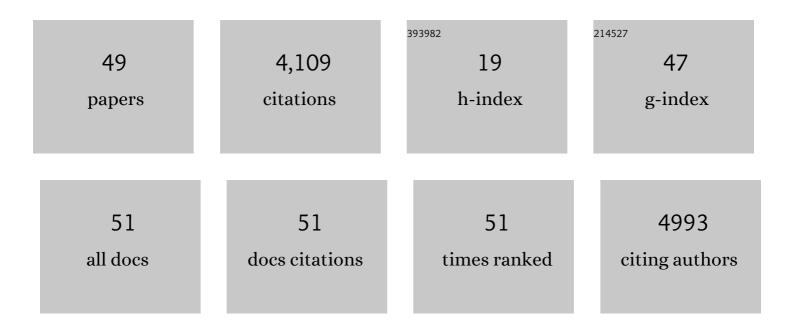
David D Boehr

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The role of dynamic conformational ensembles in biomolecular recognition. Nature Chemical Biology, 2009, 5, 789-796.	3.9	1,649
2	The Dynamic Energy Landscape of Dihydrofolate Reductase Catalysis. Science, 2006, 313, 1638-1642.	6.0	877
3	An NMR Perspective on Enzyme Dynamics. Chemical Reviews, 2006, 106, 3055-3079.	23.0	424
4	How Do Proteins Interact?. Science, 2008, 320, 1429-1430.	6.0	174
5	Millisecond timescale fluctuations in dihydrofolate reductase are exquisitely sensitive to the bound ligands. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1373-1378.	3.3	133
6	Motif D of Viral RNA-Dependent RNA Polymerases Determines Efficiency and Fidelity of Nucleotide Addition. Structure, 2012, 20, 1519-1527.	1.6	80
7	A Distal Mutation Perturbs Dynamic Amino Acid Networks in Dihydrofolate Reductase. Biochemistry, 2013, 52, 4605-4619.	1.2	77
8	The RNA Template Channel of the RNA-Dependent RNA Polymerase as a Target for Development of Antiviral Therapy of Multiple Genera within a Virus Family. PLoS Pathogens, 2015, 11, e1004733.	2.1	55
9	Biophysical and computational methods to analyze amino acid interaction networks in proteins. Computational and Structural Biotechnology Journal, 2016, 14, 245-251.	1.9	55
10	Conformational Relaxation following Hydride Transfer Plays a Limiting Role in Dihydrofolate Reductase Catalysisâ€. Biochemistry, 2008, 47, 9227-9233.	1.2	53
11	Long-Range Interaction Networks in the Function and Fidelity of Poliovirus RNA-Dependent RNA Polymerase Studied by Nuclear Magnetic Resonance. Biochemistry, 2010, 49, 9361-9371.	1.2	46
12	Amino Acid Networks in a (β/α) ₈ Barrel Enzyme Change during Catalytic Turnover. Journal of the American Chemical Society, 2014, 136, 6818-6821.	6.6	41
13	Long-Range Interactions in the Alpha Subunit of Tryptophan Synthase Help to Coordinate Ligand Binding, Catalysis, and Substrate Channeling. Journal of Molecular Biology, 2013, 425, 1527-1545.	2.0	36
14	Vaccine-derived Mutation in Motif D of Poliovirus RNA-dependent RNA Polymerase Lowers Nucleotide Incorporation Fidelity. Journal of Biological Chemistry, 2013, 288, 32753-32765.	1.6	35
15	Structural Dynamics as a Contributor to Error-prone Replication by an RNA-dependent RNA Polymerase. Journal of Biological Chemistry, 2014, 289, 36229-36248.	1.6	31
16	Engineered control of enzyme structural dynamics and function. Protein Science, 2018, 27, 825-838.	3.1	30
17	Conformational selection and induced changes along the catalytic cycle of <i>Escherichia coli</i> dihydrofolate reductase. Proteins: Structure, Function and Bioinformatics, 2012, 80, 2369-2383.	1.5	20
18	The RNA-Binding Site of Poliovirus 3C Protein Doubles as a Phosphoinositide-Binding Domain. Structure, 2017, 25, 1875-1886.e7.	1.6	20

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19	Severing of a hydrogen bond disrupts amino acid networks in the catalytically active state of the alpha subunit of tryptophan synthase. Protein Science, 2015, 24, 484-494.	3.1	19
20	Assigning methyl resonances for protein solution-state NMR studies. Methods, 2018, 148, 88-99.	1.9	18
21	Triphosphate Reorientation of the Incoming Nucleotide as a Fidelity Checkpoint in Viral RNA-dependent RNA Polymerases. Journal of Biological Chemistry, 2017, 292, 3810-3826.	1.6	16
22	Differences in the catalytic mechanisms of mesophilic and thermophilic indole-3-glycerol phosphate synthase enzymes at their adaptive temperatures. Biochemical and Biophysical Research Communications, 2012, 418, 324-329.	1.0	14
23	Rational Control of Poliovirus RNA-Dependent RNA Polymerase Fidelity by Modulating Motif-D Loop Conformational Dynamics. Biochemistry, 2019, 58, 3735-3743.	1.2	14
24	Promiscuity in proteinâ€RNA interactions: Conformational ensembles facilitate molecular recognition in the spliceosome. BioEssays, 2012, 34, 174-180.	1.2	13
25	2′-C-methylated nucleotides terminate virus RNA synthesis by preventing active site closure of the viral RNA-dependent RNA polymerase. Journal of Biological Chemistry, 2019, 294, 16897-16907.	1.6	12
26	Engineering Allostery into Proteins. Advances in Experimental Medicine and Biology, 2019, 1163, 359-384.	0.8	12
27	Loopâ€loop interactions govern multiple steps in indoleâ€3â€glycerol phosphate synthase catalysis. Protein Science, 2014, 23, 302-311.	3.1	11
28	During Transitions Proteins Make Fleeting Bonds. Cell, 2009, 139, 1049-1051.	13.5	10
29	Targeting structural dynamics of the RNA-dependent RNA polymerase for anti-viral strategies. Current Opinion in Virology, 2014, 9, 194-200.	2.6	10
30	Long-Range Communication between Different Functional Sites in the Picornaviral 3C Protein. Structure, 2016, 24, 509-517.	1.6	10
31	Coordinated Network Changes across the Catalytic Cycle of Alpha Tryptophan Synthase. Structure, 2019, 27, 1405-1415.e5.	1.6	9
32	The Picornavirus Precursor 3CD Has Different Conformational Dynamics Compared to 3Cpro and 3Dpol in Functionally Relevant Regions. Viruses, 2021, 13, 442.	1.5	9
33	Structure, Dynamics, and Fidelity of RNA-Dependent RNA Polymerases. Nucleic Acids and Molecular Biology, 2014, , 309-333.	0.2	9
34	Functional Identification of the General Acid and Base in the Dehydration Step of Indole-3-glycerol Phosphate Synthase Catalysis. Journal of Biological Chemistry, 2013, 288, 26350-26356.	1.6	8
35	Controlling Active Site Loop Dynamics in the (β/α)8 Barrel Enzyme Indole-3-Glycerol Phosphate Synthase. Catalysts, 2016, 6, 129.	1.6	8
36	Energy and Enzyme Activity Landscapes of Yeast Chorismate Mutase at Cellular Concentrations of Allosteric Effectors. Biochemistry, 2019, 58, 4058-4069.	1.2	7

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37	Distinct conformational dynamics and allosteric networks in alpha tryptophan synthase during active catalysis. Protein Science, 2021, 30, 543-557.	3.1	7
38	Substitution of a Surface-Exposed Residue Involved in an Allosteric Network Enhances Tryptophan Synthase Function in Cells. Frontiers in Molecular Biosciences, 2021, 8, 679915.	1.6	7
39	Millisecond Timescale Motions Connect Amino Acid Interaction Networks in Alpha Tryptophan Synthase. Frontiers in Molecular Biosciences, 2018, 5, 92.	1.6	6
40	Different Solvent and Conformational Entropy Contributions to the Allosteric Activation and Inhibition Mechanisms of Yeast Chorismate Mutase. Biochemistry, 2020, 59, 2528-2540.	1.2	6
41	Nucleobase but not Sugar Fidelity is Maintained in the Sabin I RNA-Dependent RNA Polymerase. Viruses, 2015, 7, 5571-5586.	1.5	4
42	Conformational Transitions in Yeast Chorismate Mutase Important for Allosteric Regulation as Identified by Nuclear Magnetic Resonance Spectroscopy. Journal of Molecular Biology, 2022, 434, 167531.	2.0	4
43	The Ins and Outs of Viral RNA Polymerase Translocation. Journal of Molecular Biology, 2014, 426, 1373-1376.	2.0	2
44	NMR Methods of Characterizing Biomolecular Structural Dynamics and Conformational Ensembles. Methods, 2018, 148, 1-3.	1.9	2
45	Driving Protein Conformational Cycles in Physiology and Disease: "Frustrated―Amino Acid Interaction Networks Define Dynamic Energy Landscapes. BioEssays, 2020, 42, 2000092.	1.2	2
46	Catalyst-Based Biomolecular Logic Gates. Catalysts, 2022, 12, 712.	1.6	2
47	Allosteric and dynamic control of RNA-dependent RNA polymerase function and fidelity. The Enzymes, 2021, 49, 149-193.	0.7	0
48	Triphosphate Reâ€orientation of the Incoming Nucleotide as A Fidelity Checkpoint in Viral RNAâ€dependent RNA Polymerases. FASEB Journal, 2015, 29, 572.14.	0.2	0
49	The evolution of dynamic amino acid interaction networks around the catalytic cycle of α tryptophan synthase. FASEB Journal, 2018, 32, 527.6.	0.2	0