

# Kathleen Shive Matthews

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Lactose Repressor Protein: Functional Properties and Structure. <i>Progress in Molecular Biology and Translational Science</i> , 1997, 58, 127-164.	1.9	76
2	Thermodynamic analysis of the lactose repressor-operator DNA interaction. <i>Biochemistry</i> , 1986, 25, 3852-3858.	1.2	73
3	Dissociation of the lactose repressor protein tetramer using high hydrostatic pressure. <i>Biochemistry</i> , 1986, 25, 8308-8315.	1.2	66
4	Dissociation of the lactose repressor-operator DNA complex: effects of size and sequence context of operator-containing DNA. <i>Biochemistry</i> , 1986, 25, 3845-3852.	1.2	61
5	Characterization and modification of a monomeric mutant of the lactose repressor protein. <i>Biochemistry</i> , 1986, 25, 5474-5478.	1.2	47
6	Predicted structure of the sugar-binding site of the lac repressor. <i>Nature</i> , 1984, 310, 429-430.	13.7	45
7	Plasticity of quaternary structure: Twenty-two ways to form a LacI dimer. <i>Protein Science</i> , 2001, 10, 262-276.	3.1	43
8	Fine-tuning function: Correlation of hinge domain interactions with functional distinctions between LacI and PurR. <i>Protein Science</i> , 2002, 11, 778-794.	3.1	40
9	Extrinsic Interactions Dominate Helical Propensity in Coupled Binding and Folding of the Lactose Repressor Protein Hinge Helix. <i>Biochemistry</i> , 2006, 45, 5896-5906.	1.2	39
10	Integrated Insights from Simulation, Experiment, and Mutational Analysis Yield New Details of LacI Function. <i>Biochemistry</i> , 2005, 44, 11201-11213.	1.2	32
11	Formation of mixed disulfide adducts at cysteine-281 of the lactose repressor protein affects operator and inducer binding parameters. <i>Biochemistry</i> , 1986, 25, 5468-5474.	1.2	31
12	Comparison of Simulated and Experimentally Determined Dynamics for a Variant of the LacI DNA-Binding Domain, Nlac-P. <i>Biophysical Journal</i> , 1998, 74, 413-421.	0.2	23
13	Protein-DNA Binding Correlates with Structural Thermostability for the Full-Length Human p53 Protein. <i>Biochemistry</i> , 2001, 40, 3847-3858.	1.2	18
14	Identification and characterization of aspartate residues that play key roles in the allosteric regulation of a transcription factor: aspartate 274 is essential for inducer binding in lac repressor. <i>Biochemistry</i> , 1994, 33, 3607-3616.	1.2	17
15	A mutant lactose repressor with altered inducer and operator binding parameters. <i>Journal of Molecular Biology</i> , 1985, 183, 43-51.	2.0	12
16	Characterization of Mutants Affecting the KRK Sequence in the Carboxyl-terminal Domain of lac Repressor. <i>Journal of Biological Chemistry</i> , 1995, 270, 10640-10649.	1.6	10