

# 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  
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127  
docs citations

127  
times ranked

5064  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescence Polarization/Anisotropy in Diagnostics and Imaging. <i>Chemical Reviews</i> , 2010, 110, 2685-2708.	47.7	516
2	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
3	Fit-free analysis of fluorescence lifetime imaging data using the phasor approach. <i>Nature Protocols</i> , 2018, 13, 1979-2004.	12.0	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. <i>Journal of Pediatrics</i> , 1994, 124, 612-620.	1.8	172
5	TRYPTOPHAN EMISSION FROM HUMAN HEMOGLOBIN AND ITS ISOLATED SUBUNITS. <i>Photochemistry and Photobiology</i> , 1980, 31, 1-4.	2.5	153
6	[12] Fluorescence anisotropy applied to biomolecular interactions. <i>Methods in Enzymology</i> , 1995, 246, 283-300.	1.0	149
7	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
8	Synergistic Activation of Dynamin GTPase by Grb2 and Phosphoinositides. <i>Journal of Biological Chemistry</i> , 1998, 273, 3791-3797.	3.4	117
9	[1] Fluorescence: Basic concepts, practical aspects, and some anecdotes. <i>Methods in Enzymology</i> , 2003, 360, 1-43.	1.0	108
10	[18] Fluorescent nucleotide analogs: Synthesis and applications. <i>Methods in Enzymology</i> , 1997, 278, 363-390.	1.0	102
11	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
12	Thermodynamic properties of ligand binding by monoclonal anti-fluorescein antibodies. <i>Biochemistry</i> , 1986, 25, 4602-4609.	2.5	93
13	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
14	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
15	Quantification of Protein-Protein Interactions Using Fluorescence Polarization. <i>Methods</i> , 1999, 19, 222-233.	3.8	87
16	Fluorescence polarization: measurements with a photon-counting photometer. <i>Review of Scientific Instruments</i> , 1978, 49, 510-514.	1.3	85
17	Fluorescence Polarization: Past, Present and Future. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2003, 6, 167-176.	1.1	84
18	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

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19	Applications of phasors to in vitro time-resolved fluorescence measurements. <i>Analytical Biochemistry</i> , 2011, 410, 62-69.	2.4	78
20	Time-resolved fluorescence studies on site-directed mutants of human serum albumin. <i>FEBS Letters</i> , 1997, 408, 67-70.	2.8	74
21	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
22	Dynamin 2 Mutants Linked to Centronuclear Myopathies Form Abnormally Stable Polymers. <i>Journal of Biological Chemistry</i> , 2010, 285, 22753-22757.	3.4	71
23	Structural and Biochemical Characterization of a Fluorogenic Rhodamine-Labeled Malarial Protease Substrate. <i>Biochemistry</i> , 2002, 41, 12244-12252.	2.5	70
24	The Phasor Plot: A Universal Circle to Advance Fluorescence Lifetime Analysis and Interpretation. <i>Annual Review of Biophysics</i> , 2021, 50, 575-593.	10.0	67
25	Number and Brightness Analysis of LRRK2 Oligomerization in Live Cells. <i>Biophysical Journal</i> , 2012, 102, L41-L43.	0.5	66
26	Fluorescence fluctuation spectroscopy: ushering in a new age of enlightenment for cellular dynamics. <i>Biophysical Reviews</i> , 2009, 1, 105-118.	3.2	57
27	Tetramethylrhodamine Dimer Formation as a Spectroscopic Probe of the Conformation of Escherichia coli Ribosomal Protein L7/L12 Dimers. <i>Journal of Biological Chemistry</i> , 1996, 271, 7568-7573.	3.4	53
28	Probing the Nucleotide Binding Sites of Axonemal Dynein with the Fluorescent Nucleotide Analogue 2â€³-(3â€³-O-(N-Methylanthraniloyl)-adenosine 5â€³-Triphosphateâ€³. <i>Biochemistry</i> , 1998, 37, 9862-9869.	2.5	52
29	Applications of phasor plots to in vitro protein studies. <i>Analytical Biochemistry</i> , 2011, 410, 70-76.	2.4	52
30	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
31	Correlation between self-association modes and GTPase activation of dynamin. <i>The Protein Journal</i> , 1999, 18, 277-290.	1.1	51
32	Fluorescence Polarization/Anisotropy Approaches to Study Proteinâ€³Ligand Interactions: Effects of Errors and Uncertainties. , 2005, 305, 301-322.		50
33	LAURDAN since Weber: The Quest for Visualizing Membrane Heterogeneity. <i>Accounts of Chemical Research</i> , 2021, 54, 976-987.	15.6	50
34	The Mechanism of GTP Hydrolysis by Dynamin II: A Transient Kinetic Studyâ€³. <i>Biochemistry</i> , 2000, 39, 7188-7196.	2.5	49
35	New approach to phase and modulation resolved spectra. <i>Analytical Chemistry</i> , 1985, 57, 1694-1697.	6.5	47
36	Detection of Tryptophan to Tryptophan Energy Transfer in Proteins. <i>Protein Journal</i> , 2004, 23, 79-83.	1.6	47

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37	A multidimensional phasor approach reveals LAURDAN photophysics in NIH-3T3 cell membranes. <i>Scientific Reports</i> , 2017, 7, 9215.	3.3	47
38	Rotational and Conformational Dynamics of <i>Escherichia coli</i> Ribosomal Protein L7/L12. <i>Biochemistry</i> , 1996, 35, 16672-16679.	2.5	46
39	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
40	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
41	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
42	Macromolecular arrangement in the aminoacyl-tRNA·elongation factor Tu·GTP ternary complex. A fluorescence energy transfer study. <i>Biochemistry</i> , 1995, 34, 7904-7912.	2.5	43
43	Time-resolved fluorescence studies on NADH bound to mitochondrial malate dehydrogenase. <i>BBA - Proteins and Proteomics</i> , 1989, 994, 187-190.	2.1	42
44	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
45	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
46	A method for on-line background subtraction in frequency domain fluorometry. <i>Journal of Fluorescence</i> , 1991, 1, 153-162.	2.5	40
47	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
48	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
49	Palmitoylation and Membrane Binding of Arc/Arg3.1: A Potential Role in Synaptic Depression. <i>Biochemistry</i> , 2018, 57, 520-524.	2.5	37
50	Solution dynamics of p21ras proteins bound with fluorescent nucleotides: A time-resolved fluorescence study. <i>Biochemistry</i> , 1993, 32, 13575-13583.	2.5	35
51	Apo horseradish Peroxidase Unfolding and Refolding: Intrinsic Tryptophan Fluorescence Studies. <i>Biophysical Journal</i> , 1999, 76, 443-450.	0.5	33
52	Resolution of 4 components in the same pixel in FLIM images using the phasor approach. <i>Methods and Applications in Fluorescence</i> , 2020, 8, 035001.	2.3	33
53	Dimeric Endophilin A2 Stimulates Assembly and GTPase Activity of Dynamin 2. <i>Biophysical Journal</i> , 2011, 100, 729-737.	0.5	31
54	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

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55	Time-resolved fluorescence studies on the ternary complex formed between bacterial elongation factor Tu, guanosine 5'-triphosphate, and phenylalanyl-tRNA <sup>Phe</sup> . <i>Biochemistry</i> , 1989, 28, 4109-4117.	2.5	28
56	Conformational Modulation of Electron Transfer within Electrostatic Porphyrin:Å Cytochrome c Complexes. <i>Journal of Physical Chemistry B</i> , 1997, 101, 8012-8020.	2.6	28
57	Oligomerization and kinetic mechanism of the dynamin GTPase. <i>European Biophysics Journal</i> , 2002, 31, 275-282.	2.2	28
58	Fluorescence spectroscopy in biochemistry: teaching basic principles with visual demonstrations. <i>Biochemistry and Molecular Biology Education</i> , 2001, 29, 60-65.	1.2	27
59	Tubulin equilibrium unfolding followed by time-resolved fluorescence and fluorescence correlation spectroscopy. <i>Protein Science</i> , 2004, 13, 81-88.	7.6	27
60	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
61	Time-Resolved Fluorescence in Biology and Biochemistry. , 1991, , 105-133.		27
62	The 2- and 3-O-Cy3-EDA-ATP(ADP) Complexes with Myosin Subfragment-1 are Spectroscopically Distinct. <i>Biophysical Journal</i> , 2003, 84, 634-642.	0.5	26
63	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
64	Fluorescence characterization of chemical microenvironments in hydrophobically modified chitosan. <i>Carbohydrate Polymers</i> , 2009, 77, 695-702.	10.2	25
65	FLUORESCENCE PROPERTIES OF PORPHYRIN-Å GLOBIN FROM HUMAN HEMOGLOBIN. <i>Photochemistry and Photobiology</i> , 1980, 32, 727-731.	2.5	24
66	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
67	Bipolar averaging circuit for enhancing signal-to-noise ratios in recorded spectra. <i>Analytical Chemistry</i> , 1976, 48, 1424-1426.	6.5	23
68	Steady-State Fluorescence Polarization/Anisotropy for the Study of Protein Interactions. <i>Methods in Molecular Biology</i> , 2014, 1076, 29-42.	0.9	22
69	Spectral Properties of Environmentally Sensitive Probes Associated with Horseradish Peroxidase-Å. <i>Biochemistry</i> , 1996, 35, 973-979.	2.5	21
70	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
71	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
72	Effects of Surface Passivation on Silicon Nanoparticle Photoluminescence. <i>Chemistry Letters</i> , 2003, 32, 1194-1195.	1.3	20

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73	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
74	G-quadruplex structure and stability illuminated by 2-aminopurine phasor plots. <i>Nucleic Acids Research</i> , 2012, 40, 4203-4215.	14.5	19
75	A simple digital integrator for real-time display of spectral areas. <i>Analytical Biochemistry</i> , 1977, 79, 623-626.	2.4	18
76	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
77	APPLICATION OF TIME-RESOLVED FLUOROMETRY TO THE RESOLUTION OF PORPHYRIN-PHOTOPRODUCT MIXTURES. <i>Photochemistry and Photobiology</i> , 1988, 47, 787-790.	2.5	17
78	Time-resolved fluorescence studies on protoporphyrin IX-aphorseradish peroxidase. <i>BBA - Proteins and Proteomics</i> , 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. <i>Analytical Biochemistry</i> , 2005, 344, 298-300.	2.4	17
80	Fluorescence-Based Assays. <i>Progress in Medicinal Chemistry</i> , 2005, 43, 19-48.	10.4	17
81	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
82	Amyloid oligomerization of the Parkinson's disease related protein $\alpha$ -synuclein impacts on its curvature-membrane sensitivity. <i>Journal of Neurochemistry</i> , 2018, 147, 541-556.	3.9	17
83	Aggregation states of mitochondrial malate dehydrogenase. <i>Protein Science</i> , 1998, 7, 2184-2189.	7.6	16
84	Fluorescence spectroscopy in biochemistry: teaching basic principles with visual demonstrations. <i>Biochemistry and Molecular Biology Education</i> , 2001, 29, 60-65.	1.2	16
85	TRYPTOPHAN FLUORESCENCE LIFETIMES AS A FUNCTION OF EXCITATION WAVELENGTH. <i>Photochemistry and Photobiology</i> , 1979, 30, 479-481.	2.5	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 Binding. <i>Biochemistry</i> , 1998, 37, 14057-14064.	2.5	15
87	Oxygen diffusion through hemoglobin and HbdesFe. <i>FEBS Letters</i> , 1981, 126, 191-194.	2.8	14
88	Investigations of protein-protein interactions using time-resolved fluorescence and phasors. <i>Methods</i> , 2013, 59, 278-286.	3.8	14
89	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
90	Dynamic aspects of the heme-binding site in phylogenetically distant myoglobins. <i>BBA - Proteins and Proteomics</i> , 1987, 913, 150-154.	2.1	13

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91	Characterization of enzyme-polymer interaction using fluorescence. <i>Journal of Materials Chemistry</i> , 2006, 16, 4107-4109.	6.7	13
92	The Proline/Arginine-Rich Domain Is a Major Determinant of Dynamin Self-Activation. <i>Biochemistry</i> , 2010, 49, 10592-10594.	2.5	13
93	Temperature Dependence of Photoinduced Electron Transfer within Self-Assembled Uroporphyrin-Cytochrome Complexes. <i>Journal of Physical Chemistry B</i> , 2000, 104, 973-977.	2.6	12
94	Examination of elongation factor Tu for aluminum fluoride binding sites using fluorescence and 19F-NMR methodologies. <i>FEBS Letters</i> , 1991, 278, 225-228.	2.8	11
95	Reversible unfolding of fructose 6-phosphate, 2-kinase:fructose 2,6-bisphosphatase. <i>Protein Science</i> , 1994, 3, 1245-1252.	7.6	11
96	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
97	Characterization of Förster resonance energy transfer in a botulinum neurotoxin protease assay. <i>Analytical Biochemistry</i> , 2011, 413, 43-49.	2.4	11
98	Fluorescence Fluctuation Spectroscopy Approaches to the Study of Receptors in Live Cells. <i>Methods in Enzymology</i> , 2013, 519, 87-113.	1.0	11
99	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
100	Scanning fluorescence correlation spectroscopy comes full circle. <i>Methods</i> , 2018, 140-141, 52-61.	3.8	10
101	Characterization of esterase activity from an <i>Acetomicrobium hydrogeniformans</i> enzyme with high structural stability in extreme conditions. <i>Extremophiles</i> , 2018, 22, 781-793.	2.3	10
102	Characterization of clostridium botulinum neurotoxin serotype A (BoNT/A) and fibroblast growth factor receptor interactions using novel receptor dimerization assay. <i>Scientific Reports</i> , 2021, 11, 7832.	3.3	10
103	OXYGEN DIFFUSION THROUGH HORSERADISH PEROXIDASE. <i>Photochemistry and Photobiology</i> , 1990, 51, 487-489.	2.5	9
104	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
105	Palmitoylated Proteins in Dendritic Spine Remodeling. <i>Frontiers in Synaptic Neuroscience</i> , 2020, 12, 22.	2.5	9
106	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
107	Environmental Factors Modulating the Stability and Enzymatic Activity of the <i>Petrogoga mobilis</i> Esterase (PmEst). <i>PLoS ONE</i> , 2016, 11, e0158146.	2.5	8
108	Membrane Remodeling by Arc/Arg3.1. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 630625.	3.5	8

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109	Oxygen penetration and diffusion into myoglobin revealed by quenching of zincprotoporphyrin IX fluorescence. <i>Biophysical Chemistry</i> , 1995, 54, 143-154.	2.8	7
110	Frequency Domain Fluorometry: Theory and Application. <i>Methods in Molecular Biology</i> , 2014, 1076, 77-95.	0.9	7
111	Oxygen diffusion near the heme binding site of horseradish peroxidase. <i>Biochemical and Biophysical Research Communications</i> , 1991, 178, 104-109.	2.1	6
112	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
113	Investigation of the conformational flexibility of DGAT1 peptides using tryptophan fluorescence. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 025003.	2.3	6
114	Gain-of-Function Properties of a Dynamin 2 Mutant Implicated in Charcot-Marie-Tooth Disease. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 745940.	3.7	6
115	Differential Mobility and Self-Association of Arc/Arg3.1 in the Cytoplasm and Nucleus of Living Cells. <i>ACS Chemical Neuroscience</i> , 2022, 13, 876-882.	3.5	6
116	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
117	Fluorescence resonance energy transfer studies on anthrax lethal toxin. <i>FEBS Letters</i> , 2003, 550, 175-178.	2.8	5
118	Higher Order Oligomerization of the Licensing ORC4 Protein Is Required for Polar Body Extrusion in Murine Meiosis. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 2941-2949.	2.6	5
119	Fluorescence Lifetime Phasor Analysis of the Decamer Dimer Equilibrium of Human Peroxiredoxin 1. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5260.	4.1	5
120	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
121	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
122	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
123	<orname lang = "en">Academic Life of Gregorio Weber and Fluorescence of Biomolecules</orname>. <i>Seibutsu Butsuri</i> , 2001, 41, 114-116.	0.1	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. <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