventional Radical <i>S</i> -Adenosylmethionine Enzymes in Diphthamide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2017, 139, 5680-5683.	6.6	19
42	Signature of an aggregation-prone conformation of tau. <i>Scientific Reports</i> , 2017, 7, 44739.	1.6	69
43	Synthesis and Solution-Phase Characterization of Sulfonated Oligothioetheramides. <i>Macromolecules</i> , 2017, 50, 8731-8738.	2.2	12
44	Mechanistic Insight into the Photocontrolled Cationic Polymerization of Vinyl Ethers. <i>Journal of the American Chemical Society</i> , 2017, 139, 15530-15538.	6.6	120
45	The SARS-CoV Fusion Peptide Forms an Extended Bipartite Fusion Platform that Perturbs Membrane Order in a Calcium-Dependent Manner. <i>Journal of Molecular Biology</i> , 2017, 429, 3875-3892.	2.0	170
46	Singular Value Decomposition Method to Determine Distance Distributions in Pulsed Dipolar Electron Spin Resonance. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5648-5655.	2.1	47
47	Unique Structural Features of Membrane-Bound C-Terminal Domain Motifs Modulate Complexin Inhibitory Function. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 154.	1.4	30
48	Conformational Response of Influenza A M2 Transmembrane Domain to Amantadine Drug Binding at Low pH (pH 5.5). <i>Frontiers in Physiology</i> , 2016, 7, 317.	1.3	6
49	Organometallic Complex Formed by an Unconventional Radical <i>S</i> -Adenosylmethionine Enzyme. <i>Journal of the American Chemical Society</i> , 2016, 138, 9755-9758.	6.6	21
50	A New Wavelet Denoising Method for Selecting Decomposition Levels and Noise Thresholds. <i>IEEE Access</i> , 2016, 4, 3862-3877.	2.6	170
51	Bacterial Energy Sensor Aer Modulates the Activity of the Chemotaxis Kinase CheA Based on the Redox State of the Flavin Cofactor. <i>Journal of Biological Chemistry</i> , 2016, 291, 25809-25814.	1.6	22
52	Local Ordering at Mobile Sites in Proteins from Nuclear Magnetic Resonance Relaxation: The Role of Site Symmetry. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2886-2898.	1.2	16
53	Mechanism of influenza A M2 transmembrane domain assembly in lipid membranes. <i>Scientific Reports</i> , 2015, 5, 11757.	1.6	55
54	Protein Dynamics in the Solid State from 2H NMR Line Shape Analysis. II. MOMD Applied to ¹³ C and ¹⁵ N CD3 Probes. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14022-14032.	1.2	11

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55	The Interaction between Influenza HA Fusion Peptide and Transmembrane Domain Affects Membrane Structure. <i>Biophysical Journal</i> , 2015, 109, 2523-2536.	0.2	34
56	Signal transduction in light-activated oxygen-voltage receptors lacking the adduct-forming cysteine residue. <i>Nature Communications</i> , 2015, 6, 10079.	5.8	86
57	Pulsed Dipolar Spectroscopy Reveals That Tyrosyl Radicals Are Generated in Both Monomers of the Cyclooxygenase-2 Dimer. <i>Biochemistry</i> , 2015, 54, 7309-7312.	1.2	9
58	Assembly States of FliM and FliG within the Flagellar Switch Complex. <i>Journal of Molecular Biology</i> , 2015, 427, 867-886.	2.0	35
59	Bacterial chemoreceptor dynamics correlate with activity state and are coupled over long distances. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2455-2460.	3.3	37
60	Protein Dynamics in the Solid State from ² H NMR Line Shape Analysis: A Consistent Perspective. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2857-2868.	1.2	25
61	Transport domain unlocking sets the uptake rate of an aspartate transporter. <i>Nature</i> , 2015, 518, 68-73.	13.7	144
62	Pulse Dipolar ESR of Doubly Labeled Mini TAR DNA and Its Annealing to Mini TAR RNA. <i>Biophysical Journal</i> , 2015, 108, 893-902.	0.2	6
63	Preformed Soluble Chemoreceptor Trimers That Mimic Cellular Assembly States and Activate CheA Autophosphorylation. <i>Biochemistry</i> , 2015, 54, 3454-3468.	1.2	14
64	Interaction of Spin-Labeled Lipid Membranes with Transition Metal Ions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13330-13346.	1.2	10
65	Focus: Two-dimensional electron-electron double resonance and molecular motions: The challenge of higher frequencies. <i>Journal of Chemical Physics</i> , 2015, 142, 212302.	1.2	14
66	Dimer Intermediate in the Assembly of Influenza A M2 Transmembrane Domain in Lipid Membranes. <i>FASEB Journal</i> , 2015, 29, 714.6.	0.2	0
67	Dph3 Is an Electron Donor for Dph1-Dph2 in the First Step of Eukaryotic Diphthamide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2014, 136, 1754-1757.	6.6	59
68	Aggregation propensities of superoxide dismutase G93 hotspot mutants mirror ALS clinical phenotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4568-76.	3.3	64
69	Tau Binds to Lipid Membrane Surfaces via Short Amphipathic Helices Located in Its Microtubule-Binding Repeats. <i>Biophysical Journal</i> , 2014, 107, 1441-1452.	0.2	97
70	Copper-Based Pulsed Dipolar ESR Spectroscopy as a Probe of Protein Conformation Linked to Disease States. <i>Biophysical Journal</i> , 2014, 107, 1669-1674.	0.2	35
71	HIV gp41 Fusion Peptide Increases Membrane Ordering in a Cholesterol-Dependent Fashion. <i>Biophysical Journal</i> , 2014, 106, 172-181.	0.2	57
72	Defining Protein Complexes that Mediate Bacterial Chemotaxis by Pulsed Dipolar ESR Spectroscopy. <i>Biophysical Journal</i> , 2014, 106, 685a.	0.2	1

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73	Influenza Fusion Peptide and Transmembrane Domain Interaction Induces Distinct Domains in Lipid Bilayers. <i>Biophysical Journal</i> , 2014, 106, 707a.	0.2	3
74	Conformational ensemble of the sodium-coupled aspartate transporter. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 215-221.	3.6	121
75	Pulse Dipolar Electron Spin Resonance: Distance Measurements. <i>Structure and Bonding</i> , 2013, , 1-82.	1.0	31
76	Improved Sensitivity for Long-Distance Measurements in Biomolecules: Five-Pulse Double Electronâ€“Electron Resonance. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 170-175.	2.1	124
77	HAMP Domain Conformers That Propagate Opposite Signals in Bacterial Chemoreceptors. <i>PLoS Biology</i> , 2013, 11, e1001479.	2.6	55
78	Membrane Fluidity. , 2013, , 1440-1446.		4
79	Conformational Distributions and Hydrogen Bonding in Gel and Frozen Lipid Bilayers: A High Frequency Spin-Label ESR Study. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6694-6706.	1.2	34
80	Self-Association of the Histidine Kinase CheA as Studied by Pulsed Dipolar ESR Spectroscopy. <i>Biophysical Journal</i> , 2012, 102, 2192-2201.	0.2	22
81	Locating a Lipid at the Portal to the Lipoxygenase Active Site. <i>Biophysical Journal</i> , 2012, 103, 2134-2144.	0.2	54
82	Dynamics and ordering of lipid spin-labels along the coexistence curve of two membrane phases: An ESR study. <i>Chemistry and Physics of Lipids</i> , 2012, 165, 348-361.	1.5	22
83	Effect of freezing conditions on distances and their distributions derived from Double Electron Resonance (DEER): A study of doubly-spin-labeled T4 lysozyme. <i>Journal of Magnetic Resonance</i> , 2012, 216, 69-77.	1.2	93
84	Entrance to a lipoxygenase substrate cavity is defined. <i>FASEB Journal</i> , 2012, 26, 756.12.	0.2	0
85	Mechanistic understanding of <i>Pyrococcus horikoshii</i> Dph2, a [4Feâ€“4S] enzyme required for diphthamidebiosynthesis. <i>Molecular BioSystems</i> , 2011, 7, 74-81.	2.9	37
86	2D-ELDOR Study of Heterogeneity and Domain Structure Changes in Plasma Membrane Vesicles upon Cross-Linking of Receptors. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10462-10469.	1.2	12
87	Methyl Dynamics of a Ca ²⁺ â€“Calmodulinâ€“Peptide Complex from NMR/SRLS. <i>Journal of Physical Chemistry B</i> , 2011, 115, 354-365.	1.2	15
88	Two Conserved Residues Are Important for Inducing Highly Ordered Membrane Domains by the Transmembrane Domain of Influenza Hemagglutinin. <i>Biophysical Journal</i> , 2011, 100, 90-97.	0.2	29
89	A new Lanczos-based algorithm for simulating high-frequency two-dimensional electron spin resonance spectra. <i>Journal of Chemical Physics</i> , 2011, 134, 034112.	1.2	3
90	Variable Coupling Scheme for High-Frequency Electron Spin Resonance Resonators Using Asymmetric Meshes. <i>Applied Magnetic Resonance</i> , 2010, 37, 819-832.	0.6	0

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91	Structural dynamics of bio-macromolecules by NMR: The slowly relaxing local structure approach. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2010, 56, 360-405.	3.9	86
92	Diphthamide biosynthesis requires an organic radical generated by an iron-sulphur enzyme. <i>Nature</i> , 2010, 465, 891-896.	13.7	180
93	The Lipid-binding Domain of Wild Type and Mutant α -Synuclein. <i>Journal of Biological Chemistry</i> , 2010, 285, 28261-28274.	1.6	132
94	Structure of the Ternary Complex Formed by a Chemotaxis Receptor Signaling Domain, the CheA Histidine Kinase, and the Coupling Protein CheW As Determined by Pulsed Dipolar ESR Spectroscopy. <i>Biochemistry</i> , 2010, 49, 3824-3841.	1.2	73
95	Multifrequency Electron Spin Resonance Study of the Dynamics of Spin Labeled T4 Lysozyme. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5503-5521.	1.2	129
96	Fusion Peptide from Influenza Hemagglutinin Increases Membrane Surface Order: An Electron-Spin Resonance Study. <i>Biophysical Journal</i> , 2009, 96, 4925-4934.	0.2	54
97	Multifrequency Electron Spin Resonance Spectra of a Spin-Labeled Protein Calculated from Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2009, 131, 2597-2605.	6.6	73
98	Determination of Tie-Line Fields for Coexisting Lipid Phases: An ESR Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3957-3971.	1.2	39
99	Multifrequency ESR study of spin-labeled molecules in inclusion compounds with cyclodextrins. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6676.	1.3	36
100	Membrane-Bound α -Synuclein Forms an Extended Helix: Long-Distance Pulsed ESR Measurements Using Vesicles, Bicelles, and Rodlike Micelles. <i>Journal of the American Chemical Society</i> , 2008, 130, 12856-12857.	6.6	253
101	Conformational Motion of the ABC Transporter MsbA Induced by ATP Hydrolysis. <i>PLoS Biology</i> , 2007, 5, e271.	2.6	131
102	Characterizing the structure and dynamics of folded oligomers: Pulsed ESR studies of peptoid helices. <i>Chemical Communications</i> , 2007, , 377-379.	2.2	34
103	Dynamic Molecular Structure and Phase Diagram of DPPC-Cholesterol Binary Mixtures: A 2D-ELDOR Study. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11260-11270.	1.2	58
104	Measuring Distances by Pulsed Dipolar ESR Spectroscopy: Spin-Labeled Histidine Kinases. <i>Methods in Enzymology</i> , 2007, 423, 52-116.	0.4	138
105	A Many-Body Stochastic Approach to Rotational Motions in Liquids. <i>Advances in Chemical Physics</i> , 2007, , 89-206.	0.3	59
106	2D-ELDOR using full χ^2 fitting and absorption lineshapes. <i>Journal of Magnetic Resonance</i> , 2007, 188, 231-245.	1.2	6
107	Coexisting Domains in the Plasma Membranes of Live Cells Characterized by Spin-Label ESR Spectroscopy. <i>Biophysical Journal</i> , 2006, 90, 4452-4465.	0.2	128
108	ESR Microscopy and Nanoscopy with δ -Induction-Detection. <i>Israel Journal of Chemistry</i> , 2006, 46, 423-438.	1.0	30

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109	Protein Dynamics from NMR: The Slowly Relaxing Local Structure Analysis Compared with Model-Free Analysis. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8366-8396.	1.1	82
110	Inter-Helix Distances in Lysophospholipid Micelle-Bound α -Synuclein from Pulsed ESR Measurements. <i>Journal of the American Chemical Society</i> , 2006, 128, 10004-10005.	6.6	89
111	Reconstruction of the chemotaxis receptor kinase assembly. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 400-407.	3.6	257
112	Electron spin resonance microscopy applied to the study of controlled drug release. <i>Journal of Controlled Release</i> , 2006, 111, 174-184.	4.8	20
113	ESR and Molecular Dynamics. , 2005, , 239-268.		23
114	Maximum entropy: A complement to Tikhonov regularization for determination of pair distance distributions by pulsed ESR. <i>Journal of Magnetic Resonance</i> , 2005, 177, 184-196.	1.2	142
115	High-frequency ESR at ACERT. <i>Magnetic Resonance in Chemistry</i> , 2005, 43, S256-S266.	1.1	64
116	The determination of pair distance distributions by pulsed ESR using Tikhonov regularization. <i>Journal of Magnetic Resonance</i> , 2005, 172, 279-295.	1.2	364
117	EPR Distance Measurements Support a Model for Long-Range Radical Initiation in <i>E. coli</i> Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2005, 127, 15014-15015.	6.6	102
118	A three-dimensional electron spin resonance microscope. <i>Review of Scientific Instruments</i> , 2004, 75, 3050-3061.	0.6	22
119	A Multifrequency Electron Spin Resonance Study of T4 Lysozyme Dynamics Using the Slowly Relaxing Local Structure Model. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17649-17659.	1.2	66
120	Spin-Labeled Gramicidin A: Channel Formation and Dissociation. <i>Biophysical Journal</i> , 2004, 87, 3504-3517.	0.2	52
121	Dynamic Molecular Structure of DPPC-DLPC-Cholesterol Ternary Lipid System by Spin-Label Electron Spin Resonance. <i>Biophysical Journal</i> , 2004, 87, 2483-2496.	0.2	53
122	Pulsed three-dimensional electron spin resonance microscopy. <i>Applied Physics Letters</i> , 2004, 85, 5430-5432.	1.5	27
123	Measurement of Large Distances in Biomolecules Using Double-Quantum Filtered Refocused Electron Spin Echoes. <i>Journal of the American Chemical Society</i> , 2004, 126, 7746-7747.	6.6	96
124	High resolution electron spin resonance microscopy. <i>Journal of Magnetic Resonance</i> , 2003, 165, 116-127.	1.2	65
125	Mode-Coupling SRLS versus Mode-Decoupled Model-Free $N^{\alpha}H$ Bond Dynamics: Mode-Mixing and Renormalization. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9898-9904.	1.2	28
126	Mode-Coupling Analysis of ^{15}N CSA \sim ^{15}N - 1H Dipolar Cross-Correlation in Proteins. Rhombic Potentials at the $N^{\alpha}H$ Bond. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9883-9897.	1.2	22

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127	Lipid-Gramicidin Interactions: Dynamic Structure of the Boundary Lipid by 2D-ELDOR. <i>Biophysical Journal</i> , 2003, 84, 3364-3378.	0.2	32
128	Ordered and Disordered Phases Coexist in Plasma Membrane Vesicles of RBL-2H3 Mast Cells. An ESR Study. <i>Biophysical Journal</i> , 2003, 85, 1278-1288.	0.2	83
129	Hydration, Structure, and Molecular Interactions in the Headgroup Region of Dioleoylphosphatidylcholine Bilayers: An Electron Spin Resonance Study. <i>Biophysical Journal</i> , 2003, 85, 4023-4040.	0.2	81
130	A 2D-ELDOR Study of the Liquid Ordered Phase in Multilamellar Vesicle Membranes. <i>Biophysical Journal</i> , 2003, 84, 2619-2633.	0.2	41
131	Phase relaxation in a many-body system of diffusing spins: Slow motional limit. <i>Journal of Chemical Physics</i> , 2002, 117, 282-287.	1.2	3
132	Protein Structure Determination Using Long-Distance Constraints from Double-Quantum Coherence ESR: A Study of T4 Lysozyme. <i>Journal of the American Chemical Society</i> , 2002, 124, 5304-5314.	6.6	268
133	A Structural Mode-Coupling Approach to ^{15}N NMR Relaxation in Proteins. <i>Journal of the American Chemical Society</i> , 2001, 123, 3055-3063.	6.6	146
134	Direct-product formalism for calculating magnetic resonance signals in many-body systems of interacting spins. <i>Journal of Chemical Physics</i> , 2001, 115, 2401-2415.	1.2	15
135	A Multifrequency ESR Study of the Complex Dynamics of Membranes. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11053-11056.	1.2	62
136	A many-body analysis of the effects of the matrix protons and their diffusional motion on electron spin resonance line shapes and electron spin echoes. <i>Journal of Chemical Physics</i> , 2001, 115, 2416-2429.	1.2	12
137	NEWTECHNOLOGIES IN ELECTRON SPIN RESONANCE. <i>Annual Review of Physical Chemistry</i> , 2000, 51, 655-689.	4.8	185
138	Dipolar relaxation in a many-body system of spins of $1/2$. <i>Journal of Chemical Physics</i> , 2000, 112, 1425-1443.	1.2	21
139	Spin relaxation by dipolar coupling: From motional narrowing to the rigid limit. <i>Journal of Chemical Physics</i> , 2000, 112, 1413-1424.	1.2	32
140	An Electron Spin Resonance Study of DNA Dynamics Using the Slowly Relaxing Local Structure Model. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5372-5381.	1.2	60
141	Multiple-quantum ESR and distance measurements. <i>Chemical Physics Letters</i> , 1999, 313, 145-154.	1.2	228
142	Electron Spin Resonance Characterization of Liquid Ordered Phase of Detergent-Resistant Membranes from RBL-2H3 Cells. <i>Biophysical Journal</i> , 1999, 77, 925-933.	0.2	118
143	Electron-Spin Resonance Study of Aggregation of Gramicidin in Dipalmitoylphosphatidylcholine Bilayers and Hydrophobic Mismatch. <i>Biophysical Journal</i> , 1999, 76, 264-280.	0.2	65
144	A Multifrequency Electron Spin Resonance Study of T4 Lysozyme Dynamics. <i>Biophysical Journal</i> , 1999, 76, 3298-3306.	0.2	132

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145	An Assessment of the Applicability of Multifrequency ESR to Study the Complex Dynamics of Biomolecules. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6384-6396.	1.2	171
146	An EPR Study of Some Highly Distorted Tetrahedral Manganese(II) Complexes at High Magnetic Fields. <i>Inorganic Chemistry</i> , 1999, 38, 5384-5388.	1.9	54
147	Polarity Profiles in Oriented and Dispersed Phosphatidylcholine Bilayers Are Different: An Electron Spin Resonance Study. <i>Biophysical Journal</i> , 1998, 74, 910-917.	0.2	48
148	Dynamics and Ordering in Mixed Model Membranes of Dimyristoylphosphatidylcholine and Dimyristoylphosphatidylserine: A 250-GHz Electron Spin Resonance Study Using Cholestane. <i>Biophysical Journal</i> , 1998, 75, 2532-2546.	0.2	65
149	Multi-frequency EPR determination of zero field splitting of high spin species in liquids: Gd(III) chelates in water. <i>Molecular Physics</i> , 1998, 95, 1325-1332.	0.8	47
150	A "shunt-Fabry" Perot resonator for high-frequency electron spin resonance utilizing a variable coupling scheme. <i>Review of Scientific Instruments</i> , 1998, 69, 3022-3027.	0.6	27
151	A 250 GHz ESR study of o-terphenyl: Dynamic cage effects above T _c . <i>Journal of Chemical Physics</i> , 1997, 106, 9996-10015.	1.2	73
152	Aqueous sample holders for high-frequency electron spin resonance. <i>Review of Scientific Instruments</i> , 1997, 68, 2838-2846.	0.6	52
153	Two-Dimensional Electron Spin Resonance and Slow Motions. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7998-8008.	1.1	57
154	Chain Dynamics and the Simulation of Electron Spin Resonance Spectra from Oriented Phospholipid Membranes. <i>Journal of Physical Chemistry B</i> , 1997, 101, 8782-8789.	1.2	65
155	Theory of double quantum two-dimensional electron spin resonance with application to distance measurements. <i>Journal of Chemical Physics</i> , 1997, 107, 1317-1340.	1.2	95
156	Multifrequency Two-Dimensional Fourier Transform ESR: An X/Ku Band Spectrometer. <i>Journal of Magnetic Resonance</i> , 1997, 127, 155-167.	1.2	115
157	Rotational Diffusion and Order Parameters of a Liquid Crystalline Polymer Studied by ESR: Molecular Weight Dependence. <i>The Journal of Physical Chemistry</i> , 1996, 100, 15867-15872.	2.9	16
158	Rotational dynamics of axially symmetric solutes in isotropic solvents. II. The stochastic model. <i>Journal of Chemical Physics</i> , 1996, 104, 1090-1104.	1.2	31
159	Millimeter Wave Electron Spin Resonance Using Quasioptical Techniques. <i>Advances in Magnetic and Optical Resonance</i> , 1996, , 253-323.	1.7	36
160	Nonlinear-Least-Squares Analysis of Slow-Motion EPR Spectra in One and Two Dimensions Using a Modified Levenberg-Marquardt Algorithm. <i>Journal of Magnetic Resonance Series A</i> , 1996, 120, 155-189.	1.6	826
161	Studies of spin relaxation and molecular dynamics in liquid crystals by two-dimensional Fourier transform electron spin resonance. II. Perdeuterated tempone in butoxy benzylidene octylaniline and dynamic cage effects. <i>Journal of Chemical Physics</i> , 1996, 105, 5773-5791.	1.2	28
162	Studies of spin relaxation and molecular dynamics in liquid crystals by two-dimensional Fourier transform electron spin resonance. I. Cholestane in butoxy benzylidene octylaniline and dynamic cage effects. <i>Journal of Chemical Physics</i> , 1996, 105, 5753-5772.	1.2	34

#	ARTICLE	IF	CITATIONS
163	Farâ€infrared electronâ€paramagneticâ€resonance spectrometer utilizing a quasioptical reflection bridge. Review of Scientific Instruments, 1996, 67, 2502-2513.	0.6	56
164	Translational Diffusion in Polydisperse Polymer Samples Studied by Dynamic Imaging of Diffusion ESR. The Journal of Physical Chemistry, 1996, 100, 15856-15866.	2.9	15
165	Molecular Dynamics of a Liquid Crystalline Polymer Studied by Two-Dimensional Fourier Transform and CW ESR. The Journal of Physical Chemistry, 1996, 100, 15873-15885.	2.9	35
166	Nuclear modulation effects in $\tilde{\nu}^2 + 1$ â€™â€™ electron spinâ€echo correlation spectroscopy. Journal of Chemical Physics, 1995, 102, 8746-8762.	1.2	17
167	Site selective electron paramagnetic resonance study of photoexcited chromium doped forsterite. Journal of Chemical Physics, 1995, 103, 5315-5325.	1.2	3
168	Rotational dynamics of axially symmetric solutes in isotropic liquids. I. A collective cage description from molecular dynamics simulations. Journal of Chemical Physics, 1995, 102, 8094-8106.	1.2	29
169	Slow Motional ESR in Complex Fluids: The Slowly Relaxing Local Structure Model of Solvent Cage Effects. The Journal of Physical Chemistry, 1995, 99, 10995-11006.	2.9	176
170	9.6 GHz and 34 GHz electron paramagnetic resonance studies of chromiumâ€doped forsterite. Journal of Chemical Physics, 1994, 101, 3538-3548.	1.2	32
171	Two-dimensional Fourier-transform electron spin resonance in complex fluids. Chemical Physics Letters, 1994, 221, 397-406.	1.2	21
172	Theory of twoâ€dimensional Fourier transform electron spin resonance for ordered and viscous fluids. Journal of Chemical Physics, 1994, 101, 5529-5558.	1.2	50
173	A twoâ€dimensional Fourier transform electronâ€spin resonance (ESR) study of nuclear modulation and spin relaxation in irradiated malonic acid. Journal of Chemical Physics, 1993, 98, 3665-3689.	1.2	44
174	Critical fluctuations and molecular dynamics at liquidâ€crystalline phase transitions. II. Electron spin resonance experiments. Journal of Chemical Physics, 1992, 96, 3912-3938.	1.2	16
175	Critical fluctuations and molecular dynamics at liquidâ€crystalline phase transitions. I. Theoretical aspects of the nematicâ€smecticâ€transition. Journal of Chemical Physics, 1992, 96, 3901-3911.	1.2	13
176	Fourier transform electron spin resonance imaging. Chemical Physics Letters, 1991, 184, 25-33.	1.2	24
177	Spatially resolved two-dimensional Fourier transform electron spin resonance. Chemical Physics Letters, 1991, 184, 34-40.	1.2	14
178	Theory of two-dimensional ESR with nuclear modulation. Journal of Magnetic Resonance, 1990, 89, 60-93.	0.5	8
179	Two-dimensional Fourier transform ESR in the slow-motional and rigid limits: 2D-ELDOR. Chemical Physics Letters, 1990, 175, 453-460.	1.2	28
180	Application of Lanczos and conjugate gradient methods to a class of computational problems in physics. Computers in Physics, 1989, 3, 61.	0.6	5

#	ARTICLE	IF	CITATIONS
181	A theoretical model of phospholipid dynamics in membranes. <i>Journal of Chemical Physics</i> , 1989, 91, 5707-5721.	1.2	58
182	Heisenberg spin exchange and molecular diffusion in liquid crystals. <i>Journal of Chemical Physics</i> , 1989, 91, 6887-6905.	1.2	49
183	Two-dimensional electron-electron double resonance and electron spin-echo study of solute dynamics in smectics. <i>Journal of Chemical Physics</i> , 1989, 90, 5764-5786.	1.2	43
184	Calculating Slow Motional Magnetic Resonance Spectra. <i>Biological Magnetic Resonance</i> , 1989, , 1-76.	0.4	179
185	ELECTRON PARAMAGNETIC RESONANCE AT 1 MILLIMETER WAVELENGTHS. , 1989, , 307-340.		27
186	Two-dimensional Fourier transform ESR correlation spectroscopy. <i>Journal of Chemical Physics</i> , 1988, 88, 4678-4693.	1.2	102
187	E.S.R. and D.S.C. investigations of phase transitions in polymorphic 4-alkoxybenzylidene- <i>N,N</i> -alkylanilines. <i>Liquid Crystals</i> , 1988, 3, 957-976.	0.9	24
188	1-mm wave ESR spectrometer. <i>Review of Scientific Instruments</i> , 1988, 59, 1345-1351.	0.6	120
189	Calculation of ESR spectra and related Fokker-Planck forms by the use of the Lanczos algorithm. II. Criteria for truncation of basis sets and recursive steps utilizing conjugate gradients. <i>Journal of Chemical Physics</i> , 1987, 86, 647-661.	1.2	46
190	Two-dimensional Fourier transform ESR spectroscopy. <i>Journal of Chemical Physics</i> , 1986, 85, 5375-5377.	1.2	54
191	Surface-suppressed electron resonance spectroscopies. <i>Journal of Chemical Physics</i> , 1986, 84, 1886-1900.	1.2	14
192	Electron spin resonance studies of lipid-gramicidin interactions utilizing oriented multibilayers. <i>The Journal of Physical Chemistry</i> , 1985, 89, 350-360.	2.9	42
193	Electron spin resonance studies on ordering and rotational diffusion in oriented phosphatidylcholine multilayers: evidence for a new chain-ordering transition. <i>The Journal of Physical Chemistry</i> , 1984, 88, 6633-6644.	2.9	61
194	Two-dimensional electron spin echo spectroscopy and slow motions. <i>Journal of Chemical Physics</i> , 1984, 81, 37-48.	1.2	132
195	Analysis of protein-lipid interactions based on model simulations of electron spin resonance spectra. <i>The Journal of Physical Chemistry</i> , 1984, 88, 3454-3465.	2.9	187
196	Analysis of slow-motional electron spin resonance spectra in smectic phases in terms of molecular configuration, intermolecular interactions, and dynamics. <i>The Journal of Physical Chemistry</i> , 1984, 88, 4995-5004.	2.9	82
197	Transverse Viscous Forces in Carr Walls and Possible Dynamic Consequences. <i>Molecular Crystals and Liquid Crystals</i> , 1983, 101, 301-313.	0.9	4
198	On cooperative modes of reorientation in liquid crystals. <i>Journal of Chemical Physics</i> , 1983, 79, 3077-3089.	1.2	22

#	ARTICLE	IF	CITATIONS
199	Multipulse sequences in electron spin echoes. Review of Scientific Instruments, 1983, 54, 1416-1417.	0.6	12
200	Electrohydrodynamic instabilities observed in a nematic phase under oblique boundary conditions. Journal of Chemical Physics, 1982, 76, 6095-6119.	1.2	13
201	A quantum stochastic Fokker-Planck theory for adiabatic processes in condensed phases. Journal of Chemical Physics, 1982, 76, 6133-6149.	1.2	7
202	Electron spin relaxation and molecular dynamics in liquids. II. Density dependence. Journal of Chemical Physics, 1982, 77, 3360-3375.	1.2	35
203	A quantum stochastic theory for nonadiabatic processes in condensed phases and on surfaces. Journal of Chemical Physics, 1982, 76, 6150-6169.	1.2	13
204	Electron spin relaxation and molecular dynamics in liquids. I. Solvent dependence. Journal of Chemical Physics, 1982, 77, 3344-3359.	1.2	50
205	Electron spin relaxation and ordering in smectic and supercooled nematic liquid crystals. Journal of Chemical Physics, 1982, 77, 3915-3938.	1.2	153
206	Analysis of electron spin echoes by spectral representation of the stochastic Liouville equation. Journal of Chemical Physics, 1982, 77, 5410-5425.	1.2	100
207	Rotational jumps of the tyrosine side chain in crystalline enkephalin. Hydrogen-2 NMR line shapes for aromatic ring motions in solids. Journal of the American Chemical Society, 1981, 103, 7707-7710.	6.6	132
208	Classical time-correlation functions and the Lanczos algorithm. Journal of Chemical Physics, 1981, 75, 3157-3159.	1.2	33
209	Calculation of ESR spectra and related Fokker-Planck forms by the use of the Lanczos algorithm. Journal of Chemical Physics, 1981, 74, 3757-3773.	1.2	248
210	ESR studies of low water content 1,2-dipalmitoyl-sn-glycero-3-phosphocholine in oriented multilayers. 1. Evidence for long-range cooperative chain distortions. The Journal of Physical Chemistry, 1980, 84, 3281-3295.	2.9	30
211	Spin echoes for diffusion in bounded, heterogeneous media: A numerical study. Journal of Chemical Physics, 1980, 72, 1285-1292.	1.2	50
212	Is spin aligned hydrogen a Bose gas?. Journal of Chemical Physics, 1980, 72, 1414-1415.	1.2	31
213	Diffusion-controlled kinetics of protein domain coalescence: Effects of orientation, interdomain forces and hydration. Journal of Chemical Physics, 1980, 73, 5092-5106.	1.2	13
214	Direct determination of rotational correlation time by electron spin echoes. Journal of Chemical Physics, 1980, 73, 3502-3503.	1.2	42
215	Efficient computation of magnetic resonance spectra and related correlation functions from stochastic Liouville equations. The Journal of Physical Chemistry, 1980, 84, 2837-2840.	2.9	77
216	Stochastic modeling of generalized Fokker-Planck equations. I.. Journal of Chemical Physics, 1980, 72, 550-566.	1.2	36

#	ARTICLE	IF	CITATIONS
217	Electron spin resonance studies of anisotropic ordering, spin relaxation, and slow tumbling in liquid crystalline solvents. 4. Cholestane motions and surface anchoring in smectics. The Journal of Physical Chemistry, 1980, 84, 2459-2472.	2.9	37
218	The variational method and the stochastic Liouville equation. III. Infinite elements for CIDN(E)P. Journal of Chemical Physics, 1979, 71, 744-749.	1.2	7
219	The variational method and the stochastic Liouville equation. I. A finite element solution to the	1.2	19
220	The variational method and the stochastic Liouville equation. II. ESR spectral simulation via finite elements. Journal of Chemical Physics, 1979, 71, 113-118.	1.2	12
221	Theory of chemically induced dynamic spin polarization. IV. Low field effects. Journal of Chemical Physics, 1979, 70, 1359-1370.	1.2	31
222	Slow motional NMR lineshapes for very anisotropic diffusion: I = 1 nuclei. Chemical Physics Letters, 1979, 64, 311-316.	1.2	32
223	Electron spin resonance studies of anisotropic ordering, spin relaxation, and slow tumbling in liquid crystalline solvents. 3. Smectics. The Journal of Physical Chemistry, 1979, 83, 379-401.	2.9	150
224	Chemically induced dynamic spin polarization in two dimensional systems: Theoretical predictions. Journal of Chemical Physics, 1979, 71, 3861-3879.	1.2	18
225	Dynamic effects of pair correlation functions on spin relaxation by translational diffusion in liquids. II. Finite jumps and independent T1 processes. Journal of Chemical Physics, 1978, 68, 4034-4037.	1.2	424
226	Stochastic molecular theory of spin relaxation for liquid crystals. Journal of Chemical Physics, 1977, 66, 4183-4199.	1.2	346
227	ESR Studies of Spin Probes in Anisotropic Media. ACS Symposium Series, 1976, , 1-15.	0.5	4
228	A comparison of generalized cumulant and projection operator methods in spin relaxation theory. Journal of Chemical Physics, 1975, 62, 4687-4696.	1.2	111
229	Theory of chemically induced dynamic electron polarization. III. Initial triplet polarizations. Journal of Chemical Physics, 1975, 62, 1706-1711.	1.2	82
230	An ESR and ENDOR study of spin relaxation of semiquinones in liquid solution. Journal of Chemical Physics, 1975, 63, 165-199.	1.2	66
231	Generalized Einstein relations for rotational and translational diffusion of molecules including spin. Journal of Chemical Physics, 1975, 63, 118-130.	1.2	109
232	Electron spin resonance studies of anisotropic ordering, spin relaxation, and slow tumbling in liquid crystalline solvents. The Journal of Physical Chemistry, 1975, 79, 2283-2306.	2.9	286
233	Theory of saturation and double resonance in electron spin resonance spectra. VI. Saturation recovery. The Journal of Physical Chemistry, 1974, 78, 1155-1167.	2.9	49
234	Interpretation of electron spin resonance spectra of spin labels undergoing very anisotropic rotational reorientation. Comments. The Journal of Physical Chemistry, 1974, 78, 1324-1329.	2.9	80

#	ARTICLE	IF	CITATIONS
235	Theory of chemically induced dynamic electron polarization. II. Journal of Chemical Physics, 1973, 59, 2869-2885.	1.2	120
236	Calculation of Magnitudes of Chemically Induced Dynamic Electron Polarizations. Journal of Chemical Physics, 1972, 57, 1004-1006.	1.2	40
237	Spin ² Rotational Relaxation in One Dimension: Angular Momentum ² Orientational Correlation. Journal of Chemical Physics, 1972, 56, 1407-1408.	1.2	5
238	ESR Study of Heisenberg Spin Exchange in a Binary Liquid Solution near the Critical Point. Journal of Chemical Physics, 1972, 56, 4103-4114.	1.2	25
239	Electron spin resonance line shapes and saturation in the slow motional region. The Journal of Physical Chemistry, 1971, 75, 3385-3399.	2.9	370
240	ESR Line Shapes for Triplets Undergoing Slow Rotational Reorientation. Journal of Chemical Physics, 1971, 55, 5270-5281.	1.2	65
241	ESR Studies of Heisenberg Spin Exchange. II. Effects of Radical Charge and Size. Journal of Chemical Physics, 1970, 52, 2511-2522.	1.2	69
242	ESR Studies of Heisenberg Spin Exchange. III. An ELDOR Study. Journal of Chemical Physics, 1970, 52, 321-327.	1.2	40
243	ESR Relaxation Studies on Orbitally Degenerate Free Radicals. I. Benzene Anion and Tropenyl. Journal of Chemical Physics, 1969, 50, 5243-5257.	1.2	111
244	Theory of Saturation and Double Resonance Effects in ESR Spectra. IV. Electron ² Nuclear Triple Resonance. Journal of Chemical Physics, 1969, 50, 2271-2272.	1.2	37
245	T ₁ and Spin Relaxation in the Benzene Anion. Journal of Chemical Physics, 1968, 49, 4715-4717.	1.2	22
246	Electron ² Electron Double Resonance of Free Radicals in Solution. Journal of Chemical Physics, 1968, 48, 4211-4226.	1.2	164
247	Generalized Cumulant Expansions and Spin ² Relaxation Theory. Journal of Chemical Physics, 1968, 49, 376-391.	1.2	115
248	Theory of saturation and double resonance effects in electron spin resonance spectra. II. Exchange vs. dipolar mechanisms. The Journal of Physical Chemistry, 1967, 71, 38-51.	2.9	106
249	Theory of Spin Relaxation via Quantum ² Molecular Systems: Resonance Effects. Journal of Chemical Physics, 1966, 45, 1251-1257.	1.2	9
250	On Heisenberg Spin Exchange in Liquids. Journal of Chemical Physics, 1966, 45, 3452-3453.	1.2	46
251	ESR Hyperfine Linewidths from Benzene Anion Distortions. Journal of Chemical Physics, 1965, 43, 1427-1428.	1.2	17
252	Theory of Saturation and Double ² Resonance Effects in ESR Spectra. Journal of Chemical Physics, 1965, 43, 2312-2332.	1.2	114

#	ARTICLE	IF	CITATIONS
253	On the Theory of Spin Relaxation of Gas Molecules: The Strong Collision Limit. Journal of Chemical Physics, 1964, 41, 7-13.	1.2	26
254	Anisotropic Rotational Diffusion and Electron Spin Resonance Linewidths. Journal of Chemical Physics, 1964, 41, 2077-2083.	1.2	161
255	Multi-frequency EPR determination of zero field splitting of high spin species in liquids: Gd(III) chelates in water. , 0, .		6