

Jack H Freed

List of Publications by Year in descending order

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255
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16,279
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12322

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docs citations

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times ranked

7949
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Dynamic effects of pair correlation functions on spin relaxation by translational diffusion in liquids. II. Finite jumps and independent T1 processes. <i>Journal of Chemical Physics</i> , 1978, 68, 4034-4037.	1.2	424
3	Electron spin resonance line shapes and saturation in the slow motional region. <i>The Journal of Physical Chemistry</i> , 1971, 75, 3385-3399.	2.9	370
4	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
5	Stochastic-molecular theory of spin-relaxation for liquid crystals. <i>Journal of Chemical Physics</i> , 1977, 66, 4183-4199.	1.2	346
6	Electron spin resonance studies of anisotropic ordering, spin relaxation, and slow tumbling in liquid crystalline solvents. <i>The Journal of Physical Chemistry</i> , 1975, 79, 2283-2306.	2.9	286
7	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
8	Reconstruction of the chemotaxis receptor-kinase assembly. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 400-407.	3.6	257
9	Membrane-Bound $\hat{\pm}$ -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
10	Calculation of ESR spectra and related Fokker-Planck forms by the use of the Lanczos algorithm. <i>Journal of Chemical Physics</i> , 1981, 74, 3757-3773.	1.2	248
11	Multiple-quantum ESR and distance measurements. <i>Chemical Physics Letters</i> , 1999, 313, 145-154.	1.2	228
12	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
13	NEWTECHNOLOGIES IN ELECTRON SPIN RESONANCE. <i>Annual Review of Physical Chemistry</i> , 2000, 51, 655-689.	4.8	185
14	Diphthamide biosynthesis requires an organic radical generated by an iron-sulphur enzyme. <i>Nature</i> , 2010, 465, 891-896.	13.7	180
15	Calculating Slow Motional Magnetic Resonance Spectra. <i>Biological Magnetic Resonance</i> , 1989, , 1-76.	0.4	179
16	Slow Motional ESR in Complex Fluids: The Slowly Relaxing Local Structure Model of Solvent Cage Effects. <i>The Journal of Physical Chemistry</i> , 1995, 99, 10995-11006.	2.9	176
17	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
18	A New Wavelet Denoising Method for Selecting Decomposition Levels and Noise Thresholds. <i>IEEE Access</i> , 2016, 4, 3862-3877.	2.6	170

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19	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
20	Electron Double Resonance of Free Radicals in Solution. <i>Journal of Chemical Physics</i> , 1968, 48, 4211-4226.	1.2	164
21	Anisotropic Rotational Diffusion and Electron Spin Resonance Linewidths. <i>Journal of Chemical Physics</i> , 1964, 41, 2077-2083.	1.2	161
22	Electron spin relaxation and ordering in smectic and supercooled nematic liquid crystals. <i>Journal of Chemical Physics</i> , 1982, 77, 3915-3938.	1.2	153
23	Electron spin resonance studies of anisotropic ordering, spin relaxation, and slow tumbling in liquid crystalline solvents. 3. Smectics. <i>The Journal of Physical Chemistry</i> , 1979, 83, 379-401.	2.9	150
24	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
25	Transport domain unlocking sets the uptake rate of an aspartate transporter. <i>Nature</i> , 2015, 518, 68-73.	13.7	144
26	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
27	Measuring Distances by Pulsed Dipolar ESR Spectroscopy: Spin-Labeled Histidine Kinases. <i>Methods in Enzymology</i> , 2007, 423, 52-116.	0.4	138
28	Rotational jumps of the tyrosine side chain in crystalline enkephalin. Hydrogen-2 NMR line shapes for aromatic ring motions in solids. <i>Journal of the American Chemical Society</i> , 1981, 103, 7707-7710.	6.6	132
29	Two-dimensional electron spin echo spectroscopy and slow motions. <i>Journal of Chemical Physics</i> , 1984, 81, 37-48.	1.2	132
30	A Multifrequency Electron Spin Resonance Study of T4 Lysozyme Dynamics. <i>Biophysical Journal</i> , 1999, 76, 3298-3306.	0.2	132
31	The Lipid-binding Domain of Wild Type and Mutant Δ -Synuclein. <i>Journal of Biological Chemistry</i> , 2010, 285, 28261-28274.	1.6	132
32	Conformational Motion of the ABC Transporter MsbA Induced by ATP Hydrolysis. <i>PLoS Biology</i> , 2007, 5, e271.	2.6	131
33	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
34	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
35	Improved Sensitivity for Long-Distance Measurements in Biomolecules: Five-Pulse Double Electron Resonance. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 170-175.	2.1	124
36	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

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37	Conformational ensemble of the sodium-coupled aspartate transporter. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 215-221.	3.6	121
38	Theory of chemically induced dynamic electron polarization. II. <i>Journal of Chemical Physics</i> , 1973, 59, 2869-2885.	1.2	120
39	1-cm wave ESR spectrometer. <i>Review of Scientific Instruments</i> , 1988, 59, 1345-1351.	0.6	120
40	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
41	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
42	Generalized Cumulant Expansions and Spin-Relaxation Theory. <i>Journal of Chemical Physics</i> , 1968, 49, 376-391.	1.2	115
43	Multifrequency Two-Dimensional Fourier Transform ESR: An X-Band Spectrometer. <i>Journal of Magnetic Resonance</i> , 1997, 127, 155-167.	1.2	115
44	Theory of Saturation and Double-Resonance Effects in ESR Spectra. <i>Journal of Chemical Physics</i> , 1965, 43, 2312-2332.	1.2	114
45	ESR Relaxation Studies on Orbitally Degenerate Free Radicals. I. Benzene Anion and Tropenyl. <i>Journal of Chemical Physics</i> , 1969, 50, 5243-5257.	1.2	111
46	A comparison of generalized cumulant and projection operator methods in spin-relaxation theory. <i>Journal of Chemical Physics</i> , 1975, 62, 4687-4696.	1.2	111
47	Generalized Einstein relations for rotational and translational diffusion of molecules including spin. <i>Journal of Chemical Physics</i> , 1975, 63, 118-130.	1.2	109
48	Theory of saturation and double resonance effects in electron spin resonance spectra. II. Exchange vs. dipolar mechanisms. <i>The Journal of Physical Chemistry</i> , 1967, 71, 38-51.	2.9	106
49	Two-dimensional Fourier transform ESR correlation spectroscopy. <i>Journal of Chemical Physics</i> , 1988, 88, 4678-4693.	1.2	102
50	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
51	Analysis of electron spin echoes by spectral representation of the stochastic Liouville equation. <i>Journal of Chemical Physics</i> , 1982, 77, 5410-5425.	1.2	100
52	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
53	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
54	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

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55	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
56	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
57	Inter-Helix Distances in Lysophospholipid Micelle-Bound Î±-Synuclein from Pulsed ESR Measurements. <i>Journal of the American Chemical Society</i> , 2006, 128, 10004-10005.	6.6	89
58	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
59	Signal transduction in light-activated oxygen voltage receptors lacking the adduct-forming cysteine residue. <i>Nature Communications</i> , 2015, 6, 10079.	5.8	86
60	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
61	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
62	Theory of chemically induced dynamic electron polarization. III. Initial triplet polarizations. <i>Journal of Chemical Physics</i> , 1975, 62, 1706-1711.	1.2	82
63	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
64	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
65	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
66	Interpretation of electron spin resonance spectra of spin labels undergoing very anisotropic rotational reorientation. <i>Comments. The Journal of Physical Chemistry</i> , 1974, 78, 1324-1329.	2.9	80
67	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
68	Efficient computation of magnetic resonance spectra and related correlation functions from stochastic Liouville equations. <i>The Journal of Physical Chemistry</i> , 1980, 84, 2837-2840.	2.9	77
69	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
70	A 250 GHz ESR study of o-terphenyl: Dynamic cage effects above Tc. <i>Journal of Chemical Physics</i> , 1997, 106, 9996-10015.	1.2	73
71	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
72	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

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73	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
74	ESR Studies of Heisenberg Spin Exchange. II. Effects of Radical Charge and Size. <i>Journal of Chemical Physics</i> , 1970, 52, 2511-2522.	1.2	69
75	Signature of an aggregation-prone conformation of tau. <i>Scientific Reports</i> , 2017, 7, 44739.	1.6	69
76	An ESR and ENDOR study of spin relaxation of semiquinones in liquid solution. <i>Journal of Chemical Physics</i> , 1975, 63, 165-199.	1.2	66
77	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
78	ESR Line Shapes for Triplets Undergoing Slow Rotational Reorientation. <i>Journal of Chemical Physics</i> , 1971, 55, 5270-5281.	1.2	65
79	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
80	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
81	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
82	High resolution electron spin resonance microscopy. <i>Journal of Magnetic Resonance</i> , 2003, 165, 116-127.	1.2	65
83	High-frequency ESR at ACERT. <i>Magnetic Resonance in Chemistry</i> , 2005, 43, S256-S266.	1.1	64
84	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
85	A Multifrequency ESR Study of the Complex Dynamics of Membranes. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11053-11056.	1.2	62
86	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
87	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
88	A Many-Body Stochastic Approach to Rotational Motions in Liquids. <i>Advances in Chemical Physics</i> , 2007, , 89-206.	0.3	59
89	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
90	A theoretical model of phospholipid dynamics in membranes. <i>Journal of Chemical Physics</i> , 1989, 91, 5707-5721.	1.2	58

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91	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
92	Two-Dimensional Electron Spin Resonance and Slow Motions. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7998-8008.	1.1	57
93	HIV gp41 Fusion Peptide Increases Membrane Ordering in a Cholesterol-Dependent Fashion. <i>Biophysical Journal</i> , 2014, 106, 172-181.	0.2	57
94	Far-infrared electron-paramagnetic-resonance spectrometer utilizing a quasioptical reflection bridge. <i>Review of Scientific Instruments</i> , 1996, 67, 2502-2513.	0.6	56
95	HAMP Domain Conformers That Propagate Opposite Signals in Bacterial Chemoreceptors. <i>PLoS Biology</i> , 2013, 11, e1001479.	2.6	55
96	Mechanism of influenza A M2 transmembrane domain assembly in lipid membranes. <i>Scientific Reports</i> , 2015, 5, 11757.	1.6	55
97	Two-dimensional Fourier transform ESR spectroscopy. <i>Journal of Chemical Physics</i> , 1986, 85, 5375-5377.	1.2	54
98	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
99	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
100	Locating a Lipid at the Portal to the Lipoxygenase Active Site. <i>Biophysical Journal</i> , 2012, 103, 2134-2144.	0.2	54
101	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
102	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
103	Aqueous sample holders for high-frequency electron spin resonance. <i>Review of Scientific Instruments</i> , 1997, 68, 2838-2846.	0.6	52
104	Spin-Labeled Gramicidin A: Channel Formation and Dissociation. <i>Biophysical Journal</i> , 2004, 87, 3504-3517.	0.2	52
105	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
106	Spin-echoes for diffusion in bounded, heterogeneous media: A numerical study. <i>Journal of Chemical Physics</i> , 1980, 72, 1285-1292.	1.2	50
107	Electron-spin relaxation and molecular dynamics in liquids. I. Solvent dependence. <i>Journal of Chemical Physics</i> , 1982, 77, 3344-3359.	1.2	50
108	Theory of two-dimensional Fourier transform electron spin resonance for ordered and viscous fluids. <i>Journal of Chemical Physics</i> , 1994, 101, 5529-5558.	1.2	50

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109	Theory of saturation and double resonance in electron spin resonance spectra. VI. Saturation recovery. <i>The Journal of Physical Chemistry</i> , 1974, 78, 1155-1167.	2.9	49
110	Heisenberg spin exchange and molecular diffusion in liquid crystals. <i>Journal of Chemical Physics</i> , 1989, 91, 6887-6905.	1.2	49
111	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
112	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
113	Organometallic and radical intermediates reveal mechanism of diphthamide biosynthesis. <i>Science</i> , 2018, 359, 1247-1250.	6.0	48
114	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
115	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
116	On Heisenberg Spin Exchange in Liquids. <i>Journal of Chemical Physics</i> , 1966, 45, 3452-3453.	1.2	46
117	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
118	A two-dimensional Fourier transform electron spin resonance (ESR) study of nuclear modulation and spin relaxation in irradiated malonic acid. <i>Journal of Chemical Physics</i> , 1993, 98, 3665-3689.	1.2	44
119	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
120	Direct determination of rotational correlation time by electron spin echoes. <i>Journal of Chemical Physics</i> , 1980, 73, 3502-3503.	1.2	42
121	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
122	A 2D-ELDOR Study of the Liquid Ordered Phase in Multilamellar Vesicle Membranes. <i>Biophysical Journal</i> , 2003, 84, 2619-2633.	0.2	41
123	ESR Studies of Heisenberg Spin Exchange. III. An ELDOR Study. <i>Journal of Chemical Physics</i> , 1970, 52, 321-327.	1.2	40
124	Calculation of Magnitudes of Chemically Induced Dynamic Electron Polarizations. <i>Journal of Chemical Physics</i> , 1972, 57, 1004-1006.	1.2	40
125	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
126	Theory of Saturation and Double Resonance Effects in ESR Spectra. IV. Electron-Nuclear Triple Resonance. <i>Journal of Chemical Physics</i> , 1969, 50, 2271-2272.	1.2	37

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127	Electron spin resonance studies of anisotropic ordering, spin relaxation, and slow tumbling in liquid crystalline solvents. 4. Cholestane motions and surface anchoring in smectics. <i>The Journal of Physical Chemistry</i> , 1980, 84, 2459-2472.	2.9	37
128	Mechanistic understanding of <i>Pyrococcus horikoshii</i> Dph2, a [4Fe-4S] enzyme required for diphthamide biosynthesis. <i>Molecular BioSystems</i> , 2011, 7, 74-81.	2.9	37
129	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
130	Stochastic modeling of generalized Fokker-Planck equations. I.. <i>Journal of Chemical Physics</i> , 1980, 72, 550-566.	1.2	36
131	Millimeter Wave Electron Spin Resonance Using Quasioptical Techniques. <i>Advances in Magnetic and Optical Resonance</i> , 1996, , 253-323.	1.7	36
132	Multifrequency ESR study of spin-labeled molecules in inclusion compounds with cyclodextrins. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6676.	1.3	36
133	Electron spin relaxation and molecular dynamics in liquids. II. Density dependence. <i>Journal of Chemical Physics</i> , 1982, 77, 3360-3375.	1.2	35
134	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.	2.9	35
135	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
136	Assembly States of FliM and FliG within the Flagellar Switch Complex. <i>Journal of Molecular Biology</i> , 2015, 427, 867-886.	2.0	35
137	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
138	Characterizing the structure and dynamics of folded oligomers: Pulsed ESR studies of peptoid helices. <i>Chemical Communications</i> , 2007, , 377-379.	2.2	34
139	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
140	The Interaction between Influenza HA Fusion Peptide and Transmembrane Domain Affects Membrane Structure. <i>Biophysical Journal</i> , 2015, 109, 2523-2536.	0.2	34
141	Classical time-correlation functions and the Lanczos algorithm. <i>Journal of Chemical Physics</i> , 1981, 75, 3157-3159.	1.2	33
142	Slow motional NMR lineshapes for very anisotropic diffusion: I = 1 nuclei. <i>Chemical Physics Letters</i> , 1979, 64, 311-316.	1.2	32
143	9.6 GHz and 34 GHz electron paramagnetic resonance studies of chromium-doped forsterite. <i>Journal of Chemical Physics</i> , 1994, 101, 3538-3548.	1.2	32
144	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

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145	Lipid-Gramicidin Interactions: Dynamic Structure of the Boundary Lipid by 2D-ELDOR. Biophysical Journal, 2003, 84, 3364-3378.	0.2	32
146	Singular Value Decomposition Method To Determine Distance Distributions in Pulsed Dipolar Electron Spin Resonance: II. Estimating Uncertainty. Journal of Physical Chemistry A, 2019, 123, 359-370.	1.1	32
147	Theory of chemically induced dynamic spin polarization. IV. Low field effects. Journal of Chemical Physics, 1979, 70, 1359-1370.	1.2	31
148	Is spin aligned hydrogen a Bose gas?. Journal of Chemical Physics, 1980, 72, 1414-1415.	1.2	31
149	Rotational dynamics of axially symmetric solutes in isotropic solvents. II. The stochastic model. Journal of Chemical Physics, 1996, 104, 1090-1104.	1.2	31
150	Pulse Dipolar Electron Spin Resonance: Distance Measurements. Structure and Bonding, 2013, , 1-82.	1.0	31
151	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
152	ESR Microscopy and Nanoscopy with Induction Detection. Israel Journal of Chemistry, 2006, 46, 423-438.	1.0	30
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