

# David M Jameson

## List of Publications by Year in descending order

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124  
papers

5,522  
citations

76326

40  
h-index

95266

68  
g-index

127  
all docs

127  
docs citations

127  
times ranked

5064  
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential Mobility and Self-Association of Arc/Arg3.1 in the Cytoplasm and Nucleus of Living Cells. ACS Chemical Neuroscience, 2022, 13, 876-882.	3.5	6
2	Fluorescence Lifetime Phasor Analysis of the Decamer Dimer Equilibrium of Human Peroxiredoxin 1. International Journal of Molecular Sciences, 2022, 23, 5260.	4.1	5
3	LAURDAN since Weber: The Quest for Visualizing Membrane Heterogeneity. Accounts of Chemical Research, 2021, 54, 976-987.	15.6	50
4	Membrane Remodeling by Arc/Arg3.1. Frontiers in Molecular Biosciences, 2021, 8, 630625.	3.5	8
5	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.	3.3	10
6	The Phasor Plot: A Universal Circle to Advance Fluorescence Lifetime Analysis and Interpretation. Annual Review of Biophysics, 2021, 50, 575-593.	10.0	67
7	Gain-of-Function Properties of a Dynamin 2 Mutant Implicated in Charcot-Marie-Tooth Disease. Frontiers in Cellular Neuroscience, 2021, 15, 745940.	3.7	6
8	Palmitoylated Proteins in Dendritic Spine Remodeling. Frontiers in Synaptic Neuroscience, 2020, 12, 22.	2.5	9
9	Resolution of 4 components in the same pixel in FLIM images using the phasor approach. Methods and Applications in Fluorescence, 2020, 8, 035001.	2.3	33
10	Scanning fluorescence correlation spectroscopy comes full circle. Methods, 2018, 140-141, 52-61.	3.8	10
11	Palmitoylation and Membrane Binding of Arc/Arg3.1: A Potential Role in Synaptic Depression. Biochemistry, 2018, 57, 520-524.	2.5	37
12	Fit-free analysis of fluorescence lifetime imaging data using the phasor approach. Nature Protocols, 2018, 13, 1979-2004.	12.0	217
13	Characterization of esterase activity from an Acetomicrobium hydrogeniformans enzyme with high structural stability in extreme conditions. Extremophiles, 2018, 22, 781-793.	2.3	10
14	Amyloid oligomerization of the Parkinson's disease related protein $\alpha$ -synuclein impacts on its curvature membrane sensitivity. Journal of Neurochemistry, 2018, 147, 541-556.	3.9	17
15	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.	2.6	5
16	A multidimensional phasor approach reveals LAURDAN photophysics in NIH-3T3 cell membranes. Scientific Reports, 2017, 7, 9215.	3.3	47
17	Environmental Factors Modulating the Stability and Enzymatic Activity of the Petrotoga mobilis Esterase (PmEst). PLoS ONE, 2016, 11, e0158146.	2.5	8
18	Investigation of the conformational flexibility of DGAT1 peptides using tryptophan fluorescence. Methods and Applications in Fluorescence, 2015, 3, 025003.	2.3	6

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19	Model-free methods to study membrane environmental probes: a comparison of the spectral phasor and generalized polarization approaches. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 047001.	2.3	41
20	Enhancement of dynamin polymerization and GTPase activity by Arc/Arg3.1. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1310-1318.	2.4	40
21	Medical school hotline: the research mission of the cell and molecular biology department and program at the john a. Burns school of medicine. <i>Hawai'i Journal of Medicine &amp; Public Health: A Journal of Asia Pacific Medicine &amp; Public Health</i> , 2015, 74, 150-3.	0.4	0
22	Application of Three-Photon Excitation FCS to the Study of Protein Oligomerization. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14627-14631.	2.6	8
23	Steady-State Fluorescence Polarization/Anisotropy for the Study of Protein Interactions. <i>Methods in Molecular Biology</i> , 2014, 1076, 29-42.	0.9	22
24	Folding and Hydrodynamics of a DNA i-Motif from the c-MYC Promoter Determined by Fluorescent Cytidine Analogs. <i>Biophysical Journal</i> , 2014, 107, 1703-1711.	0.5	27
25	Single tryptophan mutants of FtsZ: Nucleotide binding/exchange and conformational transitions. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1193-1200.	2.3	14
26	A mutation associated with centronuclear myopathy enhances the size and stability of dynamin 2 complexes in cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 315-321.	2.4	20
27	Frequency Domain Fluorometry: Theory and Application. <i>Methods in Molecular Biology</i> , 2014, 1076, 77-95.	0.9	7
28	Fluorescence Fluctuation Spectroscopy Approaches to the Study of Receptors in Live Cells. <i>Methods in Enzymology</i> , 2013, 519, 87-113.	1.0	11
29	Investigations of protein-protein interactions using time-resolved fluorescence and phasors. <i>Methods</i> , 2013, 59, 278-286.	3.8	14
30	Studies on the Dissociation and Urea-Induced Unfolding of FtsZ Support the Dimer Nucleus Polymerization Mechanism. <i>Biophysical Journal</i> , 2012, 102, 2176-2185.	0.5	17
31	Number and Brightness Analysis of LRRK2 Oligomerization in Live Cells. <i>Biophysical Journal</i> , 2012, 102, L41-L43.	0.5	66
32	G-quadruplex structure and stability illuminated by 2-aminopurine phasor plots. <i>Nucleic Acids Research</i> , 2012, 40, 4203-4215.	14.5	19
33	Oligomerization State of Dynamin 2 in Cell Membranes Using TIRF and Number and Brightness Analysis. <i>Biophysical Journal</i> , 2011, 100, L15-L17.	0.5	42
34	Dimeric Endophilin A2 Stimulates Assembly and GTPase Activity of Dynamin 2. <i>Biophysical Journal</i> , 2011, 100, 729-737.	0.5	31
35	Applications of phasors to in vitro time-resolved fluorescence measurements. <i>Analytical Biochemistry</i> , 2011, 410, 62-69.	2.4	78
36	Applications of phasor plots to in vitro protein studies. <i>Analytical Biochemistry</i> , 2011, 410, 70-76.	2.4	52

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37	Depolarization after resonance energy transfer (DARET): A sensitive fluorescence-based assay for botulinum neurotoxin protease activity. <i>Analytical Biochemistry</i> , 2011, 413, 36-42.	2.4	24
38	Characterization of Förster resonance energy transfer in a botulinum neurotoxin protease assay. <i>Analytical Biochemistry</i> , 2011, 413, 43-49.	2.4	11
39	Excited-state lifetime studies of the three tryptophan residues in the N-lobe of human serum transferrin. <i>Protein Science</i> , 2010, 19, 99-110.	7.6	21
40	Dynamin 2 Mutants Linked to Centronuclear Myopathies Form Abnormally Stable Polymers. <i>Journal of Biological Chemistry</i> , 2010, 285, 22753-22757.	3.4	71
41	The Proline/Arginine-Rich Domain Is a Major Determinant of Dynamin Self-Activation. <i>Biochemistry</i> , 2010, 49, 10592-10594.	2.5	13
42	Fluorescence Polarization/Anisotropy in Diagnostics and Imaging. <i>Chemical Reviews</i> , 2010, 110, 2685-2708.	47.7	516
43	Application of Phasor Plots to Analysis of Fluorophore Heterogeneity, Excited State Reactions and Protein Conformations. <i>Biophysical Journal</i> , 2010, 98, 750a.	0.5	1
44	Fluorescence fluctuation spectroscopy: ushering in a new age of enlightenment for cellular dynamics. <i>Biophysical Reviews</i> , 2009, 1, 105-118.	3.2	57
45	Fluorescence characterization of chemical microenvironments in hydrophobically modified chitosan. <i>Carbohydrate Polymers</i> , 2009, 77, 695-702.	10.2	25
46	Yeast Ribosomal Stalk Heterogeneity In Vivo Shown by Two-Photon FCS and Molecular Brightness Analysis. <i>Biophysical Journal</i> , 2008, 94, 2884-2890.	0.5	25
47	Time-resolved methods in biophysics. 8. Frequency domain fluorometry: applications to intrinsic protein fluorescence. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 1301-1312.	2.9	72
48	Characterization of enzyme-polymer interaction using fluorescence. <i>Journal of Materials Chemistry</i> , 2006, 16, 4107-4109.	6.7	13
49	Fluorescence resonance energy transfer and molecular modeling studies on 4',6-diamidino-2-phenylindole (DAPI) complexes with tubulin. <i>Protein Science</i> , 2006, 15, 410-419.	7.6	10
50	Frequency-domain fluorescence spectroscopy using 280-nm and 300-nm light-emitting diodes: Measurement of proteins and protein-related fluorophores. <i>Analytical Biochemistry</i> , 2005, 344, 298-300.	2.4	17
51	Fluorescence-Based Assays. <i>Progress in Medicinal Chemistry</i> , 2005, 43, 19-48.	10.4	17
52	Oligomeric State and Mode of Self-Association of <i>Thermotoga maritima</i> Ribosomal Stalk Protein L12 in Solution. <i>Biochemistry</i> , 2005, 44, 3298-3305.	2.5	6
53	Fluorescence Polarization/Anisotropy Approaches to Study Protein-Ligand Interactions: Effects of Errors and Uncertainties. , 2005, 305, 301-322.		50
54	Detection of Tryptophan to Tryptophan Energy Transfer in Proteins. <i>Protein Journal</i> , 2004, 23, 79-83.	1.6	47

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55	Tubulin equilibrium unfolding followed by time-resolved fluorescence and fluorescence correlation spectroscopy. <i>Protein Science</i> , 2004, 13, 81-88.	7.6	27
56	Orbital Control of the Color and Excited State Properties of Formylated and Fluorinated Derivatives of Azulene. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3295-3299.	2.5	94
57	Fluorescence resonance energy transfer studies on anthrax lethal toxin. <i>FEBS Letters</i> , 2003, 550, 175-178.	2.8	5
58	The 2 <sup>+</sup> -O- and 3 <sup>+</sup> -O-Cy3-EDA-ATP(ADP) Complexes with Myosin Subfragment-1 are Spectroscopically Distinct. <i>Biophysical Journal</i> , 2003, 84, 634-642.	0.5	26
59	Conformational Dynamics and Temperature Dependence of Photoinduced Electron Transfer within Self-Assembled Coproporphyrin:Cytochrome c Complexes. <i>Biophysical Journal</i> , 2003, 84, 4135-4143.	0.5	20
60	[1] Fluorescence: Basic concepts, practical aspects, and some anecdotes. <i>Methods in Enzymology</i> , 2003, 360, 1-43.	1.0	108
61	Effects of Surface Passivation on Silicon Nanoparticle Photoluminescence. <i>Chemistry Letters</i> , 2003, 32, 1194-1195.	1.3	20
62	Fluorescence Polarization: Past, Present and Future. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2003, 6, 167-176.	1.1	84
63	Structural and Biochemical Characterization of a Fluorogenic Rhodamine-Labeled Malarial Protease Substrate. <i>Biochemistry</i> , 2002, 41, 12244-12252.	2.5	70
64	Oligomerization and kinetic mechanism of the dynamin GTPase. <i>European Biophysics Journal</i> , 2002, 31, 275-282.	2.2	28
65	Temperature dependence of photoinduced electron transfer within self-associated porphyrin: guanine monophosphate complexes. <i>Chemical Physics Letters</i> , 2001, 350, 515-521.	2.6	4
66	Fluorescence spectroscopy in biochemistry: teaching basic principles with visual demonstrations. <i>Biochemistry and Molecular Biology Education</i> , 2001, 29, 60-65.	1.2	16
67	Fluorescence spectroscopy in biochemistry: teaching basic principles with visual demonstrations. <i>Biochemistry and Molecular Biology Education</i> , 2001, 29, 60-65.	1.2	27
68	<orgname lang = "en">Academic Life of Gregorio Weber and Fluorescence of Biomolecules</orgname>. <i>Seibutsu Butsuri</i> , 2001, 41, 114-116.	0.1	0
69	The Mechanism of GTP Hydrolysis by Dynamin II: A Transient Kinetic Study. <i>Biochemistry</i> , 2000, 39, 7188-7196.	2.5	49
70	Temperature Dependence of Photoinduced Electron Transfer within Self-Assembled Uroporphyrin~CytochromecComplexes. <i>Journal of Physical Chemistry B</i> , 2000, 104, 973-977.	2.6	12
71	Modulation of Pig Kidney Na <sup>+</sup> /K <sup>+</sup> -ATPase Activity by Cholesterol: Role of Hydration. <i>Biochemistry</i> , 2000, 39, 10928-10935.	2.5	46
72	Ground-and Excited-State Characterization of an Electrostatic Complex between Tetrakis-(4-Sulfonatophenyl)porphyrin and 16-Pyrimidinium Crown-4. <i>Photochemistry and Photobiology</i> , 1999, 69, 429-434.	2.5	9

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73	Spectroscopic characterization of two soluble transducers from the Archaeon <i>Halobacterium salinarum</i> . <i>The Protein Journal</i> , 1999, 18, 269-275.	1.1	5
74	Correlation between self-association modes and GTPase activation of dynamin. <i>The Protein Journal</i> , 1999, 18, 277-290.	1.1	51
75	Apo-horseradish Peroxidase Unfolding and Refolding: Intrinsic Tryptophan Fluorescence Studies. <i>Biophysical Journal</i> , 1999, 76, 443-450.	0.5	33
76	Quantification of Protein-Protein Interactions Using Fluorescence Polarization. <i>Methods</i> , 1999, 19, 222-233.	3.8	87
77	Aggregation states of mitochondrial malate dehydrogenase. <i>Protein Science</i> , 1998, 7, 2184-2189.	7.6	16
78	Probing the Nucleotide Binding Sites of Axonemal Dynein with the Fluorescent Nucleotide Analogue 2-(3'-O-(N-Methylanthraniloyl)-adenosine 5'-Triphosphate. <i>Biochemistry</i> , 1998, 37, 9862-9869.	2.5	52
79	Site-Directed Mutants of Rat Testis Fructose 6-Phosphate, 2-Kinase/Fructose 2,6-Bisphosphatase: Localization of Conformational Alterations Induced by Ligand Binding. <i>Biochemistry</i> , 1998, 37, 14057-14064.	2.5	15
80	Synergistic Activation of Dynamin GTPase by Grb2 and Phosphoinositides. <i>Journal of Biological Chemistry</i> , 1998, 273, 3791-3797.	3.4	117
81	Conformational Modulation of Electron Transfer within Electrostatic Porphyrin: Cytochrome c Complexes. <i>Journal of Physical Chemistry B</i> , 1997, 101, 8012-8020.	2.6	28
82	Time-resolved fluorescence studies on site-directed mutants of human serum albumin. <i>FEBS Letters</i> , 1997, 408, 67-70.	2.8	74
83	[18] Fluorescent nucleotide analogs: Synthesis and applications. <i>Methods in Enzymology</i> , 1997, 278, 363-390.	1.0	102
84	Singlet Excited State Dynamics of Tetrakis(4-N-methylpyridyl)porphine Associated with DNA Nucleotides. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1444-1450.	2.6	78
85	Spectral Properties of Environmentally Sensitive Probes Associated with Horseradish Peroxidase. <i>Biochemistry</i> , 1996, 35, 973-979.	2.5	21
86	Dimer/Monomer Equilibrium and Domain Separations of <i>Escherichia coli</i> Ribosomal Protein L7/L12. <i>Biochemistry</i> , 1996, 35, 16680-16686.	2.5	44
87	Rotational and Conformational Dynamics of <i>Escherichia coli</i> Ribosomal Protein L7/L12. <i>Biochemistry</i> , 1996, 35, 16672-16679.	2.5	46
88	Enzymatic and fluorescence studies of four single-tryptophan mutants of rat testis fructose 6-phosphate, 2-kinase:fructose 2,6-bisphosphatase. <i>Protein Science</i> , 1996, 5, 904-913.	7.6	11
89	Tetramethylrhodamine Dimer Formation as a Spectroscopic Probe of the Conformation of <i>Escherichia coli</i> Ribosomal Protein L7/L12 Dimers. <i>Journal of Biological Chemistry</i> , 1996, 271, 7568-7573.	3.4	53
90	Mutations in a Specific Human Serum Albumin Thyroxine Binding Site Define the Structural Basis of Familial Dysalbuminemic Hyperthyroxinemia. <i>Journal of Biological Chemistry</i> , 1996, 271, 19110-19117.	3.4	51

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91	Oxygen penetration and diffusion into myoglobin revealed by quenching of zincprotoporphyrin IX fluorescence. <i>Biophysical Chemistry</i> , 1995, 54, 143-154.	2.8	7
92	Molecular Dynamics of the Anti-Fluorescein 4-4-20 Antigen-Binding Fragment. 2. Time-Resolved Fluorescence Spectroscopy. <i>Biochemistry</i> , 1995, 34, 6975-6984.	2.5	30
93	Macromolecular arrangement in the aminoacyl-tRNA.cntdot.elongation factor Tu.cntdot.GTP ternary complex. A fluorescence energy transfer study. <i>Biochemistry</i> , 1995, 34, 7904-7912.	2.5	43
94	[12] Fluorescence anisotropy applied to biomolecular interactions. <i>Methods in Enzymology</i> , 1995, 246, 283-300.	1.0	149
95	Reversible unfolding of fructose 6â€phosphate, 2â€kinase:fructose 2,6â€bisphosphatase. <i>Protein Science</i> , 1994, 3, 1245-1252.	7.6	11
96	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. <i>Journal of Pediatrics</i> , 1994, 124, 612-620.	1.8	172
97	Solution dynamics of p21ras proteins bound with fluorescent nucleotides: A time-resolved fluorescence study. <i>Biochemistry</i> , 1993, 32, 13575-13583.	2.5	35
98	Effect of docosahexaenoic acid on membrane fluidity and function in intact cultured Y-79 retinoblastoma cells. <i>Archives of Biochemistry and Biophysics</i> , 1992, 294, 564-570.	3.0	88
99	Amino acid profiles and liposomes: Their role as chemosensory information carriers in the marine environment. <i>Journal of Chemical Ecology</i> , 1992, 18, 2107-2115.	1.8	3
100	Oxygen diffusion near the heme binding site of horseradish peroxidase. <i>Biochemical and Biophysical Research Communications</i> , 1991, 178, 104-109.	2.1	6
101	Examination of elongation factor Tu for aluminum fluoride binding sites using fluorescence and19F-NMR methodologies. <i>FEBS Letters</i> , 1991, 278, 225-228.	2.8	11
102	A method for on-line background subtraction in frequency domain fluorometry. <i>Journal of Fluorescence</i> , 1991, 1, 153-162.	2.5	40
103	Time-Resolved Fluorescence in Biology and Biochemistry. , 1991, , 105-133.		27
104	OXYGEN DIFFUSION THROUGH HORSERADISH PEROXIDASE. <i>Photochemistry and Photobiology</i> , 1990, 51, 487-489.	2.5	9
105	Time-resolved fluorescence studies on NADH bound to mitochondrial malate dehydrogenase. <i>BBA - Proteins and Proteomics</i> , 1989, 994, 187-190.	2.1	42
106	Time-resolved fluorescence studies on protoporphyrin IX-apohorseradish peroxidase. <i>BBA - Proteins and Proteomics</i> , 1989, 997, 206-210.	2.1	17
107	Time-resolved fluorescence studies on the ternary complex formed between bacterial elongation factor Tu, guanosine 5'-triphosphate, and phenylalanyl-tRNAPhe. <i>Biochemistry</i> , 1989, 28, 4109-4117.	2.5	28
108	APPLICATION OF TIME-RESOLVED FLUOROMETRY TO THE RESOLUTION OF PORPHYRIN-PHOTOPRODUCT MIXTURES. <i>Photochemistry and Photobiology</i> , 1988, 47, 787-790.	2.5	17

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109	Interaction of a fluorescent analog of GDP with elongation factor Tu: steady-state and time-resolved fluorescence studies. <i>Biochemistry</i> , 1987, 26, 3902-3907.	2.5	18
110	Dipolar relaxations in glycerol: a dynamic fluorescence study of 4-[2'-(dimethylamino)-6'-naphthoyl]cyclohexanecarboxylic acid (DANCA). <i>Journal of the American Chemical Society</i> , 1987, 109, 2354-2357.	13.7	37
111	Intrinsic fluorescence of elongation factor Tu in its complexes with GDP and elongation factor Ts. <i>Biochemistry</i> , 1987, 26, 3894-3901.	2.5	43
112	Dynamic aspects of the heme-binding site in phylogenetically distant myoglobins. <i>BBA - Proteins and Proteomics</i> , 1987, 913, 150-154.	2.1	13
113	Thermodynamic properties of ligand binding by monoclonal anti-fluorescyl antibodies. <i>Biochemistry</i> , 1986, 25, 4602-4609.	2.5	93
114	New approach to phase and modulation resolved spectra. <i>Analytical Chemistry</i> , 1985, 57, 1694-1697.	6.5	47
115	A Multifrequency Phase Fluorometer Using the Harmonic Content of a Mode-Locked Laser. <i>Instrumentation Science and Technology</i> , 1985, 14, 225-250.	1.8	118
116	The Measurement and Analysis of Heterogeneous Emissions by Multifrequency Phase and Modulation Fluorometry. <i>Applied Spectroscopy Reviews</i> , 1984, 20, 55-106.	6.7	410
117	Resolution of the pH-dependent heterogeneous fluorescence decay of tryptophan by phase and modulation measurements. <i>The Journal of Physical Chemistry</i> , 1981, 85, 953-958.	2.9	90
118	Oxygen diffusion through hemoglobin and HbdesFe. <i>FEBS Letters</i> , 1981, 126, 191-194.	2.8	14
119	TRYPTOPHAN EMISSION FROM HUMAN HEMOGLOBIN AND ITS ISOLATED SUBUNITS. <i>Photochemistry and Photobiology</i> , 1980, 31, 1-4.	2.5	153
120	FLUORESCENCE PROPERTIES OF PORPHYRIN-GLLOBIN FROM HUMAN HEMOGLOBIN. <i>Photochemistry and Photobiology</i> , 1980, 32, 727-731.	2.5	24
121	TRYPTOPHAN FLUORESCENCE LIFETIMES AS A FUNCTION OF EXCITATION WAVELENGTH. <i>Photochemistry and Photobiology</i> , 1979, 30, 479-481.	2.5	15
122	Fluorescence polarization: measurements with a photon-counting photometer. <i>Review of Scientific Instruments</i> , 1978, 49, 510-514.	1.3	85
123	A simple digital integrator for real-time display of spectral areas. <i>Analytical Biochemistry</i> , 1977, 79, 623-626.	2.4	18
124	Bipolar averaging circuit for enhancing signal-to-noise ratios in recorded spectra. <i>Analytical Chemistry</i> , 1976, 48, 1424-1426.	6.5	23