

Jack H Freed

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

253
papers

13,947
citations

64
h-index

106
g-index

269
ext. papers

15,245
ext. citations

5.1
avg, IF

6.52
L-index

#	Paper	IF	Citations
253	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 , e0367321	7.8	0
252	Theory and Least Squares Fitting of CW ESR Saturation Spectra Using the MOMD Model.. <i>Applied Magnetic Resonance</i> , 2022 , 53, 699-715	0.8	0
251	Benchmark Test and Guidelines for DEER/PELDOR Experiments on Nitroxide-Labeled Biomolecules. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17875-17890	16.4	28
250	SARS-CoV-2 Fusion Peptide has a Greater Membrane Perturbating Effect than SARS-CoV with Highly Specific Dependence on Ca. <i>Journal of Molecular Biology</i> , 2021 , 433, 166946	6.5	20
249	Extraction of Weak Spectroscopic Signals with High Fidelity: Examples from ESR. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 4480-4487	2.8	2
248	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	16.4	1
247	Microsecond dynamics in proteins by two-dimensional ESR. II. Addressing computational challenges. <i>Journal of Chemical Physics</i> , 2021 , 154, 084115	3.9	0
246	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	7.8	4
245	Microsecond Exchange Processes Studied by Two-Dimensional ESR at 95 GHz. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21368-21381	16.4	1
244	George K. Fraenkel: Electron Spin Resonance Pioneer. <i>ACS Symposium Series</i> , 2020 , 137-154	0.4	0
243	Conformational Dynamics in Extended RGD-Containing Peptides. <i>Biomacromolecules</i> , 2020 , 21, 2786-2794	4.9	6
242	Microsecond dynamics in proteins by two-dimensional ESR: Predictions. <i>Journal of Chemical Physics</i> , 2020 , 152, 214112	3.9	3
241	High-yield production in E. coli and characterization of full-length functional p13 protein from human T-cell leukemia virus type 1. <i>Protein Expression and Purification</i> , 2020 , 173, 105659	2	0
240	Ca Ions Promote Fusion of Middle East Respiratory Syndrome Coronavirus with Host Cells and Increase Infectivity. <i>Journal of Virology</i> , 2020 , 94,	6.6	47
239	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	5.5	33
238	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	3.4	0
237	Local ordering and dynamics in anisotropic media by magnetic resonance: from liquid crystals to proteins. <i>Liquid Crystals</i> , 2020 , 47, 1926-1954	2.3	1

236	The asymmetric function of Dph1-Dph2 heterodimer in diphthamide biosynthesis. <i>Journal of Biological Inorganic Chemistry</i> , 2019 , 24, 777-782	3.7	5
235	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	11.5	10
234	Comment on "Distinct Populations in Spin-Label EPR Spectra from Nitroxides". <i>Journal of Physical Chemistry B</i> , 2019 , 123, 2454-2456	3.4	1
233	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	2.8	17
232	MOMD Analysis of NMR Line Shapes from Aβ Amyloid Fibrils: A New Tool for Characterizing Molecular Environments in Protein Aggregates. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 4793-4801	3.4	5
231	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	17.6	38
230	Organometallic and radical intermediates reveal mechanism of diphthamide biosynthesis. <i>Science</i> , 2018 , 359, 1247-1250	33.3	32
229	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	3.2	13
228	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	3.4	3
227	A facile approach for the in vitro assembly of multimeric membrane transport proteins. <i>ELife</i> , 2018 , 7,	8.9	15
226	Protein dynamics in the solid-state from H NMR lineshape analysis. III. MOMD in the presence of Magic Angle Spinning. <i>Solid State Nuclear Magnetic Resonance</i> , 2018 , 89, 35-44	3.1	8
225	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	11.5	47
224	Site-Specific Incorporation of a Cu 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	3.4	17
223	Structure-Function Studies Link Class II Viral Fusogens with the Ancestral Gamete Fusion Protein HAP2. <i>Current Biology</i> , 2017 , 27, 651-660	6.3	52
222	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	2.8	35
221	Stability and Conformation of a Chemoreceptor HAMP Domain Chimera Correlates with Signaling Properties. <i>Biophysical Journal</i> , 2017 , 112, 1383-1395	2.9	5
220	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	5.4	33
219	Substrate-Dependent Cleavage Site Selection by Unconventional Radical S-Adenosylmethionine Enzymes in Diphthamide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5680-5683	16.4	17

218	Signature of an aggregation-prone conformation of tau. <i>Scientific Reports</i> , 2017 , 7, 44739	4.9	48
217	Synthesis and Solution-Phase Characterization of Sulfonated Oligothioetheramides. <i>Macromolecules</i> , 2017 , 50, 8731-8738	5.5	9
216	Mechanistic Insight into the Photocontrolled Cationic Polymerization of Vinyl Ethers. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15530-15538	16.4	87
215	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	6.5	109
214	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	6.4	32
213	Dipolar Spectroscopy [Single-Resonance Methods 2017 , 465-494		13
212	Unique Structural Features of Membrane-Bound C-Terminal Domain Motifs Modulate Complexin Inhibitory Function. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 154	6.1	12
211	A New Wavelet Denoising Method for Selecting Decomposition Levels and Noise Thresholds. <i>IEEE Access</i> , 2016 , 4, 3862-3877	3.5	117
210	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	5.4	12
209	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, 2886-98	3.4	11
208	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	4.6	5
207	Organometallic Complex Formed by an Unconventional Radical S-Adenosylmethionine Enzyme. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9755-8	16.4	20
206	Preformed Soluble Chemoreceptor Trimers That Mimic Cellular Assembly States and Activate CheA Autophosphorylation. <i>Biochemistry</i> , 2015 , 54, 3454-68	3.2	9
205	Interaction of Spin-Labeled Lipid Membranes with Transition Metal Ions. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 13330-46	3.4	9
204	Focus: Two-dimensional electron-electron double resonance and molecular motions: The challenge of higher frequencies. <i>Journal of Chemical Physics</i> , 2015 , 142, 212302	3.9	7
203	Mechanism of influenza A M2 transmembrane domain assembly in lipid membranes. <i>Scientific Reports</i> , 2015 , 5, 11757	4.9	37
202	Protein Dynamics in the Solid State from (2)H NMR Line Shape Analysis. II. MOMD Applied to C-D and C-CD3 Probes. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14022-32	3.4	9
201	The Interaction between Influenza HA Fusion Peptide and Transmembrane Domain Affects Membrane Structure. <i>Biophysical Journal</i> , 2015 , 109, 2523-2536	2.9	27

200	Signal transduction in light-oxygen-voltage receptors lacking the adduct-forming cysteine residue. <i>Nature Communications</i> , 2015 , 6, 10079	17.4	61
199	Pulsed Dipolar Spectroscopy Reveals That Tyrosyl Radicals Are Generated in Both Monomers of the Cyclooxygenase-2 Dimer. <i>Biochemistry</i> , 2015 , 54, 7309-12	3.2	8
198	Assembly states of FliM and FliG within the flagellar switch complex. <i>Journal of Molecular Biology</i> , 2015 , 427, 867-886	6.5	31
197	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, 2455-60	11.5	28
196	Protein dynamics in the solid state from 2H NMR line shape analysis: a consistent perspective. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 2857-68	3.4	20
195	Transport domain unlocking sets the uptake rate of an aspartate transporter. <i>Nature</i> , 2015 , 518, 68-73	50.4	120
194	Pulse dipolar ESR of doubly labeled mini TAR DNA and its annealing to mini TAR RNA. <i>Biophysical Journal</i> , 2015 , 108, 893-902	2.9	5
193	Dimer Intermediate in the Assembly of Influenza A M2 Transmembrane Domain in Lipid Membranes. <i>FASEB Journal</i> , 2015 , 29, 714.6	0.9	
192	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, 1754-7	16.4	50
191	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	11.5	52
190	Tau binds to lipid membrane surfaces via short amphipathic helices located in its microtubule-binding repeats. <i>Biophysical Journal</i> , 2014 , 107, 1441-52	2.9	64
189	Copper-based pulsed dipolar ESR spectroscopy as a probe of protein conformation linked to disease states. <i>Biophysical Journal</i> , 2014 , 107, 1669-74	2.9	32
188	HIV gp41 fusion peptide increases membrane ordering in a cholesterol-dependent fashion. <i>Biophysical Journal</i> , 2014 , 106, 172-81	2.9	42
187	Conformational ensemble of the sodium-coupled aspartate transporter. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 215-21	17.6	101
186	Pulse Dipolar Electron Spin Resonance: Distance Measurements. <i>Structure and Bonding</i> , 2013 , 1-82	0.9	25
185	Improved Sensitivity for Long-Distance Measurements in Biomolecules: Five-Pulse Double Electron-Electron Resonance. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 170-175	6.4	92
184	HAMP domain conformers that propagate opposite signals in bacterial chemoreceptors. <i>PLoS Biology</i> , 2013 , 11, e1001479	9.7	44
183	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	3	72

182	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, 6694-706	3.4	29
181	Self-association of the histidine kinase CheA as studied by pulsed dipolar ESR spectroscopy. <i>Biophysical Journal</i> , 2012 , 102, 2192-201	2.9	17
180	Locating a lipid at the portal to the lipoxygenase active site. <i>Biophysical Journal</i> , 2012 , 103, 2134-44	2.9	45
179	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, 348-61	3.7	22
178	Entrance to a lipoxygenase substrate cavity is defined. <i>FASEB Journal</i> , 2012 , 26, 756.12	0.9	
177	Two conserved residues are important for inducing highly ordered membrane domains by the transmembrane domain of influenza hemagglutinin. <i>Biophysical Journal</i> , 2011 , 100, 90-7	2.9	22
176	Protein Dynamics by NMR Spin Relaxation: The Slowly Relaxing Local Structure Perspective 2011 ,		4
175	Stochastic Methods for Magnetic Resonance Spectroscopies 2011 , 549-582		3
174	Mechanistic understanding of <i>Pyrococcus horikoshii</i> Dph2, a [4Fe-4S] enzyme required for diphthamide biosynthesis. <i>Molecular BioSystems</i> , 2011 , 7, 74-81		34
173	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, 10462-9	3.4	11
172	Methyl dynamics of a Ca ²⁺ -calmodulin-peptide complex from NMR/SRLS. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 354-65	3.4	14
171	A new Lanczos-based algorithm for simulating high-frequency two-dimensional electron spin resonance spectra. <i>Journal of Chemical Physics</i> , 2011 , 134, 034112	3.9	3
170	Diphthamide biosynthesis requires an organic radical generated by an iron-sulphur enzyme. <i>Nature</i> , 2010 , 465, 891-6	50.4	153
169	The lipid-binding domain of wild type and mutant alpha-synuclein: compactness and interconversion between the broken and extended helix forms. <i>Journal of Biological Chemistry</i> , 2010 , 285, 28261-74	5.4	104
168	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, 3824-41	3.2	65
167	Multifrequency electron spin resonance study of the dynamics of spin labeled T4 lysozyme. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 5503-21	3.4	108
166	Variable Coupling Scheme for High Frequency Electron Spin Resonance Resonators Using Asymmetric Meshes. <i>Applied Magnetic Resonance</i> , 2010 , 37, 819-832	0.8	
165	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	10.4	73

164	Fusion peptide from influenza hemagglutinin increases membrane surface order: an electron-spin resonance study. <i>Biophysical Journal</i> , 2009 , 96, 4925-34	2.9	42
163	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, 2597-605	16.4	61
162	Determination of tie-line fields for coexisting lipid phases: an ESR study. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 3957-71	3.4	35
161	Multifrequency ESR study of spin-labeled molecules in inclusion compounds with cyclodextrins. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 6676-88	3.6	34
160	Membrane-bound alpha-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, 12856-7	16.4	222
159	Characterizing the structure and dynamics of folded oligomers: Pulsed ESR studies of peptoid helices. <i>Chemical Communications</i> , 2007 , 377-9	5.8	33
158	Dynamic molecular structure and phase diagram of DPPC-cholesterol binary mixtures: a 2D-ELDOR study. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11260-70	3.4	52
157	Measuring distances by pulsed dipolar ESR spectroscopy: spin-labeled histidine kinases. <i>Methods in Enzymology</i> , 2007 , 423, 52-116	1.7	124
156	A Many-Body Stochastic Approach to Rotational Motions in Liquids. <i>Advances in Chemical Physics</i> , 2007 , 89-206		51
155	2D-ELDOR using full S(-) fitting and absorption lineshapes. <i>Journal of Magnetic Resonance</i> , 2007 , 188, 231-45	3	6
154	Conformational motion of the ABC transporter MsbA induced by ATP hydrolysis. <i>PLoS Biology</i> , 2007 , 5, e271	9.7	120
153	Electron spin resonance microscopy applied to the study of controlled drug release. <i>Journal of Controlled Release</i> , 2006 , 111, 174-84	11.7	17
152	Coexisting domains in the plasma membranes of live cells characterized by spin-label ESR spectroscopy. <i>Biophysical Journal</i> , 2006 , 90, 4452-65	2.9	112
151	ESR Microscopy and Nanoscopy with Induction Detection. <i>Israel Journal of Chemistry</i> , 2006 , 46, 423-438	3.4	29
150	Protein dynamics from NMR: the slowly relaxing local structure analysis compared with model-free analysis. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 8366-96	2.8	69
149	Inter-helix distances in lysophospholipid micelle-bound alpha-synuclein from pulsed ESR measurements. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10004-5	16.4	83
148	Reconstruction of the chemotaxis receptor-kinase assembly. <i>Nature Structural and Molecular Biology</i> , 2006 , 13, 400-7	17.6	224
147	EPR distance measurements support a model for long-range radical initiation in E. coli ribonucleotide reductase. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15014-5	16.4	93

146	ESR and Molecular Dynamics 2005 , 239-268		19
145	Maximum entropy: a complement to Tikhonov regularization for determination of pair distance distributions by pulsed ESR. <i>Journal of Magnetic Resonance</i> , 2005 , 177, 184-96	3	123
144	High-frequency ESR at ACERT. <i>Magnetic Resonance in Chemistry</i> , 2005 , 43 Spec no., S256-66	2.1	52
143	The determination of pair distance distributions by pulsed ESR using Tikhonov regularization. <i>Journal of Magnetic Resonance</i> , 2005 , 172, 279-95	3	315
142	A three-dimensional electron spin resonance microscope. <i>Review of Scientific Instruments</i> , 2004 , 75, 3050-3061	3	21
141	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	3.4	64
140	Spin-labeled gramicidin a: channel formation and dissociation. <i>Biophysical Journal</i> , 2004 , 87, 3504-17	2.9	46
139	Dynamic molecular structure of DPPC-DLPC-cholesterol ternary lipid system by spin-label electron spin resonance. <i>Biophysical Journal</i> , 2004 , 87, 2483-96	2.9	46
138	Pulsed three-dimensional electron spin resonance microscopy. <i>Applied Physics Letters</i> , 2004 , 85, 5430-5432	3.2	25
137	Measurement of large distances in biomolecules using double-quantum filtered refocused electron spin-echoes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7746-7	16.4	96
136	High resolution electron spin resonance microscopy. <i>Journal of Magnetic Resonance</i> , 2003 , 165, 116-27	3	62
135	Mode-Coupling SRLS versus Mode-Decoupled Model-Free N ¹⁵ Bond Dynamics: Mode-Mixing and Renormalization. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9898-9904	3.4	26
134	Mode-Coupling Analysis of ¹⁵ N CSA/ ¹⁵ N- ¹ H Dipolar Cross-Correlation in Proteins. Rhombic Potentials at the N ¹⁵ Bond. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9883-9897	3.4	20
133	Lipid-gramicidin interactions: dynamic structure of the boundary lipid by 2D-ELDOR. <i>Biophysical Journal</i> , 2003 , 84, 3364-78	2.9	30
132	Ordered and disordered phases coexist in plasma membrane vesicles of RBL-2H3 mast cells. An ESR study. <i>Biophysical Journal</i> , 2003 , 85, 1278-88	2.9	73
131	Hydration, structure, and molecular interactions in the headgroup region of dioleoylphosphatidylcholine bilayers: an electron spin resonance study. <i>Biophysical Journal</i> , 2003 , 85, 4023-40	2.9	68
130	A 2D-ELDOR study of the liquid ordered phase in multilamellar vesicle membranes. <i>Biophysical Journal</i> , 2003 , 84, 2619-33	2.9	37
129	Phase relaxation in a many-body system of diffusing spins: Slow motional limit. <i>Journal of Chemical Physics</i> , 2002 , 117, 282-287	3.9	3

128	Protein structure determination using long-distance constraints from double-quantum coherence ESR: study of T4 lysozyme. <i>Journal of the American Chemical Society</i> , 2002 , 124, 5304-14	16.4	241
127	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	3.9	11
126	A structural mode-coupling approach to ¹⁵ N NMR relaxation in proteins. <i>Journal of the American Chemical Society</i> , 2001 , 123, 3055-63	16.4	126
125	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	3.9	12
124	A Multifrequency ESR Study of the Complex Dynamics of Membranes. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 11053-11056	3.4	56
123	New technologies in electron spin resonance. <i>Annual Review of Physical Chemistry</i> , 2000 , 51, 655-89	15.7	165
122	Dipolar relaxation in a many-body system of spins of 1/2. <i>Journal of Chemical Physics</i> , 2000 , 112, 1425-1443	3.9	19
121	Spin relaxation by dipolar coupling: From motional narrowing to the rigid limit. <i>Journal of Chemical Physics</i> , 2000 , 112, 1413-1424	3.9	29
120	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	3.4	57
119	Multiple-quantum ESR and distance measurements. <i>Chemical Physics Letters</i> , 1999 , 313, 145-154	2.5	196
118	Electron spin resonance characterization of liquid ordered phase of detergent-resistant membranes from RBL-2H3 cells. <i>Biophysical Journal</i> , 1999 , 77, 925-33	2.9	110
117	Electron-spin resonance study of aggregation of gramicidin in dipalmitoylphosphatidylcholine bilayers and hydrophobic mismatch. <i>Biophysical Journal</i> , 1999 , 76, 264-80	2.9	62
116	A multifrequency electron spin resonance study of T4 lysozyme dynamics. <i>Biophysical Journal</i> , 1999 , 76, 3298-306	2.9	125
115	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	3.4	144
114	An EPR Study of Some Highly Distorted Tetrahedral Manganese(II) Complexes at High Magnetic Fields. <i>Inorganic Chemistry</i> , 1999 , 38, 5384-5388	5.1	49
113	Polarity profiles in oriented and dispersed phosphatidylcholine bilayers are different: an electron spin resonance study. <i>Biophysical Journal</i> , 1998 , 74, 910-7	2.9	44
112	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, 2532-46	2.9	61
111	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	45

110	A $\text{B}_{\text{h}}\text{nt}$ -Fabry-Perot resonator for high-frequency electron spin resonance utilizing a variable coupling scheme. <i>Review of Scientific Instruments</i> , 1998 , 69, 3022-3027	1.7	26
109	A 250 GHz ESR study of o-terphenyl: Dynamic cage effects above T _c . <i>Journal of Chemical Physics</i> , 1997 , 106, 9996-10015	3.9	68
108	Aqueous sample holders for high-frequency electron spin resonance. <i>Review of Scientific Instruments</i> , 1997 , 68, 2838-2846	1.7	51
107	Two-Dimensional Electron Spin Resonance and Slow Motions. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 7998-8008	2.8	51
106	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	3.4	61
105	Theory of double quantum two-dimensional electron spin resonance with application to distance measurements. <i>Journal of Chemical Physics</i> , 1997 , 107, 1317-1340	3.9	86
104	Multifrequency two-dimensional Fourier transform ESR: an X/Ku-band spectrometer. <i>Journal of Magnetic Resonance</i> , 1997 , 127, 155-67	3	103
103	Translational Diffusion in Polydisperse Polymer Samples Studied by Dynamic Imaging of Diffusion ESR. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 15856-15866		13
102	Molecular Dynamics of a Liquid Crystalline Polymer Studied by Two-Dimensional Fourier Transform and CW ESR. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 15873-15885		32
101	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		15
100	Rotational dynamics of axially symmetric solutes in isotropic solvents. II. The stochastic model. <i>Journal of Chemical Physics</i> , 1996 , 104, 1090-1104	3.9	28
99	Millimeter Wave Electron Spin Resonance Using Quasioptical Techniques. <i>Advances in Magnetic and Optical Resonance</i> , 1996 , 253-323		34
98	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		745
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