David M Jameson

List of Publications by Year
in descending order

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124 papers	5,522 citations	76294 40 h-index	95218 68 g-index
127 all docs	127 docs citations	127 times ranked	5064 citing authors

#	Article	IF	Citations
1	Fluorescence Polarization/Anisotropy in Diagnostics and Imaging. Chemical Reviews, 2010, 110, 2685-2708.	23.0	516
2	The Measurement and Analysis of Heterogeneous Emissions by Multifrequency Phase and Modulation Fluorometry. Applied Spectroscopy Reviews, 1984, 20, 55-106.	3.4	410
3	Fit-free analysis of fluorescence lifetime imaging data using the phasor approach. Nature Protocols, 2018, 13, 1979-2004.	5.5	217
4	Safety and efficacy of omega-3 fatty acids in the nutrition of very low birth weight infants: Soy oil and marine oil supplementation of formula. Journal of Pediatrics, 1994, 124, 612-620.	0.9	172
5	TRYPTOPHAN EMISSION FROM HUMAN HEMOGLOBIN AND ITS ISOLATED SUBUNITS. Photochemistry and Photobiology, 1980, 31, 1-4.	1.3	153
6	[12] Fluorescence anisotropy applied to biomolecular interactions. Methods in Enzymology, 1995, 246, 283-300.	0.4	149
7	A Multifrequency Phase Fluorometer Using the Harmonic Content of a Mode-Locked Laser. Instrumentation Science and Technology, 1985, 14, 225-250.	0.9	118
8	Synergistic Activation of Dynamin GTPase by Grb2 and Phosphoinositides. Journal of Biological Chemistry, 1998, 273, 3791-3797.	1.6	117
9	[1] Fluorescence: Basic concepts, practical aspects, and some anecdotes. Methods in Enzymology, 2003, 360, 1-43.	0.4	108
10	[18] Fluorescent nucleotide analogs: Synthesis and applications. Methods in Enzymology, 1997, 278, 363-390.	0.4	102
11	Orbital Control of the Color and Excited State Properties of Formylated and Fluorinated Derivatives of Azuleneâ€. Journal of Physical Chemistry A, 2003, 107, 3295-3299.	1.1	94
12	Thermodynamic properties of ligand binding by monoclonal anti-fluorescyl antibodies. Biochemistry, 1986, 25, 4602-4609.	1.2	93
13	Resolution of the pH-dependent heterogeneous fluorescence decay of tryptophan by phase and modulation measurements. The Journal of Physical Chemistry, 1981, 85, 953-958.	2.9	90
14	Effect of docosahexaenoic acid on membrane fluidity and function in intact cultured Y-79 retinoblastoma cells. Archives of Biochemistry and Biophysics, 1992, 294, 564-570.	1.4	88
15	Quantification of Proteinâ€“Protein Interactions Using Fluorescence Polarization. Methods, 1999, 19, 222-233.	1.9	87
16	Fluorescence polarization: measurements with a photonâ€counting photometer. Review of Scientific Instruments, 1978, 49, 510-514.	0.6	85
17	Fluorescence Polarization: Past, Present and Future. Combinatorial Chemistry and High Throughput Screening, 2003, 6, 167-176.	0.6	84
18	Singlet Excited State Dynamics of Tetrakis(4-N-methylpyridyl)porphine Associated with DNA Nucleotides. Journal of Physical Chemistry B, 1997, 101, 1444-1450.	1.2	78

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19	Applications of phasors to in vitro time-resolved fluorescence measurements. Analytical Biochemistry, 2011, 410, 62-69.	1.1	78
20	Time-resolved fluorescence studies on site-directed mutants of human serum albumin. FEBS Letters, 1997, 408, 67-70.	1.3	74
21	Time-resolved methods in biophysics. 8. Frequency domain fluorometry: applications to intrinsic protein fluorescence. Photochemical and Photobiological Sciences, 2008, 7, 1301-1312.	1.6	72
22	Dynamin 2 Mutants Linked to Centronuclear Myopathies Form Abnormally Stable Polymers. Journal of Biological Chemistry, 2010, 285, 22753-22757.	1.6	71
23	Structural and Biochemical Characterization of a Fluorogenic Rhodamine-Labeled Malarial Protease Substrate. Biochemistry, 2002, 41, 12244-12252.	1.2	70
24	The Phasor Plot: A Universal Circle to Advance Fluorescence Lifetime Analysis and Interpretation. Annual Review of Biophysics, 2021, 50, 575-593.	4.5	67
25	Number and Brightness Analysis of LRRK2 Oligomerization in Live Cells. Biophysical Journal, 2012, 102, L41-L43.	0.2	66
26	Fluorescence fluctuation spectroscopy: ushering in a new age of enlightenment for cellular dynamics. Biophysical Reviews, 2009, 1, 105-118.	1.5	57
27	Tetramethylrhodamine Dimer Formation as a Spectroscopic Probe of the Conformation of Escherichia coli Ribosomal Protein L7/L12 Dimers. Journal of Biological Chemistry, 1996, 271, 7568-7573.	1.6	53
28	Probing the Nucleotide Binding Sites of Axonemal Dynein with the Fluorescent Nucleotide Analogue 2â€˜(3â€˜)-O-(-N-Methylanthraniloyl)-adenosine 5â€˜-Triphosphateâ€. Biochemistry, 1998, 37, 9862-9869.	1.2	52
29	Applications of phasor plots to in vitro protein studies. Analytical Biochemistry, 2011, 410, 70-76.	1.1	52
30	Mutations in a Specific Human Serum Albumin Thyroxine Binding Site Define the Structural Basis of Familial Dysalbuminemic Hyperthyroxinemia. Journal of Biological Chemistry, 1996, 271, 19110-19117.	1.6	51
31	Correlation between self-association modes and GTPase activation of dynamin. The Protein Journal, 1999, 18, 277-290.	1.1	51
32	Fluorescence Polarization/Anisotropy Approaches to Study Proteinâ€“Ligand Interactions: Effects of Errors and Uncertainties. , 2005, 305, 301-322.		50
33	LAURDAN since Weber: The Quest for Visualizing Membrane Heterogeneity. Accounts of Chemical Research, 2021, 54, 976-987.	7.6	50
34	The Mechanism of GTP Hydrolysis by Dynamin II:Â A Transient Kinetic Studyâ€. Biochemistry, 2000, 39, 7188-7196.	1.2	49
35	New approach to phase and modulation resolved spectra. Analytical Chemistry, 1985, 57, 1694-1697.	3.2	47
36	Detection of Tryptophan to Tryptophan Energy Transfer in Proteins. Protein Journal, 2004, 23, 79-83.	0.7	47

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37	A multidimensional phasor approach reveals LAURDAN photophysics in NIH-3T3 cell membranes. Scientific Reports, 2017, 7, 9215.	1.6	47
38	Rotational and Conformational Dynamics ofEscherichia coliRibosomal Protein L7/L12â€. Biochemistry, 1996, 35, 16672-16679.	1.2	46
39	Modulation of Pig Kidney Na+/K+-ATPase Activity by Cholesterol:â€‰ Role of Hydration. Biochemistry, 2000, 39, 10928-10935.	1.2	46
40	Dimer/Monomer Equilibrium and Domain Separations ofEscherichia coliRibosomal Protein L7/L12â€. Biochemistry, 1996, 35, 16680-16686.	1.2	44
41	Intrinsic fluorescence of elongation factor Tu in its complexes with GDP and elongation factor Ts. Biochemistry, 1987, 26, 3894-3901.	1.2	43
42	Macromolecular arrangement in the aminoacyl-tRNA.cntdot.elongation factor Tu.cntdot.GTP ternary complex. A fluorescence energy transfer study. Biochemistry, 1995, 34, 7904-7912.	1.2	43
43	Time-resolved fluorescence studies on NADH bound to mitochondrial malate dehydrogenase. BBA - Proteins and Proteomics, 1989, 994, 187-190.	2.1	42
44	Oligomerization State of Dynamin 2 in Cell Membranes Using TIRF andÂNumber and Brightness Analysis. Biophysical Journal, 2011, 100, L15-L17.	0.2	42
45	Model-free methods to study membrane environmental probes: a comparison of the spectral phasor and generalized polarization approaches. Methods and Applications in Fluorescence, 2015, 3, 047001.	1.1	41
46	A method for on-line background subtraction in frequency domain fluorometry. Journal of Fluorescence, 1991, 1, 153-162.	1.3	40
47	Enhancement of dynamin polymerization and GTPase activity by Arc/Arg3.1. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1310-1318.	1.1	40
48	Dipolar relaxations in glycerol: a dynamic fluorescence study of 4-[2'-(dimethylamino)-6'-naphthoyl]cyclohexanecarboxylic acid (DANCA). Journal of the American Chemical Society, 1987, 109, 2354-2357.	6.6	37
49	Palmitoylation and Membrane Binding of Arc/Arg3.1: A Potential Role in Synaptic Depression. Biochemistry, 2018, 57, 520-524.	1.2	37
50	Solution dynamics of p21ras proteins bound with fluorescent nucleotides: A time-resolved fluorescence study. Biochemistry, 1993, 32, 13575-13583.	1.2	35
51	Apohorseradish Peroxidase Unfolding and Refolding: Intrinsic Tryptophan Fluorescence Studies. Biophysical Journal, 1999, 76, 443-450.	0.2	33
52	Resolution of 4 components in the same pixel in FLIM images using the phasor approach. Methods and Applications in Fluorescence, 2020, 8, 035001.	1.1	33
53	Dimeric Endophilin A2 Stimulates Assembly and GTPase Activity ofÂDynamin 2. Biophysical Journal, 2011, 100, 729-737.	0.2	31
54	Molecular Dynamics of the Anti-Fluorescein 4-4-20 Antigen-Binding Fragment. 2. Time-Resolved Fluorescence Spectroscopy. Biochemistry, 1995, 34, 6975-6984.	1.2	30

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55	Time-resolved fluorescence studies on the ternary complex formed between bacterial elongation factor Tu, guanosine 5'-triphosphate, and phenylalanyl-tRNAPhe. Biochemistry, 1989, 28, 4109-4117.	1.2	28
56	Conformational Modulation of Electron Transfer within Electrostatic Porphyrin:Â CytochromecComplexes. Journal of Physical Chemistry B, 1997, 101, 8012-8020.	1.2	28
57	Oligomerization and kinetic mechanism of the dynamin GTPase. European Biophysics Journal, 2002, 31, 275-282.	1.2	28
58	Fluorescence spectroscopy in biochemistry: teaching basic principles with visual demonstrations. Biochemistry and Molecular Biology Education, 2001, 29, 60-65.	0.5	27
59	Tubulin equilibrium unfolding followed by time-resolved fluorescence and fluorescence correlation spectroscopy. Protein Science, 2004, 13, 81-88.	3.1	27
60	Folding and Hydrodynamics of a DNA i-Motif from the c-MYC Promoter Determined by Fluorescent Cytidine Analogs. Biophysical Journal, 2014, 107, 1703-1711.	0.2	27
61	Time-Resolved Fluorescence in Biology and Biochemistry. , 1991, , 105-133.		27
62	The 2â€²-O- and 3â€²-O-Cy3-EDA-ATP(ADP) Complexes with Myosin Subfragment-1 are Spectroscopically Distinct. Biophysical Journal, 2003, 84, 634-642.	0.2	26
63	Yeast Ribosomal Stalk Heterogeneity In Vivo Shown by Two-Photon FCS and Molecular Brightness Analysis. Biophysical Journal, 2008, 94, 2884-2890.	0.2	25
64	Fluorescence characterization of chemical microenvironments in hydrophobically modified chitosan. Carbohydrate Polymers, 2009, 77, 695-702.	5.1	25
65	FLUORESCENCE PROPERTIES OF PORPHYRINâ€GLOBIN FROM HUMAN HEMOGLOBIN. Photochemistry and Photobiology, 1980, 32, 727-731.	1.3	24
66	Depolarization after resonance energy transfer (DARET): A sensitive fluorescence-based assay for botulinum neurotoxin protease activity. Analytical Biochemistry, 2011, 413, 36-42.	1.1	24
67	Bipolar averaging circuit for enhancing signal-to-noise ratios in recorded spectra. Analytical Chemistry, 1976, 48, 1424-1426.	3.2	23
68	Steady-State Fluorescence Polarization/Anisotropy for the Study of Protein Interactions. Methods in Molecular Biology, 2014, 1076, 29-42.	0.4	22
69	Spectral Properties of Environmentally Sensitive Probes Associated with Horseradish Peroxidaseâ€. Biochemistry, 1996, 35, 973-979.	1.2	21
70	Excitedâ€state lifetime studies of the three tryptophan residues in the Nâ€lobe of human serum transferrin. Protein Science, 2010, 19, 99-110.	3.1	21
71	Conformational Dynamics and Temperature Dependence of Photoinduced Electron Transfer within Self-Assembled Coproporphyrin:Cytochrome c Complexes. Biophysical Journal, 2003, 84, 4135-4143.	0.2	20
72	Effects of Surface Passivation on Silicon Nanoparticle Photoluminescence. Chemistry Letters, 2003, 32, 1194-1195.	0.7	20

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73	A mutation associated with centronuclear myopathy enhances the size and stability of dynamin 2 complexes in cells. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 315-321.	1.1	20
74	G-quadruplex structure and stability illuminated by 2-aminopurine phasor plots. Nucleic Acids Research, 2012, 40, 4203-4215.	6.5	19
75	A simple digital integrator for real-time display of spectral areas. Analytical Biochemistry, 1977, 79, 623-626.	1.1	18
76	Interaction of a fluorescent analog of GDP with elongation factor Tu: steady-state and time-resolved fluorescence studies. Biochemistry, 1987, 26, 3902-3907.	1.2	18
77	APPLICATION OF TIME-RESOLVED FLUOROMETRY TO THE RESOLUTION OF PORPHYRIN-PHOTOPRODUCT MIXTURES. Photochemistry and Photobiology, 1988, 47, 787-790.	1.3	17
78	Time-resolved fluorescence studies on protoporphyrin IX-apohorseradish peroxidase. BBA - Proteins and Proteomics, 1989, 997, 206-210.	2.1	17
79	Frequency-domain fluorescence spectroscopy using 280-nm and 300-nm light-emitting diodes: Measurement of proteins and protein-related fluorophores. Analytical Biochemistry, 2005, 344, 298-300.	1.1	17
80	Fluorescence-Based Assays. Progress in Medicinal Chemistry, 2005, 43, 19-48.	4.1	17
81	Studies on the Dissociation and Urea-Induced Unfolding of FtsZ Support the Dimer Nucleus Polymerization Mechanism. Biophysical Journal, 2012, 102, 2176-2185.	0.2	17
82	Amyloid oligomerization of the Parkinson's disease related protein Î±â€synuclein impacts on its curvatureâ€membrane sensitivity. Journal of Neurochemistry, 2018, 147, 541-556.	2.1	17
83	Aggregation states of mitochondrial malate dehydrogenase. Protein Science, 1998, 7, 2184-2189.	3.1	16
84	Fluorescence spectroscopy in biochemistry: teaching basic principles with visual demonstrations. Biochemistry and Molecular Biology Education, 2001, 29, 60-65.	0.5	16
85	TRYPTOPHAN FLUORESCENCE LIFETIMES AS A FUNCTION OF EXCITATION WAVELENGTH. Photochemistry and Photobiology, 1979, 30, 479-481.	1.3	15
86	Site-Directed Mutants of Rat Testis Fructose 6-Phosphate, 2-Kinase/Fructose 2,6-Bisphosphatase:Â Localization of Conformational Alterations Induced by Ligand Bindingâ€. Biochemistry, 1998, 37, 14057-14064.	1.2	15
87	Oxygen diffusion through hemoglobin and HbdesFe. FEBS Letters, 1981, 126, 191-194.	1.3	14
88	Investigations of proteinâ€“protein interactions using time-resolved fluorescence and phasors. Methods, 2013, 59, 278-286.	1.9	14
89	Single tryptophan mutants of FtsZ: Nucleotide binding/exchange and conformational transitions. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1193-1200.	1.1	14
90	Dynamic aspects of the heme-binding site in phylogenetically distant myoglobins. BBA - Proteins and Proteomics, 1987, 913, 150-154.	2.1	13

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91	Characterization of enzymeâ€“polymer interaction using fluorescence. Journal of Materials Chemistry, 2006, 16, 4107-4109.	6.7	13
92	The Proline/Arginine-Rich Domain Is a Major Determinant of Dynamin Self-Activation. Biochemistry, 2010, 49, 10592-10594.	1.2	13
93	Temperature Dependence of Photoinduced Electron Transfer within Self-Assembled Uroporphyrinâ€'CytochromecComplexes. Journal of Physical Chemistry B, 2000, 104, 973-977.	1.2	12
94	Examination of elongation factor Tu for aluminum fluoride binding sites using fluorescence and19F-NMR methodologies. FEBS Letters, 1991, 278, 225-228.	1.3	11
95	Reversible unfolding of fructose 6â€phosphate, 2â€kinase:fructose 2,6â€bisphosphatase. Protein Science, 1994, 3, 1245-1252.	3.1	11
96	Enzymatic and fluorescence studies of four singleâ€tryptophan mutants of rat testis fructose 6â€phosphate,2â€kinase:fructose 2,6â€bisphosphatase. Protein Science, 1996, 5, 904-913.	3.1	11
97	Characterization of FÃ¶rster resonance energy transfer in a botulinum neurotoxin protease assay. Analytical Biochemistry, 2011, 413, 43-49.	1.1	11
98	Fluorescence Fluctuation Spectroscopy Approaches to the Study of Receptors in Live Cells. Methods in Enzymology, 2013, 519, 87-113.	0.4	11
99	Fluorescence resonance energy transfer and molecular modeling studies on 4',6-diamidino-2-phenylindole (DAPI) complexes with tubulin. Protein Science, 2006, 15, 410-419.	3.1	10
100	Scanning fluorescence correlation spectroscopy comes full circle. Methods, 2018, 140-141, 52-61.	1.9	10
101	Characterization of esterase activity from an Acetomicrobium hydrogeniformans enzyme with high structural stability in extreme conditions. Extremophiles, 2018, 22, 781-793.	0.9	10
102	Characterization of clostridium botulinum neurotoxin serotype A (BoNT/A) and fibroblast growth factor receptor interactions using novel receptor dimerization assay. Scientific Reports, 2021, 11, 7832.	1.6	10
103	OXYGEN DIFFUSION THROUGH HORSERADISH PEROXIDASE. Photochemistry and Photobiology, 1990, 51, 487-489.	1.3	9
104	Ground-and Excited-State Characterization of an Electrostatic Complex between Tetrakis-(4-Sulfonatophenyl)porphyrin and 16-Pyrimidinium Crown-4. Photochemistry and Photobiology, 1999, 69, 429-434.	1.3	9
105	Palmitoylated Proteins in Dendritic Spine Remodeling. Frontiers in Synaptic Neuroscience, 2020, 12, 22.	1.3	9
106	Application of Three-Photon Excitation FCS to the Study of Protein Oligomerization. Journal of Physical Chemistry B, 2014, 118, 14627-14631.	1.2	8
107	Environmental Factors Modulating the Stability and Enzymatic Activity of the Petrotoga mobilis Esterase (PmEst). PLoS ONE, 2016, 11, e0158146.	1.1	8
108	Membrane Remodeling by Arc/Arg3.1. Frontiers in Molecular Biosciences, 2021, 8, 630625.	1.6	8

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109	Oxygen penetration and diffusion into myoglobin revealed by quenching of zincprotoporphyrin IX fluorescence. Biophysical Chemistry, 1995, 54, 143-154.	1.5	7
110	Frequency Domain Fluorometry: Theory and Application. Methods in Molecular Biology, 2014, 1076, 77-95.	0.4	7
111	Oxygen diffusion near the heme binding site of horseradish peroxidase. Biochemical and Biophysical Research Communications, 1991, 178, 104-109.	1.0	6
112	Oligomeric State and Mode of Self-Association ofThermotoga maritimaRibosomal Stalk Protein L12 in Solutionâ€. Biochemistry, 2005, 44, 3298-3305.	1.2	6
113	Investigation of the conformational flexibility of DGAT1 peptides using tryptophan fluorescence. Methods and Applications in Fluorescence, 2015, 3, 025003.	1.1	6
114	Gain-of-Function Properties of a Dynamin 2 Mutant Implicated in Charcot-Marie-Tooth Disease. Frontiers in Cellular Neuroscience, 2021, 15, 745940.	1.8	6
115	Differential Mobility and Self-Association of Arc/Arg3.1 in the Cytoplasm and Nucleus of Living Cells. ACS Chemical Neuroscience, 2022, 13, 876-882.	1.7	6
116	Spectroscopic characterization of two soluble transducers from the Archaeon Halobacterium salinarum. The Protein Journal, 1999, 18, 269-275.	1.1	5
117	Fluorescence resonance energy transfer studies on anthrax lethal toxin. FEBS Letters, 2003, 550, 175-178.	1.3	5
118	Higher Order Oligomerization of the Licensing ORC4 Protein Is Required for Polar Body Extrusion in Murine Meiosis. Journal of Cellular Biochemistry, 2017, 118, 2941-2949.	1.2	5
119	Fluorescence Lifetime Phasor Analysis of the Decamerâ€“Dimer Equilibrium of Human Peroxiredoxin 1. International Journal of Molecular Sciences, 2022, 23, 5260.	1.8	5
120	Temperature dependence of photoinduced electron transfer within self-associated porphyrin: guanine monophosphate complexes. Chemical Physics Letters, 2001, 350, 515-521.	1.2	4
121	Amino acid profiles and liposomes: Their role as chemosensory information carriers in the marine environment. Journal of Chemical Ecology, 1992, 18, 2107-2115.	0.9	3
122	Application of Phasor Plots to Analysis of Fluorophore Heterogeneity, Excited State Reactions and Protein Conformations. Biophysical Journal, 2010, 98, 750a.	0.2	1
123	<orgname lang = "en">Academic Life of Gregorio Weber and Fluorescence of Biomolecules</orgname>. Seibutsu Butsuri, 2001, 41, 114-116.	0.0	0
124	Medical school hotline: the research mission of the cell and molecular biology department and program at the john a. Burns school of medicine. Hawai'i Journal of Medicine & Public Health: A Journal of Asia Pacific Medicine & Public Health, 2015, 74, 150-3.	0.4	0