

Maurice R Eftink

List of Publications by Year in descending order

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65
papers

4,499
citations

159358

30
h-index

143772

57
g-index

65
all docs

65
docs citations

65
times ranked

3856
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescence quenching studies with proteins. <i>Analytical Biochemistry</i> , 1981, 114, 199-227.	1.1	1,718
2	Fluorescence Techniques for Studying Protein Structure. <i>Methods of Biochemical Analysis</i> , 2006, 35, 127-205.	0.2	350
3	Cyclodextrin-adamantanecarboxylate inclusion complexes: studies of the variation in cavity size. <i>The Journal of Physical Chemistry</i> , 1985, 89, 326-332.	2.9	263
4	[11] Fluorescence methods for studying equilibrium macromolecule-ligand interactions. <i>Methods in Enzymology</i> , 1997, 278, 221-257.	0.4	214
5	Photophysics of indole derivatives: experimental resolution of La and Lb transitions and comparison with theory. <i>The Journal of Physical Chemistry</i> , 1990, 94, 3469-3479.	2.9	147
6	Indole fluorescence quenching studies on proteins and model systems: use of the inefficient quencher succinimide. <i>Biochemistry</i> , 1984, 23, 3891-3899.	1.2	141
7	Fluorescence Studies with Tryptophan Analogs: Excited State Interactions Involving the Side Chain Amino Group. <i>The Journal of Physical Chemistry</i> , 1995, 99, 5713-5723.	2.9	110
8	Cyclodextrin-adamantanecarboxylate inclusion complexes: A model system for the hydrophobic effect. <i>Biopolymers</i> , 1982, 21, 1153-1166.	1.2	109
9	A Hydrophobic Quencher of Protein Fluorescence: 2,2,2-Trichloroethanol. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1977, 491, 473-481.	1.7	83
10	Fluorescence Quenching: Theory and Applications. , 2002, , 53-126.		81
11	Fluorescence Quenching Reactions. , 1991, , 1-41.		64
12	[22] Use of multiple spectroscopic methods to monitor equilibrium unfolding of proteins. <i>Methods in Enzymology</i> , 1995, 259, 487-512.	0.4	64
13	[12] Fluorescence methods for studying kinetics of protein-folding reactions. <i>Methods in Enzymology</i> , 1997, 278, 258-286.	0.4	63
14	Does the fluorescence quencher acrylamide bind to proteins?. <i>BBA - Proteins and Proteomics</i> , 1987, 916, 343-349.	2.1	55
15	[27] Analysis of multidimensional spectroscopic data to monitor unfolding of proteins. <i>Methods in Enzymology</i> , 1994, 240, 615-645.	0.4	53
16	Thermodynamics of the Unfolding and Spectroscopic Properties of the V66W Mutant of Staphylococcal Nuclease and Its 136 Fragment. <i>Biochemistry</i> , 1996, 35, 8084-8094.	1.2	51
17	Global Analysis of the Acid-Induced and Urea-Induced Unfolding of Staphylococcal Nuclease and Two of Its Variants. <i>Biochemistry</i> , 1997, 36, 1129-1140.	1.2	51
18	Biosynthetic incorporation of tryptophan analogues into staphylococcal nuclease: Effect of 5-hydroxytryptophan and 7-azatryptophan on structure and stability. <i>Protein Science</i> , 1997, 6, 689-697.	3.1	49

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19	Fluorescence and conformational stability studies of Staphylococcus nuclease and its mutants, including the less stable nuclease-concanavalin A hybrids. <i>Biochemistry</i> , 1991, 30, 1193-1199.	1.2	47
20	Spectral displacement techniques for studying the binding of spectroscopically transparent ligands to cyclodextrins. <i>Analytical Biochemistry</i> , 1986, 154, 400-408.	1.1	44
21	Effects of temperature on the fluorescence intensity and anisotropy decays of Staphylococcal nuclease and the less stable nuclease-conA-SG28 mutant. <i>Biochemistry</i> , 1991, 30, 8945-8953.	1.2	43
22	Incorporation of Tryptophan Analogues into Staphylococcal Nuclease, Its V66W Mutant, and $\hat{\Gamma}^{137\hat{a}\sim 149}$ Fragment: A Spectroscopic Study. <i>Biochemistry</i> , 1998, 37, 8938-8946.	1.2	43
23	Phase-resolved spectral measurements with several two tryptophan containing proteins. <i>Biochemistry</i> , 1987, 26, 8338-8346.	1.2	41
24	Viscosity dependence of the solute quenching of the tryptophanyl fluorescence of proteins. <i>Biophysical Chemistry</i> , 1986, 25, 277-282.	1.5	38
25	STUDIES OF THE EFFICIENCY and MECHANISM OF FLUORESCENCE QUENCHING REACTIONS USING ACRYLAMIDE and SUCCINIMIDE AS QUENCHERS. <i>Photochemistry and Photobiology</i> , 1987, 46, 23-30.	1.3	38
26	Fluorescence quenching of the buried tryptophan residue of cod parvalbumin. <i>Biophysical Chemistry</i> , 1985, 22, 173-180.	1.5	35
27	Thermodynamics of protein unfolding: questions pertinent to testing the validity of the two-state model. <i>Biophysical Chemistry</i> , 1997, 64, 175-197.	1.5	35
28	Incorporation of Tryptophan Analogues into Staphylococcal Nuclease: A Stability toward Thermal and Guanidine-HCl Induced Unfolding. <i>Biochemistry</i> , 1998, 37, 8947-8953.	1.2	34
29	Local anesthetic-phospholipid interactions. The pH dependence of the binding of dibucaine to dimyristoylphosphatidylcholine vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985, 813, 137-140.	1.4	32
30	Fluorescence lifetime and solute quenching studies with the single tryptophan containing protein parvalbumin from codfish. <i>Biochemistry</i> , 1989, 28, 382-391.	1.2	32
31	The Unfolding of trp Aporepressor as a Function of pH: Evidence for an Unfolding Intermediate. <i>Biochemistry</i> , 1994, 33, 10220-10228.	1.2	32
32	Local anesthetic-phospholipid interactions. Effects of ionic strength, temperature, and phospholipid mixtures on the binding of dibucaine to phospholipids. <i>Biophysical Chemistry</i> , 1993, 46, 1-11.	1.5	31
33	Intrinsic Fluorescence of Proteins. , 2002, , 1-15.		31
34	Fluorescence lifetime and anisotropy studies with liver alcohol dehydrogenase and its complexes. <i>Biochemistry</i> , 1986, 25, 6631-6637.	1.2	29
35	Use of fluorescence spectroscopy as thermodynamics tool. <i>Methods in Enzymology</i> , 2000, 323, 459-473.	0.4	28
36	Fluorescence quenching of Trp-314 of liver alcohol dehydrogenase by oxygen. <i>Biophysical Chemistry</i> , 1984, 20, 201-207.	1.5	21

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37	Thermodynamic studies of the interaction of trp aporepressor with tryptophan analogs. Biophysical Chemistry, 1994, 49, 233-239.	1.5	21
38	INTRAMOLECULAR FLUORESCENCE QUENCHING IN COVALENT ACRYLAMIDE-INDOLE ADDUCTS. Photochemistry and Photobiology, 1989, 49, 725-729.	1.3	15
39	Effect of micelle diameter on tryptophan dynamics in an amphipathic helical peptide in phosphatidylcholine. Biochemistry, 1989, 28, 8403-8410.	1.2	13
40	Fluorescence studies of a local anesthetic-phospholipid interaction. Biophysical Chemistry, 1993, 46, 13-19.	1.5	13
41	Frequency domain fluorescence studies of yeast phosphoglycerate kinase and its ternary complex. FEBS Journal, 1987, 167, 513-518.	0.2	12
42	Perchlorate-induced conformational transition of Staphylococcal nuclease: evidence for an equilibrium unfolding intermediate. Archives of Biochemistry and Biophysics, 2004, 431, 119-123.	1.4	12
43	Activation of Horse Liver Alcohol Dehydrogenase upon Substitution of Tryptophan 314 at the Dimer Interface. Archives of Biochemistry and Biophysics, 1998, 358, 369-376.	1.4	11
44	Equilibrium unfolding of dimeric and engineered monomeric forms of λ Cro (F58W) repressor and the effect of added salts: evidence for the formation of folded monomer induced by sodium perchlorate. Archives of Biochemistry and Biophysics, 2005, 434, 93-107.	1.4	11
45	Pressure dependence of fluorescence quenching reactions in proteins. Biophysical Chemistry, 1988, 32, 121-130.	1.5	10
46	Quenching of the intrinsic fluorescence of liver alcohol dehydrogenase by the alkaline transition and by coenzyme binding. Biochemistry, 1986, 25, 6620-6624.	1.2	9
47	Frequency-domain fluorescence studies of an extracellular metalloproteinase of Staphylococcus aureus. BBA - Proteins and Proteomics, 1987, 915, 331-341.	2.1	8
48	Fluorescence studies of phosphoribulokinase, a light-regulated, chloroplastic enzyme. Archives of Biochemistry and Biophysics, 1988, 260, 267-272.	1.4	8
49	Characterization of the role of side-chain interactions in the binding of ligands to apo trp repressor: pH dependence studies. Biophysical Chemistry, 1997, 66, 43-55.	1.5	7
50	Deviations from Michaelis-Menten kinetics in continuous flow assays: Consideration of unreactant cases. Analytical Biochemistry, 1981, 111, 291-304.	1.1	6
51	Transient effects in the solute quenching of tryptophan residues in proteins. , 1990, 1204, 406.		6
52	Studies of the unfolding of an unstable mutant of staphylococcal nuclease: Evidence for low temperature unfolding and compactness of the high temperature unfolded state. Proteins: Structure, Function and Bioinformatics, 1997, 28, 227-240.	1.5	6
53	Evidence for dual La and Lb emission in 5-methylindole. Journal of Fluorescence, 1994, 4, 165-168.	1.3	5
54	Stereoselective Synthesis of <i>cis</i> -2 and <i>trans</i> -2-(Indol-3-yl) Cyclopropyl Amines, Carboxylic Acids, and Esters. Synthetic Communications, 1998, 28, 3787-3794.	1.1	5

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55	A fluorescence and NMR relaxation study of thermally-induced conformational changes in liver alcohol dehydrogenase. BBA - Proteins and Proteomics, 1987, 913, 210-218.	2.1	4
56	FLUORESCENCE STUDIES WITH HUMAN EPIDERMAL GROWTH FACTOR. Photochemistry and Photobiology, 1992, 55, 29-34.	1.3	4
57	Synthesis of E and Z Diastereoisomers of Benzyl Methyl-2-[3-(N-Substituted)indolyl] Cyclopropane-1,1-dicarboxylates and Their Stereoselective Reductive Cleavage. Synthetic Communications, 1996, 26, 3503-3509.	1.1	4
58	RAPID EQUILIBRATION OF OXYGEN IN FLUORESCENCE QUENCHING REACTIONS. Photochemistry and Photobiology, 1989, 50, 425-427.	1.3	3
59	Fluorescence studies with potato carboxypeptidase inhibitor. BBA - Proteins and Proteomics, 1990, 1041, 311-316.	2.1	2
60	Oxygen fluorescence quenching studies with single tryptophan-containing proteins. Journal of Fluorescence, 1994, 4, 187-193.	1.3	2
61	Fluorescence studies with malate dehydrogenase from Bradyrhizobium japonicum 311B-143 bacteroids: A two-tryptophan containing protein. Archives of Biochemistry and Biophysics, 1990, 283, 102-106.	1.4	1
62	<title>Comparison of fluorescence properties of wild type and the W15F mutant of horse liver alcohol dehydrogenase</title>. , 1994, , .		1
63	Fluorescence Quenching And Multiple-Frequency Phase Fluorometry In Peptide-Lipid Micelles. , 1988, 0909, 442.		0
64	Effect Of Hydrostatic Pressure On Fluorescence Reactions In Proteins. Proceedings of SPIE, 1988, 0909, 389.	0.8	0
65	Time-resolved fluorescence studies of ribonuclease T1 in reversed micelles. Journal of Fluorescence, 1996, 6, 169-175.	1.3	0