

# Andrew L Lee

## List of Publications by Year in descending order

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53  
papers

2,998  
citations

186265

28  
h-index

175258

52  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2651  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hidden dynamic allostery in a PDZ domain. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18249-18254.	7.1	296
2	Microscopic origins of entropy, heat capacity and the glass transition in proteins. Nature, 2001, 411, 501-504.	27.8	292
3	Redistribution and loss of side chain entropy upon formation of a calmodulin-peptide complex. Nature Structural Biology, 2000, 7, 72-77.	9.7	282
4	Ligand-dependent Dynamics and Intramolecular Signaling in a PDZ Domain. Journal of Molecular Biology, 2004, 335, 1105-1115.	4.2	215
5	Dynamic Coupling and Allosteric Behavior in a Nonallosteric Protein. Biochemistry, 2006, 45, 7693-7699.	2.5	130
6	Evaluation of Energetic and Dynamic Coupling Networks in a PDZ Domain Protein. Journal of Molecular Biology, 2006, 364, 337-351.	4.2	118
7	Comparison of <sup>2</sup> H and <sup>13</sup> C NMR Relaxation Techniques for the Study of Protein Methyl Group Dynamics in Solution. Journal of the American Chemical Society, 1999, 121, 2891-2902.	13.7	111
8	Mapping allosteric communications within individual proteins. Nature Communications, 2020, 11, 3862.	12.8	101
9	Temperature Dependence of the Internal Dynamics of a Calmodulin~Peptide Complex. Biochemistry, 2002, 41, 13814-13825.	2.5	88
10	Long-Range Dynamic Effects of Point Mutations Propagate through Side Chains in the Serine Protease Inhibitor Eglin. Biochemistry, 2004, 43, 12448-12458.	2.5	81
11	Evidence for dynamics in proteins as a mechanism for ligand dissociation. Nature Chemical Biology, 2012, 8, 246-252.	8.0	79
12	Using NMR to study fast dynamics in proteins: methods and applications. Current Opinion in Pharmacology, 2010, 10, 723-730.	3.5	72
13	Dynamic Dysfunction in Dihydrofolate Reductase Results from Antifolate Drug Binding: Modulation of Dynamics within a Structural State. Structure, 2009, 17, 386-394.	3.3	70
14	Assessing potential bias in the determination of rotational correlation times of proteins by NMR relaxation. , 1999, 13, 101-112.		69
15	Frameworks for Understanding Long-Range Intra-Protein Communication. Current Protein and Peptide Science, 2009, 10, 116-127.	1.4	64
16	Crystallographic and Nuclear Magnetic Resonance Evaluation of the Impact of Peptide Binding to the Second PDZ Domain of Protein Tyrosine Phosphatase 1E. Biochemistry, 2010, 49, 9280-9291.	2.5	64
17	Dynamics and Entropy of a Calmodulin~Peptide Complex Studied by NMR and Molecular Dynamics. Biochemistry, 2003, 42, 562-570.	2.5	61
18	Phosphorylation of a PDZ Domain Extension Modulates Binding Affinity and Interdomain Interactions in Postsynaptic Density-95 (PSD-95) Protein, a Membrane-associated Guanylate Kinase (MAGUK). Journal of Biological Chemistry, 2011, 286, 41776-41785.	3.4	61

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19	Supertertiary Structure of the MAGUK Core from PSD-95. <i>Structure</i> , 2013, 21, 402-413.	3.3	61
20	Dynamics of a De Novo Designed Three-Helix Bundle Protein Studied by <sup>15</sup> N, <sup>13</sup> C, and <sup>2</sup> H NMR Relaxation Methods. <i>Biochemistry</i> , 2001, 40, 9560-9569.	2.5	44
21	Relating side-chain mobility in proteins to rotameric transitions: Insights from molecular dynamics simulations and NMR. <i>Journal of Biomolecular NMR</i> , 2005, 32, 151-162.	2.8	43
22	Main Chain and Side Chain Dynamics of a Heme Protein: <sup>15</sup> N and <sup>2</sup> H NMR Relaxation Studies of R. capsulatus Ferrocyanide. <i>Biochemistry</i> , 2001, 40, 6559-6569.	2.5	42
23	Conservation of Side-Chain Dynamics Within a Protein Family. <i>Journal of the American Chemical Society</i> , 2009, 131, 6322-6323.	13.7	42
24	Segmental Motions, Not a Two-State Concerted Switch, Underlie Allostery in CheY. <i>Structure</i> , 2012, 20, 1363-1373.	3.3	40
25	Monitoring Aromatic Picosecond to Nanosecond Dynamics in Proteins via <sup>13</sup> C Relaxation: Expanding Perturbation Mapping of the Rigidifying Core Mutation, V54A, in Eglin c. <i>Biochemistry</i> , 2008, 47, 4876-4886.	2.5	35
26	Increased Rigidity of Eglin c at Acidic pH: Evidence from NMR Spin Relaxation and MD Simulations. <i>Biochemistry</i> , 2003, 42, 13856-13868.	2.5	30
27	Nuclear Magnetic Resonance Study of the Role of M42 in the Solution Dynamics of <i>Escherichia coli</i> Dihydrofolate Reductase. <i>Biochemistry</i> , 2010, 49, 1606-1615.	2.5	30
28	Multi-Timescale Dynamics Study of FKBP12 Along the Rapamycin-mTOR Binding Coordinate. <i>Journal of Molecular Biology</i> , 2011, 405, 378-394.	4.2	30
29	Colocalization of Fast and Slow Timescale Dynamics in the Allosteric Signaling Protein CheY. <i>Journal of Molecular Biology</i> , 2013, 425, 2372-2381.	4.2	30
30	Backbone and Side Chain Dynamics of Mutant Calmodulin~Peptide Complexes. <i>Biochemistry</i> , 2005, 44, 12627-12639.	2.5	29
31	The Effect of Protein Mass Modulation on Human Dihydrofolate Reductase. <i>Biochemistry</i> , 2016, 55, 1100-1106.	2.5	27
32	Structure and Dynamics of the G121V Dihydrofolate Reductase Mutant: Lessons from a Transition-State Inhibitor Complex. <i>PLoS ONE</i> , 2012, 7, e33252.	2.5	24
33	Mg <sup>2+</sup> Binds to the Surface of Thymidylate Synthase and Affects Hydride Transfer at the Interior Active Site. <i>Journal of the American Chemical Society</i> , 2013, 135, 7583-7592.	13.7	21
34	Contrasting roles of dynamics in protein allostery: NMR and structural studies of CheY and the third PDZ domain from PSD-95. <i>Biophysical Reviews</i> , 2015, 7, 217-226.	3.2	21
35	An Ancestral Tryptophanyl-tRNA Synthetase Precursor Achieves High Catalytic Rate Enhancement without Ordered Ground-State Tertiary Structures. <i>ACS Chemical Biology</i> , 2016, 11, 1661-1668.	3.4	21
36	Hydrophobic Core Mutations in Cl2 Globally Perturb Fast Side-Chain Dynamics Similarly without Regard to Position. <i>Biochemistry</i> , 2008, 47, 8566-8576.	2.5	18

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37	Bacterial Thymidylate Synthase Binds Two Molecules of Substrate and Cofactor without Cooperativity. <i>Journal of the American Chemical Society</i> , 2015, 137, 14260-14263.	13.7	18
38	Chemical shift imprint of intersubunit communication in a symmetric homodimer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9533-9538.	7.1	17
39	Protein Mass Effects on Formate Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2017, 139, 17405-17413.	13.7	17
40	Isotopic Labeling of Formate Dehydrogenase Perturbs the Protein Dynamics. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10403-10409.	2.6	14
41	Detection of Native-State Nonadditivity in Double Mutant Cycles via Hydrogen Exchange. <i>Journal of the American Chemical Society</i> , 2010, 132, 8010-8019.	13.7	11
42	Thermodynamic and NMR Assessment of Ligand Cooperativity and Intersubunit Communication in Symmetric Dimers: Application to Thymidylate Synthase. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 47.	3.5	11
43	Positive Cooperativity in Substrate Binding by Human Thymidylate Synthase. <i>Biophysical Journal</i> , 2019, 117, 1074-1084.	0.5	11
44	Widespread Perturbation of Function, Structure, and Dynamics by a Conservative Single-Atom Substitution in Thymidylate Synthase. <i>Biochemistry</i> , 2016, 55, 5702-5713.	2.5	9
45	Inter-Active Site Communication Mediated by the Dimer Interface $\hat{\imath}^2$ -Sheet in the Half-the-Sites Enzyme, Thymidylate Synthase. <i>Biochemistry</i> , 2019, 58, 3302-3313.	2.5	9
46	Backbone and ILV methyl resonance assignments of <i>E. coli</i> thymidylate synthase bound to cofactor and a nucleotide analogue. <i>Biomolecular NMR Assignments</i> , 2014, 8, 195-199.	0.8	8
47	Quality of Life in Vulvar Lichen Sclerosus Patients Treated With Long-Term Topical Corticosteroids. <i>Journal of Lower Genital Tract Disease</i> , 2021, 25, 158-165.	1.9	8
48	Chronic Hepatitis C Infection in Children: Current Treatment and New Therapies. <i>Journal of Clinical and Translational Hepatology</i> , 2015, 3, 36-41.	1.4	8
49	Exploring the role of structure and dynamics in the function of chymotrypsin inhibitor 2. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 916-924.	2.6	6
50	Visualizing an Allosteric Intermediate Using CuAAC Stabilization of an NMR Mixed Labeled Dimer. <i>ACS Chemical Biology</i> , 2021, 16, 2766-2775.	3.4	4
51	Backbone and ILVM methyl resonance assignments of human thymidylate synthase in apo and substrate bound forms. <i>Biomolecular NMR Assignments</i> , 2021, 15, 197-202.	0.8	3
52	Balancing the benefits of antimicrobial therapy with the threat of antimicrobial resistance development. <i>Journal of Cystic Fibrosis</i> , 2021, 20, 377-378.	0.7	1
53	Monitoring Side-Chain Dynamics of Proteins Using $^2\text{H}$ Relaxation. <i>Methods in Molecular Biology</i> , 2014, 1084, 3-27.	0.9	1