

Gail E Fanucci

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,130
citations

430874

18
h-index

395702

33
g-index

41
all docs

41
docs citations

41
times ranked

1166
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances and applications of site-directed spin labeling. <i>Current Opinion in Structural Biology</i> , 2006, 16, 644-653.	5.7	293
2	Synthetic upcycling of polyacrylates through organocatalyzed post-polymerization modification. <i>Chemical Science</i> , 2017, 8, 7705-7709.	7.4	79
3	Drug Pressure Selected Mutations in HIV-1 Protease Alter Flap Conformations. <i>Journal of the American Chemical Society</i> , 2009, 131, 430-431.	13.7	70
4	Interflap Distances in HIV-1 Protease Determined by Pulsed EPR Measurements. <i>Journal of the American Chemical Society</i> , 2007, 129, 11004-11005.	13.7	52
5	Monitoring Inhibitor-Induced Conformational Population Shifts in HIV-1 Protease by Pulsed EPR Spectroscopy. <i>Biochemistry</i> , 2009, 48, 8765-8767.	2.5	44
6	Subtype Polymorphisms Among HIV-1 Protease Variants Confer Altered Flap Conformations and Flexibility. <i>Journal of the American Chemical Society</i> , 2009, 131, 14650-14651.	13.7	44
7	The Role of Select Subtype Polymorphisms on HIV-1 Protease Conformational Sampling and Dynamics. <i>Journal of Biological Chemistry</i> , 2014, 289, 17203-17214.	3.4	43
8	Block Copolymer Sequence Inversion through Photoiniferter Polymerization. <i>ACS Macro Letters</i> , 2019, 8, 1461-1466.	4.8	38
9	Characterization of the disordered-to-ordered helical transition of IA ₃ by SDSL-EPR spectroscopy. <i>Protein Science</i> , 2011, 20, 150-159.	7.6	35
10	Langmuir-Blodgett Films Based on Known Layered Solids: Lanthanide(III) Octadecylphosphonate LB Films. <i>Langmuir</i> , 1999, 15, 3289-3295.	3.5	30
11	Elucidating a Relationship between Conformational Sampling and Drug Resistance in HIV-1 Protease. <i>Biochemistry</i> , 2013, 52, 3278-3288.	2.5	30
12	Characterizing the Dynamics of the Leader-Linker Interaction in the Glycine Riboswitch with Site-Directed Spin Labeling. <i>Biochemistry</i> , 2014, 53, 3526-3528.	2.5	24
13	Pulsed EPR characterization of HIV-1 protease conformational sampling and inhibitor-induced population shifts. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5819-5831.	2.8	24
14	Inhibitor-Induced Conformational Shifts and Ligand-Exchange Dynamics for HIV-1 Protease Measured by Pulsed EPR and NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14235-14244.	2.6	23
15	Toward increased concentration sensitivity for continuous wave EPR investigations of spin-labeled biological macromolecules at high fields. <i>Journal of Magnetic Resonance</i> , 2016, 265, 188-196.	2.1	22
16	Molecular Rationale for Improved Dynamic Nuclear Polarization of Biomembranes. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7880-7888.	2.6	22
17	Organic/Inorganic Langmuir-Blodgett Films Based on Metal Phosphonates: Preparation and Characterization of Phenoxy- and Biphenoxy-Substituted Zirconium Phosphonate Films. <i>Chemistry of Materials</i> , 1998, 10, 177-189.	6.7	20
18	Effects of Hinge-region Natural Polymorphisms on Human Immunodeficiency Virus-Type 1 Protease Structure, Dynamics, and Drug Pressure Evolution. <i>Journal of Biological Chemistry</i> , 2016, 291, 22741-22756.	3.4	20

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19	Conformational Flexibility and Dynamics of the Internal Loop and Helical Regions of the Kinkâ€˜Turn Motif in the Glycine Riboswitch by Site-Directed Spin-Labeling. <i>Biochemistry</i> , 2016, 55, 4295-4305.	2.5	20
20	Spin labeling and Double Electron-Electron Resonance (DEER) to Deconstruct Conformational Ensembles of HIV Protease. <i>Methods in Enzymology</i> , 2015, 564, 153-187.	1.0	19
21	Continuous wave W- and D-Band EPR spectroscopy offer â€œsweet-spotsâ€ for characterizing conformational changes and dynamics in intrinsically disordered proteins. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 723-728.	2.1	18
22	Pulsed EPR Distance Measurements in Soluble Proteins by Siteâ€˜Directed Spin Labeling (SDSL). <i>Current Protocols in Protein Science</i> , 2013, 74, 17.17.1-17.17.29.	2.8	17
23	Incorporating Inorganic Extended Lattice Structures into Langmuirâ€˜Blodgett Films: Comparing Metal Phosphonate LB Films to Their Solid-State Analogs. <i>Comments on Inorganic Chemistry</i> , 1997, 19, 133-151.	5.2	15
24	Residue specific partitioning of KL4 into phospholipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 3212-3219.	2.6	13
25	Characterizing Solution Surface Loop Conformational Flexibility of the GM2 Activator Protein. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10607-10617.	2.6	12
26	Post-polymerization modification of polymethacrylates enabled by ketoâ€˜enol tautomerization. <i>Polymer Chemistry</i> , 2020, 11, 2955-2958.	3.9	12
27	Site-Directed Spin-Labeling Strategies and Electron Paramagnetic Resonance Spectroscopy for Large Riboswitches. <i>Methods in Enzymology</i> , 2014, 549, 287-311.	1.0	10
28	Effects of PRE and POST therapy drugâ€˜pressure selected mutations on HIVâ€˜1 protease conformational sampling. <i>FEBS Letters</i> , 2014, 588, 3123-3128.	2.8	10
29	Probing Membrane Hydration at the Interface of Self-Assembled Peptide Amphiphiles Using Electron Paramagnetic Resonance. <i>ACS Macro Letters</i> , 2018, 7, 1261-1266.	4.8	10
30	Application of Solid-State ³¹ P NMR to the Study of Langmuirâ€˜Blodgett Films. <i>Journal of the American Chemical Society</i> , 1999, 121, 1088-1089.	13.7	9
31	A metabolically engineered spin-labeling approach for studying glycans on cells. <i>Chemical Science</i> , 2020, 11, 12522-12532.	7.4	9
32	Darunavir-Resistant HIV-1 Protease Constructs Uphold a Conformational Selection Hypothesis for Drug Resistance. <i>Viruses</i> , 2020, 12, 1275.	3.3	8
33	Backbone ¹ H, ¹³ C, and ¹⁵ N chemical shift assignment for HIV-1 protease subtypes and multi-drug resistant variant MDR 769. <i>Biomolecular NMR Assignments</i> , 2013, 7, 199-202.	0.8	6
34	Ion-dependent mobility effects of the <i>Fusobacterium nucleatum</i> glycine riboswitch aptamer II via site-directed spin-labeling (SDSL) electron paramagnetic resonance (EPR). <i>Biochemical and Biophysical Research Communications</i> , 2019, 516, 839-844.	2.1	4
35	Conformational landscape of non-B variants of HIV-1 protease: A pulsed EPR study. <i>Biochemical and Biophysical Research Communications</i> , 2020, 532, 219-224.	2.1	4
36	Enzymatic glycoengineering-based spin labelling of cell surface sialoglycans to enable their analysis by electron paramagnetic resonance (EPR) spectroscopy. <i>Analyst</i> , The, 2022, 147, 784-788.	3.5	4

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37	Spin-label scanning reveals conformational sensitivity of the bound helical interfaces of IA ₃ . AIMS Biophysics, 2018, 5, 166-181.	0.6	3
38	Organic/Inorganic Langmuir-Blodgett Films Based on Metal Phosphonates. Materials Research Society Symposia Proceedings, 1997, 488, 461.	0.1	0
39	Intragap States Induced Visible Light Absorption of TiO ₂ Nanoparticles: En Route to Solar Fuel Production. Materials Research Society Symposia Proceedings, 2015, 1784, 1.	0.1	0
40	Characterization of the Lipid Binding Pocket in GM2AP and SapB with EPR Spectroscopy. Applied Magnetic Resonance, 2018, 49, 1181-1199.	1.2	0