

Jack H Freed

List of Publications by Year in descending order

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255
papers

16,279
citations

12328

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21539

114
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269
all docs

269
docs citations

269
times ranked

7949
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory and Least Squares Fitting of CW ESR Saturation Spectra Using the MOMD Model. Applied Magnetic Resonance, 2022, 53, 699-715.	1.2	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” MBio, 2022, 13, e0367321.	4.1	0
3	Negatively charged residues in the membrane ordering activity of SARS-CoV-1 and -2 fusion peptides. Biophysical Journal, 2022, 121, 207-227.	0.5	9
4	The N-Terminal Domain of A β ₄₀ -Amyloid Fibril: The MOMD Perspective of its Dynamic Structure from NMR Lineshape Analysis. Journal of Physical Chemistry B, 2022, 126, 1202-1211.	2.6	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. Journal of Physical Chemistry B, 2022, 126, 2452-2465.	2.6	4
6	Membrane Binding Induces Distinct Structural Signatures in the Mouse Complexin-1C-Terminal Domain. Journal of Molecular Biology, 2022, , 167710.	4.2	4
7	Microsecond dynamics in proteins by two-dimensional ESR. II. Addressing computational challenges. Journal of Chemical Physics, 2021, 154, 084115.	3.0	0
8	SARS-CoV-2 Fusion Peptide has a Greater Membrane Perturbating Effect than SARS-CoV with Highly Specific Dependence on Ca ²⁺ . Journal of Molecular Biology, 2021, 433, 166946.	4.2	54
9	Extraction of Weak Spectroscopic Signals with High Fidelity: Examples from ESR. Journal of Physical Chemistry A, 2021, 125, 4480-4487.	2.5	6
10	Dph3 Enables Aerobic Dipthamide Biosynthesis by Donating One Iron Atom to Transform a [3Fe-4S] to a [4Fe-4S] Cluster in Dph1-Dph2. Journal of the American Chemical Society, 2021, 143, 9314-9319.	13.7	7
11	Highly Basic Clusters in the Herpes Simplex Virus 1 Nuclear Egress Complex Drive Membrane Budding by Inducing Lipid Ordering. MBio, 2021, 12, e0154821.	4.1	17
12	Benchmark Test and Guidelines for DEER/PELDOR Experiments on Nitroxide-Labeled Biomolecules. Journal of the American Chemical Society, 2021, 143, 17875-17890.	13.7	124
13	Local ordering and dynamics in anisotropic media by magnetic resonance: from liquid crystals to proteins. Liquid Crystals, 2020, 47, 1926-1954.	2.2	4
14	Calcium Ions Directly Interact with the Ebola Virus Fusion Peptide To Promote Structure-Function Changes That Enhance Infection. ACS Infectious Diseases, 2020, 6, 250-260.	3.8	72
15	Engineered chemotaxis core signaling units indicate a constrained kinase-off state. Science Signaling, 2020, 13, .	3.6	10
16	Structural Dynamics by NMR in the Solid State: The Unified MOMD Perspective Applied to Organic Frameworks with Interlocked Molecules. Journal of Physical Chemistry B, 2020, 124, 6225-6235.	2.6	4
17	Microsecond Exchange Processes Studied by Two-Dimensional ESR at 95 GHz. Journal of the American Chemical Society, 2020, 142, 21368-21381.	13.7	7
18	George K. Fraenkel: Electron Spin Resonance Pioneer. ACS Symposium Series, 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.	5.4	7
20	Microsecond dynamics in proteins by two-dimensional ESR: Predictions. <i>Journal of Chemical Physics</i> , 2020, 152, 214112.	3.0	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.	1.3	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, .	3.4	93
23	The asymmetric function of Dph1–Dph2 heterodimer in diphthamide biosynthesis. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 777-782.	2.6	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.	7.1	19
25	Comment on “Distinct Populations in Spin-Label EPR Spectra from Nitroxides”, <i>Journal of Physical Chemistry B</i> , 2019, 123, 2454-2456.	2.6	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.	2.5	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.	2.6	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.	8.2	76
29	Organometallic and radical intermediates reveal mechanism of diphthamide biosynthesis. <i>Science</i> , 2018, 359, 1247-1250.	12.6	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.	7.1	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.	2.6	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.	2.5	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.	2.6	6
34	Protein dynamics in the solid-state from 2H NMR lineshape analysis. III. MOMD in the presence of Magic Angle Spinning. <i>Solid State Nuclear Magnetic Resonance</i> , 2018, 89, 35-44.	2.3	10
35	A facile approach for the in vitro assembly of multimeric membrane transport proteins. <i>ELife</i> , 2018, 7, .	6.0	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.	3.9	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.	2.5	49
38	Stability and Conformation of a Chemoreceptor HAMP Domain Chimera Correlates with Signaling Properties. <i>Biophysical Journal</i> , 2017, 112, 1383-1395.	0.5	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.	3.4	51
40	The Molten Globule State of Maltose Binding Protein: Structural Characterization by Epr Spectroscopy. <i>Biophysical Journal</i> , 2017, 112, 485a-486a.	0.5	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.	13.7	19
42	Signature of an aggregation-prone conformation of tau. <i>Scientific Reports</i> , 2017, 7, 44739.	3.3	69
43	Synthesis and Solution-Phase Characterization of Sulfonated Oligothioetheramides. <i>Macromolecules</i> , 2017, 50, 8731-8738.	4.8	12
44	Mechanistic Insight into the Photocontrolled Cationic Polymerization of Vinyl Ethers. <i>Journal of the American Chemical Society</i> , 2017, 139, 15530-15538.	13.7	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.	4.2	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.	4.6	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.	2.9	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.	2.8	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.	13.7	21
50	A New Wavelet Denoising Method for Selecting Decomposition Levels and Noise Thresholds. <i>IEEE Access</i> , 2016, 4, 3862-3877.	4.2	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.	3.4	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.	2.6	16
53	Mechanism of influenza A M2 transmembrane domain assembly in lipid membranes. <i>Scientific Reports</i> , 2015, 5, 11757.	3.3	55
54	Protein Dynamics in the Solid State from 2H NMR Line Shape Analysis. II. MOMD Applied to ¹³ C and ¹⁵ N Probes. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14022-14032.	2.6	11

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55	The Interaction between Influenza HA Fusion Peptide and Transmembrane Domain Affects Membrane Structure. Biophysical Journal, 2015, 109, 2523-2536.	0.5	34
56	Signal transduction in light-activated oxygen-voltage receptors lacking the adduct-forming cysteine residue. Nature Communications, 2015, 6, 10079.	12.8	86
57	Pulsed Dipolar Spectroscopy Reveals That Tyrosyl Radicals Are Generated in Both Monomers of the Cyclooxygenase-2 Dimer. Biochemistry, 2015, 54, 7309-7312.	2.5	9
58	Assembly States of FliM and FliG within the Flagellar Switch Complex. Journal of Molecular Biology, 2015, 427, 867-886.	4.2	35
59	Bacterial chemoreceptor dynamics correlate with activity state and are coupled over long distances. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2455-2460.	7.1	37
60	Protein Dynamics in the Solid State from ^2H NMR Line Shape Analysis: A Consistent Perspective. Journal of Physical Chemistry B, 2015, 119, 2857-2868.	2.6	25
61	Transport domain unlocking sets the uptake rate of an aspartate transporter. Nature, 2015, 518, 68-73.	27.8	144
62	Pulse Dipolar ESR of Doubly Labeled Mini TAR DNA and Its Annealing to Mini TAR RNA. Biophysical Journal, 2015, 108, 893-902.	0.5	6
63	Preformed Soluble Chemoreceptor Trimers That Mimic Cellular Assembly States and Activate CheA Autophosphorylation. Biochemistry, 2015, 54, 3454-3468.	2.5	14
64	Interaction of Spin-Labeled Lipid Membranes with Transition Metal Ions. Journal of Physical Chemistry B, 2015, 119, 13330-13346.	2.6	10
65	Focus: Two-dimensional electron-electron double resonance and molecular motions: The challenge of higher frequencies. Journal of Chemical Physics, 2015, 142, 212302.	3.0	14
66	Dimer Intermediate in the Assembly of Influenza A M2 Transmembrane Domain in Lipid Membranes. FASEB Journal, 2015, 29, 714.6.	0.5	0
67	Dph3 Is an Electron Donor for Dph1-Dph2 in the First Step of Eukaryotic Diphthamide Biosynthesis. Journal of the American Chemical Society, 2014, 136, 1754-1757.	13.7	59
68	Aggregation propensities of superoxide dismutase G93 hotspot mutants mirror ALS clinical phenotypes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4568-76.	7.1	64
69	Tau Binds to Lipid Membrane Surfaces via Short Amphipathic Helices Located in Its Microtubule-Binding Repeats. Biophysical Journal, 2014, 107, 1441-1452.	0.5	97
70	Copper-Based Pulsed Dipolar ESR Spectroscopy as a Probe of Protein Conformation Linked to Disease States. Biophysical Journal, 2014, 107, 1669-1674.	0.5	35
71	HIV gp41 Fusion Peptide Increases Membrane Ordering in a Cholesterol-Dependent Fashion. Biophysical Journal, 2014, 106, 172-181.	0.5	57
72	Defining Protein Complexes that Mediate Bacterial Chemotaxis by Pulsed Dipolar ESR Spectroscopy. Biophysical Journal, 2014, 106, 685a.	0.5	1

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73	Influenza Fusion Peptide and Transmembrane Domain Interaction Induces Distinct Domains in Lipid Bilayers. Biophysical Journal, 2014, 106, 707a.	0.5	3
74	Conformational ensemble of the sodium-coupled aspartate transporter. Nature Structural and Molecular Biology, 2013, 20, 215-221.	8.2	121
75	Pulse Dipolar Electron Spin Resonance: Distance Measurements. Structure and Bonding, 2013, , 1-82.	1.0	31
76	Improved Sensitivity for Long-Distance Measurements in Biomolecules: Five-Pulse Double Electronâ€“Electron Resonance. Journal of Physical Chemistry Letters, 2013, 4, 170-175.	4.6	124
77	HAMP Domain Conformers That Propagate Opposite Signals in Bacterial Chemoreceptors. PLoS Biology, 2013, 11, e1001479.	5.6	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. Journal of Physical Chemistry B, 2012, 116, 6694-6706.	2.6	34
80	Self-Association of the Histidine Kinase CheA as Studied by Pulsed Dipolar ESR Spectroscopy. Biophysical Journal, 2012, 102, 2192-2201.	0.5	22
81	Locating a Lipid at the Portal to the Lipoxygenase Active Site. Biophysical Journal, 2012, 103, 2134-2144.	0.5	54
82	Dynamics and ordering of lipid spin-labels along the coexistence curve of two membrane phases: An ESR study. Chemistry and Physics of Lipids, 2012, 165, 348-361.	3.2	22
83	Effect of freezing conditions on distances and their distributions derived from Double Electron Electron Resonance (DEER): A study of doubly-spin-labeled T4 lysozyme. Journal of Magnetic Resonance, 2012, 216, 69-77.	2.1	93
84	Entrance to a lipoxygenase substrate cavity is defined. FASEB Journal, 2012, 26, 756.12.	0.5	0
85	Mechanistic understanding of Pyrococcus horikoshiiDph2, a [4Feâ€“4S] enzyme required for diphthamidebiosynthesis. Molecular BioSystems, 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. Journal of Physical Chemistry B, 2011, 115, 10462-10469.	2.6	12
87	Methyl Dynamics of a Ca ²⁺ â€“Calmodulinâ€“Peptide Complex from NMR/SRLS. Journal of Physical Chemistry B, 2011, 115, 354-365.	2.6	15
88	Two Conserved Residues Are Important for Inducing Highly Ordered Membrane Domains by the Transmembrane Domain of Influenza Hemagglutinin. Biophysical Journal, 2011, 100, 90-97.	0.5	29
89	A new Lanczos-based algorithm for simulating high-frequency two-dimensional electron spin resonance spectra. Journal of Chemical Physics, 2011, 134, 034112.	3.0	3
90	Variable Coupling Scheme for High-Frequency Electron Spin Resonance Resonators Using Asymmetric Meshes. Applied Magnetic Resonance, 2010, 37, 819-832.	1.2	0

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91	Structural dynamics of bio-macromolecules by NMR: The slowly relaxing local structure approach. Progress in Nuclear Magnetic Resonance Spectroscopy, 2010, 56, 360-405.	7.5	86
92	Diphthamide biosynthesis requires an organic radical generated by an iron-sulphur enzyme. Nature, 2010, 465, 891-896.	27.8	180
93	The Lipid-binding Domain of Wild Type and Mutant Δ -Synuclein. Journal of Biological Chemistry, 2010, 285, 28261-28274.	3.4	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. Biochemistry, 2010, 49, 3824-3841.	2.5	73
95	Multifrequency Electron Spin Resonance Study of the Dynamics of Spin Labeled T4 Lysozyme. Journal of Physical Chemistry B, 2010, 114, 5503-5521.	2.6	129
96	Fusion Peptide from Influenza Hemagglutinin Increases Membrane Surface Order: An Electron-Spin Resonance Study. Biophysical Journal, 2009, 96, 4925-4934.	0.5	54
97	Multifrequency Electron Spin Resonance Spectra of a Spin-Labeled Protein Calculated from Molecular Dynamics Simulations. Journal of the American Chemical Society, 2009, 131, 2597-2605.	13.7	73
98	Determination of Tie-Line Fields for Coexisting Lipid Phases: An ESR Study. Journal of Physical Chemistry B, 2009, 113, 3957-3971.	2.6	39
99	Multifrequency ESR study of spin-labeled molecules in inclusion compounds with cyclodextrins. Physical Chemistry Chemical Physics, 2009, 11, 6676.	2.8	36
100	Membrane-Bound Δ -Synuclein Forms an Extended Helix: Long-Distance Pulsed ESR Measurements Using Vesicles, Bicelles, and Rodlike Micelles. Journal of the American Chemical Society, 2008, 130, 12856-12857.	13.7	253
101	Conformational Motion of the ABC Transporter MsbA Induced by ATP Hydrolysis. PLoS Biology, 2007, 5, e271.	5.6	131
102	Characterizing the structure and dynamics of folded oligomers: Pulsed ESR studies of peptoid helices. Chemical Communications, 2007, , 377-379.	4.1	34
103	Dynamic Molecular Structure and Phase Diagram of DPPC-Cholesterol Binary Mixtures: A 2D-ELDOR Study. Journal of Physical Chemistry B, 2007, 111, 11260-11270.	2.6	58
104	Measuring Distances by Pulsed Dipolar ESR Spectroscopy: Spin-Labeled Histidine Kinases. Methods in Enzymology, 2007, 423, 52-116.	1.0	138
105	A Many-Body Stochastic Approach to Rotational Motions in Liquids. Advances in Chemical Physics, 2007, , 89-206.	0.3	59
106	2D-ELDOR using full χ^2 fitting and absorption lineshapes. Journal of Magnetic Resonance, 2007, 188, 231-245.	2.1	6
107	Coexisting Domains in the Plasma Membranes of Live Cells Characterized by Spin-Label ESR Spectroscopy. Biophysical Journal, 2006, 90, 4452-4465.	0.5	128
108	ESR Microscopy and Nanoscopy with μ -Induction-Detection. Israel Journal of Chemistry, 2006, 46, 423-438.	2.3	30

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109	Protein Dynamics from NMR: The Slowly Relaxing Local Structure Analysis Compared with Model-Free Analysis. Journal of Physical Chemistry A, 2006, 110, 8366-8396.	2.5	82
110	Inter-Helix Distances in Lysophospholipid Micelle-Bound λ -Synuclein from Pulsed ESR Measurements. Journal of the American Chemical Society, 2006, 128, 10004-10005.	13.7	89
111	Reconstruction of the chemotaxis receptor-kinase assembly. Nature Structural and Molecular Biology, 2006, 13, 400-407.	8.2	257
112	Electron spin resonance microscopy applied to the study of controlled drug release. Journal of Controlled Release, 2006, 111, 174-184.	9.9	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. Journal of Magnetic Resonance, 2005, 177, 184-196.	2.1	142
115	High-frequency ESR at ACERT. Magnetic Resonance in Chemistry, 2005, 43, S256-S266.	1.9	64
116	The determination of pair distance distributions by pulsed ESR using Tikhonov regularization. Journal of Magnetic Resonance, 2005, 172, 279-295.	2.1	364
117	EPR Distance Measurements Support a Model for Long-Range Radical Initiation in E. coli Ribonucleotide Reductase. Journal of the American Chemical Society, 2005, 127, 15014-15015.	13.7	102
118	A three-dimensional electron spin resonance microscope. Review of Scientific Instruments, 2004, 75, 3050-3061.	1.3	22
119	A Multifrequency Electron Spin Resonance Study of T4 Lysozyme Dynamics Using the Slowly Relaxing Local Structure Model. Journal of Physical Chemistry B, 2004, 108, 17649-17659.	2.6	66
120	Spin-Labeled Gramicidin A: Channel Formation and Dissociation. Biophysical Journal, 2004, 87, 3504-3517.	0.5	52
121	Dynamic Molecular Structure of DPPC-DLPC-Cholesterol Ternary Lipid System by Spin-Label Electron Spin Resonance. Biophysical Journal, 2004, 87, 2483-2496.	0.5	53
122	Pulsed three-dimensional electron spin resonance microscopy. Applied Physics Letters, 2004, 85, 5430-5432.	3.3	27
123	Measurement of Large Distances in Biomolecules Using Double-Quantum Filtered Refocused Electron Spin Echoes. Journal of the American Chemical Society, 2004, 126, 7746-7747.	13.7	96
124	High resolution electron spin resonance microscopy. Journal of Magnetic Resonance, 2003, 165, 116-127.	2.1	65
125	Mode-Coupling SRLS versus Mode-Decoupled Model-Free NH Bond Dynamics: Mode-Mixing and Renormalization. Journal of Physical Chemistry B, 2003, 107, 9898-9904.	2.6	28
126	Mode-Coupling Analysis of ^{15}N CSA ^{15}N - 1H Dipolar Cross-Correlation in Proteins. Rhombic Potentials at the NH Bond. Journal of Physical Chemistry B, 2003, 107, 9883-9897.	2.6	22

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127	Lipid-Gramicidin Interactions: Dynamic Structure of the Boundary Lipid by 2D-ELDOR. Biophysical Journal, 2003, 84, 3364-3378.	0.5	32
128	Ordered and Disordered Phases Coexist in Plasma Membrane Vesicles of RBL-2H3 Mast Cells. An ESR Study. Biophysical Journal, 2003, 85, 1278-1288.	0.5	83
129	Hydration, Structure, and Molecular Interactions in the Headgroup Region of Dioleoylphosphatidylcholine Bilayers: An Electron Spin Resonance Study. Biophysical Journal, 2003, 85, 4023-4040.	0.5	81
130	A 2D-ELDOR Study of the Liquid Ordered Phase in Multilamellar Vesicle Membranes. Biophysical Journal, 2003, 84, 2619-2633.	0.5	41
131	Phase relaxation in a many-body system of diffusing spins: Slow motional limit. Journal of Chemical Physics, 2002, 117, 282-287.	3.0	3
132	Protein Structure Determination Using Long-Distance Constraints from Double-Quantum Coherence ESR: A Study of T4 Lysozyme. Journal of the American Chemical Society, 2002, 124, 5304-5314.	13.7	268
133	A Structural Mode-Coupling Approach to ^{15}N NMR Relaxation in Proteins. Journal of the American Chemical Society, 2001, 123, 3055-3063.	13.7	146
134	Direct-product formalism for calculating magnetic resonance signals in many-body systems of interacting spins. Journal of Chemical Physics, 2001, 115, 2401-2415.	3.0	15
135	A Multifrequency ESR Study of the Complex Dynamics of Membranes. Journal of Physical Chemistry B, 2001, 105, 11053-11056.	2.6	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. Journal of Chemical Physics, 2001, 115, 2416-2429.	3.0	12
137	NEW TECHNOLOGIES IN ELECTRON SPIN RESONANCE. Annual Review of Physical Chemistry, 2000, 51, 655-689.	10.8	185
138	Dipolar relaxation in a many-body system of spins of $1/2$. Journal of Chemical Physics, 2000, 112, 1425-1443.	3.0	21
139	Spin relaxation by dipolar coupling: From motional narrowing to the rigid limit. Journal of Chemical Physics, 2000, 112, 1413-1424.	3.0	32
140	An Electron Spin Resonance Study of DNA Dynamics Using the Slowly Relaxing Local Structure Model. Journal of Physical Chemistry B, 2000, 104, 5372-5381.	2.6	60
141	Multiple-quantum ESR and distance measurements. Chemical Physics Letters, 1999, 313, 145-154.	2.6	228
142	Electron Spin Resonance Characterization of Liquid Ordered Phase of Detergent-Resistant Membranes from RBL-2H3 Cells. Biophysical Journal, 1999, 77, 925-933.	0.5	118
143	Electron-Spin Resonance Study of Aggregation of Gramicidin in Dipalmitoylphosphatidylcholine Bilayers and Hydrophobic Mismatch. Biophysical Journal, 1999, 76, 264-280.	0.5	65
144	A Multifrequency Electron Spin Resonance Study of T4 Lysozyme Dynamics. Biophysical Journal, 1999, 76, 3298-3306.	0.5	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.	2.6	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.	4.0	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.	0.5	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.	0.5	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.	1.7	47
150	A π -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.	1.3	27
151	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.	1.7	6
152	A 250 GHz ESR study of o-terphenyl: Dynamic cage effects above T _c . <i>Journal of Chemical Physics</i> , 1997, 106, 9996-10015.	3.0	73
153	Aqueous sample holders for high-frequency electron spin resonance. <i>Review of Scientific Instruments</i> , 1997, 68, 2838-2846.	1.3	52
154	Two-Dimensional Electron Spin Resonance and Slow Motions. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7998-8008.	2.5	57
155	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.	2.6	65
156	Theory of double quantum two-dimensional electron spin resonance with application to distance measurements. <i>Journal of Chemical Physics</i> , 1997, 107, 1317-1340.	3.0	95
157	Multifrequency Two-Dimensional Fourier Transform ESR: An X-Band Spectrometer. <i>Journal of Magnetic Resonance</i> , 1997, 127, 155-167.	2.1	115
158	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
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