

Eva Meirovitch

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/56245/publications.pdf>

Version: 2024-02-01

65
papers

2,024
citations

279487

23
h-index

243296

44
g-index

67
all docs

67
docs citations

67
times ranked

1158
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Measurement of bond vector orientations in invisible excited states of proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18473-18477.	3.3	172
3	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
4	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
5	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
6	<i>Escherichia coli</i> adenylate kinase dynamics: Comparison of elastic network model modes with mode-coupling ^{15}N -NMR relaxation data. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 57, 468-480.	1.5	88
7	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
8	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
9	Domain Flexibility in Ligand-Free and Inhibitor-Bound <i>Escherichia coli</i> Adenylate Kinase Based on a Mode-Coupling Analysis of ^{15}N Spin Relaxation. <i>Biochemistry</i> , 2002, 41, 6271-6281.	1.2	74
10	A novel view of domain flexibility in <i>E. coli</i> adenylate kinase based on structural mode-coupling ^{15}N NMR relaxation 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 2002, 315, 155-170.	2.0	62
11	Backbone Dynamics of <i>Escherichia coli</i> Adenylate Kinase at the Extreme Stages of the Catalytic Cycle Studied by ^{15}N NMR Relaxation. <i>Biochemistry</i> , 2000, 39, 6634-6644.	1.2	52
12	General Theoretical/Computational Tool for Interpreting NMR Spin Relaxation in Proteins. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13613-13625.	1.2	50
13	Electron spin resonance spectroscopy of single crystals of concanavalin A. <i>Journal of the American Chemical Society</i> , 1974, 96, 7538-7542.	6.6	42
14	NMR studies of a channel protein without membranes: Structure and dynamics of water-solubilized KcsA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16537-16542.	3.3	41
15	Activation Energy of Catalysis-Related Domain Motion in <i>E. coli</i> Adenylate Kinase. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11519-11524.	1.2	39
16	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
17	Slow motional NMR lineshapes for very anisotropic diffusion: $I = 1$ nuclei. <i>Chemical Physics Letters</i> , 1979, 64, 311-316.	1.2	32
18	Integrated Computational Approach to the Analysis of NMR Relaxation in Proteins: Application to ^{15}N Main Chain ^1H and Global Dynamics of the Rho GTPase Binding Domain of Plexin-B1. <i>Journal of Physical Chemistry B</i> , 2011, 115, 376-388.	1.2	32

#	ARTICLE	IF	CITATIONS
19	ESR studies of low water content 1,2-dipalmitoyl-sn-glycero-3-phosphocholine in oriented multilayers. 1. Evidence for long-range cooperative chain distortions. <i>The Journal of Physical Chemistry</i> , 1980, 84, 3281-3295.	2.9	30
20	Mode-Coupling SRLS versus Mode-Decoupled Model-Free ^1H Bond Dynamics: Mode-Mixing and Renormalization. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9898-9904.	1.2	28
21	Analysis of ^{15}N ^1H NMR Relaxation in Proteins by a Combined Experimental and Molecular Dynamics Simulation Approach: Picosecond to Nanosecond Dynamics of the Rho GTPase Binding Domain of Plexin-B1 in the Dimeric State Indicates Allosteric Pathways. <i>Journal of Physical Chemistry B</i> , 2013, 117, 174-184.	1.2	28
22	An integrated approach to NMR spin relaxation in flexible biomolecules: Application to $^2\text{-D}$ -glucopyranosyl-(1 \rightarrow 6)- $^1\text{-D}$ -mannopyranosyl-OMe. <i>Journal of Chemical Physics</i> , 2009, 131, 234501.	1.2	27
23	Protein Dynamics in the Solid State from ^2H NMR Line Shape Analysis: A Consistent Perspective. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2857-2868.	1.2	25
24	An Improved Picture of Methyl Dynamics in Proteins from Slowly Relaxing Local Structure Analysis of ^2H Spin Relaxation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12865-12875.	1.2	23
25	Mode-Coupling Analysis of ^{15}N CSA ^{15}N - ^1H Dipolar Cross-Correlation in Proteins. Rhombic Potentials at the ^1H Bond. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9883-9897.	1.2	22
26	Methyl Dynamics in Proteins from NMR Slowly Relaxing Local Structure Spin Relaxation Analysis: A New Perspective. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20615-20628.	1.2	22
27	Domain Mobility in Proteins from NMR/SRLS. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12050-12060.	1.2	19
28	Slowly Relaxing Local Structure (SRLS) Analysis of ^{15}N ^1H Relaxation from the Prototypical Small Proteins GB1 and GB3. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4056-4068.	1.2	19
29	Theoretical modeling of a directly heated solar-driven chemical reactor. <i>Solar Energy</i> , 1990, 45, 139-148.	2.9	17
30	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
31	Methyl Dynamics of a Ca^{2+} Calmodulin Peptide Complex from NMR/SRLS. <i>Journal of Physical Chemistry B</i> , 2011, 115, 354-365.	1.2	15
32	SRLS Analysis of ^{15}N Spin Relaxation from <i>E. coli</i> Ribonuclease HI: The Tensorial Perspective. <i>Journal of Physical Chemistry B</i> , 2012, 116, 886-894.	1.2	15
33	The structure of the smectic phases of terephthal-bis-(butylaniline) studied by electron spin resonance spectroscopy. <i>Molecular Physics</i> , 1975, 30, 1589-1602.	0.8	13
34	Backbone Dynamics of Deoxy and Carbonmonoxy Hemoglobin by NMR/SRLS. <i>Journal of Physical Chemistry B</i> , 2011, 115, 143-157.	1.2	13
35	Evidence for Domain Motion in Proteins Affecting Global Diffusion Properties: a Nuclear Magnetic Resonance Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7003-7011.	1.2	12
36	Comment on "The physical basis of model-free analysis of NMR relaxation data from proteins and complex fluids" [J. Chem. Phys. 131, 224507 (2009)]. <i>Journal of Chemical Physics</i> , 2010, 132, 207101.	1.2	11

#	ARTICLE	IF	CITATIONS
37	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.	1.2	11
38	Local Ordering at Mobile Sites in Proteins: Combining Perspectives from NMR Relaxation and Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2745-2755.	1.2	10
39	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.	1.5	10
40	C++OPPS, a new software for the interpretation of protein dynamics from nuclear magnetic resonance measurements. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 387-405.	1.0	9
41	Structural Dynamics of the Potassium Channel Blocker ShK: SRLS Analysis of ^{15}N Relaxation. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15130-15137.	1.2	9
42	Conformational Entropy from Mobile Bond Vectors in Proteins: A Viewpoint that Unifies NMR Relaxation Theory and Molecular Dynamics Simulation Approaches. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9323-9334.	1.2	9
43	An SRLS Study of ^2H Methyl-Moiety Relaxation and Related Conformational Entropy in Free and Peptide-Bound PLC- β_3 . <i>Journal of Physical Chemistry B</i> , 2016, 120, 10695-10705.	1.2	8
44	^{15}N - ^1H -Related Conformational Entropy Changes Entailed By Plexin-B1 RBD Dimerization: Combined Molecular Dynamics/NMR Relaxation Approach. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3007-3015.	1.2	8
45	SRLS Analysis of ^{15}N Relaxation from Bacteriophage T4 Lysozyme: a Tensorial Perspective That Features Domain Motion. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6118-6127.	1.2	7
46	MOMD Analysis of NMR Line Shapes from $\text{A}\beta$ -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
47	Conformational Entropy from NMR Relaxation in Proteins: The SRLS Perspective. <i>Journal of Physical Chemistry B</i> , 2017, 121, 758-768.	1.2	6
48	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
49	Local Ordering at the ^1H Sites of the Rho GTPase Binding Domain of Plexin-B1: Impact of Dimerization. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8019-8033.	1.2	6
50	Polar Versus Non-polar Local Ordering at Mobile Sites in Proteins: Slowly Relaxing Local Structure Analysis of ^{15}N Relaxation in the Third Immunoglobulin-Binding Domain of Streptococcal Protein G. <i>Journal of Physical Chemistry B</i> , 2016, 120, 386-395.	1.2	5
51	SRLS Analysis of ^{15}N - ^1H NMR Relaxation from the Protein S100A1: Dynamic Structure, Calcium Binding, and Related Changes in Conformational Entropy. <i>Journal of Physical Chemistry B</i> , 2021, 125, 805-816.	1.2	5
52	Sequence-specific ^1H , ^{15}N and ^{13}C assignment of adenylate kinase from <i>Escherichia coli</i> in complex with the inhibitor AP5A. <i>Journal of Biomolecular NMR</i> , 1999, 13, 195-196.	1.6	4
53	Standard Tensorial Analysis of Local Ordering in Proteins from Residual Dipolar Couplings. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6106-6117.	1.2	4
54	The time correlation function perspective of NMR relaxation in proteins. <i>Journal of Chemical Physics</i> , 2013, 139, 084107.	1.2	4

#	ARTICLE	IF	CITATIONS
55	Conformational Entropy from Slowly Relaxing Local Structure Analysis of ^{15}N - ^1H Relaxation in Proteins: Application to Pheromone Binding to MUP-I in the 283–308 K Temperature Range. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8684-8692.	1.2	4
56	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
57	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
58	Structural Dynamics from NMR Relaxation by SRLS Analysis: Local Geometry, Potential Energy Landscapes, and Spectral Densities. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6130-6143.	1.2	4
59	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
60	An ^2H N.M.R. study of solid methyl parathione- d_6 and parathione- d_6 . <i>Molecular Physics</i> , 1985, 56, 1129-1143.	0.8	3
61	The Slowly Relaxing Local Structure Perspective of Protein Dynamics by NMR Relaxation. <i>Israel Journal of Chemistry</i> , 2014, 54, 47-59.	1.0	3
62	The N-Terminal Domain of $\text{A}\beta_{40}$ -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
63	The eigenmode perspective of NMR spin relaxation in proteins. <i>Journal of Chemical Physics</i> , 2013, 139, 225104.	1.2	1
64	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
65	Conformational Entropy from Restricted Bond-Vector Motion in Proteins: The Symmetry of the Local Restrictions and Relation to NMR Relaxation. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4284-4292.	1.2	0