

J Matthew Mauro

List of Publications by Year in descending order

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32
papers

9,746
citations

304743

22
h-index

454955

30
g-index

33
all docs

33
docs citations

33
times ranked

8213
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term multiple color imaging of live cells using quantum dot bioconjugates. <i>Nature Biotechnology</i> , 2003, 21, 47-51.	17.5	1,928
2	Self-Assembly of CdSe/ZnS Quantum Dot Bioconjugates Using an Engineered Recombinant Protein. <i>Journal of the American Chemical Society</i> , 2000, 122, 12142-12150.	13.7	1,675
3	Self-assembled nanoscale biosensors based on quantum dot FRET donors. <i>Nature Materials</i> , 2003, 2, 630-638.	27.5	1,541
4	Fluorescence Resonance Energy Transfer Between Quantum Dot Donors and Dye-Labeled Protein Acceptors. <i>Journal of the American Chemical Society</i> , 2004, 126, 301-310.	13.7	1,255
5	Multiplexed Toxin Analysis Using Four Colors of Quantum Dot Fluororeagents. <i>Analytical Chemistry</i> , 2004, 76, 684-688.	6.5	652
6	Avidin: A Natural Bridge for Quantum Dot-Antibody Conjugates. <i>Journal of the American Chemical Society</i> , 2002, 124, 6378-6382.	13.7	518
7	Conjugation of Luminescent Quantum Dots with Antibodies Using an Engineered Adaptor Protein To Provide New Reagents for Fluoroimmunoassays. <i>Analytical Chemistry</i> , 2002, 74, 841-847.	6.5	430
8	Reversible Modulation of Quantum Dot Photoluminescence Using a Protein-Bound Photochromic Fluorescence Resonance Energy Transfer Acceptor. <i>Journal of the American Chemical Society</i> , 2004, 126, 30-31.	13.7	253
9	Yeast cytochrome c peroxidase: mutagenesis and expression in <i>Escherichia coli</i> show tryptophan-51 is not the radical site in compound I. <i>Biochemistry</i> , 1987, 26, 351-360.	2.5	187
10	Heme pocket interactions in cytochrome c peroxidase studied by site-directed mutagenesis and resonance Raman spectroscopy. <i>Biochemistry</i> , 1988, 27, 5477-5485.	2.5	176
11	Tryptophan-191 → phenylalanine, a proximal-side mutation in yeast cytochrome c peroxidase that strongly affects the kinetics of ferrocyanide oxidation. <i>Biochemistry</i> , 1988, 27, 6243-6256.	2.5	165
12	X-ray structures of recombinant yeast cytochrome c peroxidase and three heme-cleft mutants prepared by site-directed mutagenesis. <i>Biochemistry</i> , 1990, 29, 7160-7173.	2.5	145
13	Preparation of Quantum Dot-Biotin Conjugates and Their Use in Immunochromatography Assays. <i>Analytical Chemistry</i> , 2003, 75, 4043-4049.	6.5	120
14	A Fluorescence Resonance Energy Transfer Sensor Based on Maltose Binding Protein. <i>Bioconjugate Chemistry</i> , 2003, 14, 909-918.	3.6	111
15	Phage-displayed peptides as biosensor reagents. <i>Journal of Molecular Recognition</i> , 2000, 13, 382-387.	2.1	108
16	Compound I radical in site-directed mutants of cytochrome c peroxidase as probed by electron paramagnetic resonance and electron-nuclear double resonance. <i>Biochemistry</i> , 1991, 30, 1986-1996.	2.5	103
17	Recent ENDOR and Pulsed Electron Paramagnetic Resonance Studies of Cytochrome c Peroxidase → Compound I and Its Site-Directed Mutants. <i>Israel Journal of Chemistry</i> , 1989, 29, 85-92.	2.3	65
18	Analysis of aqueous 2,4,6-trinitrotoluene (TNT) using a fluorescent displacement immunoassay. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 375, 471-475.	3.7	55

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19	Comparative proton NMR analysis of wild-type cytochrome c peroxidase from yeast, the recombinant enzyme from Escherichia coli, and an Asp-235 .fwdarw. Asn-235 mutant. Biochemistry, 1990, 29, 8797-8804.	2.5	50
20	General Strategy for Biosensor Design and Construction Employing Multifunctional Surface-Tethered Components. Analytical Chemistry, 2004, 76, 5620-5629.	6.5	37
21	Detection of 2,4,6-Trinitrotoluene in Environmental Samples Using a Homogeneous Fluoroimmunoassay. Environmental Science & Technology, 2003, 37, 4733-4736.	10.0	31
22	Fluoroimmunoassays Using Antibody-Conjugated Quantum Dots. , 2005, 303, 019-034.		30
23	Reaction of ferrous cytochrome c peroxidase with dioxygen: site-directed mutagenesis provides evidence for rapid reduction of dioxygen by intramolecular electron transfer from the compound I radical site. Biochemistry, 1992, 31, 2789-2797.	2.5	24
24	Colloidal Semiconductor Quantum Dot Conjugates in Biosensing. , 2002, , 537-569.		24
25	The Effect of the Asn82Asp Mutation in Yeast Cytochrome c Peroxidase Studied by Proton NMR Spectroscopy. FEBS Journal, 1994, 224, 81-87.	0.2	18
26	Use of a Cyanine Dye as a Reporter Probe in Reagentless Maltose Sensors Based on E. coli Maltose Binding Protein. Analytical Letters, 2004, 37, 191-202.	1.8	14
27	Proton NMR Studies of Cytochrome c Peroxidase Mutant N82A: Hyperfine Resonance Assignments, Identification of Two Interconverting Enzyme Species, Quantitating the Rate of Interconversion, and Determination of Equilibrium Constants. Biochemistry, 1995, 34, 15496-15503.	2.5	11
28	Temperature, pH, and solvent isotope effects on cytochrome c peroxidase mutant N82A studied by proton NMR. The Protein Journal, 2000, 19, 535-542.	1.1	4
29	A comparative study of electrochemically and fluorometrically addressed molecular reporter groups: effects of protein microenvironment. Biosensors and Bioelectronics, 2003, 19, 373-382.	10.1	3
30	Phage-displayed peptides as biosensor reagents. Journal of Molecular Recognition, 2000, 13, 382-387.	2.1	2
31	Bioconjugates of Luminescent CdSe-ZnS Quantum Dots with Engineered Recombinant Proteins: Novel Self-Assembled Tools for Biosensing. Materials Research Society Symposia Proceedings, 2000, 642, 281.	0.1	1
32	Quantum Dot Bioconjugates as Energy Donors in Fluorescence Resonance Energy Transfer Assays. Materials Research Society Symposia Proceedings, 2003, 773, 791.	0.1	0