

Andrew H A Clayton

List of Publications by Year in descending order

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96
papers

3,094
citations

172457

29
h-index

168389

53
g-index

96
all docs

96
docs citations

96
times ranked

4321
citing authors

#	ARTICLE	IF	CITATIONS
1	Ligand-induced Dimer-Tetramer Transition during the Activation of the Cell Surface Epidermal Growth Factor Receptor-A Multidimensional Microscopy Analysis. <i>Journal of Biological Chemistry</i> , 2005, 280, 30392-30399.	3.4	232
2	Dynamic Fluorescence Anisotropy Imaging Microscopy in the Frequency Domain (rFLIM). <i>Biophysical Journal</i> , 2002, 83, 1631-1649.	0.5	201
3	The Preparation of Colloidally Stable, Water-Soluble, Biocompatible, Semiconductor Nanocrystals with a Small Hydrodynamic Diameter. <i>ACS Nano</i> , 2009, 3, 1121-1128.	14.6	171
4	EGFR oligomerization organizes kinase-active dimers into competent signalling platforms. <i>Nature Communications</i> , 2016, 7, 13307.	12.8	146
5	Targeting of a Conformationally Exposed, Tumor-Specific Epitope of EGFR as a Strategy for Cancer Therapy. <i>Cancer Research</i> , 2012, 72, 2924-2930.	0.9	124
6	The influence of nanostructured materials on biointerfacial interactions. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 1820-1839.	13.7	108
7	A SOX9 Defect of Calmodulin-dependent Nuclear Import in Campomelic Dysplasia/Autosomal Sex Reversal. <i>Journal of Biological Chemistry</i> , 2003, 278, 33839-33847.	3.4	99
8	Experimental Determination of Quantum Dot Size Distributions, Ligand Packing Densities, and Bioconjugation Using Analytical Ultracentrifugation. <i>Nano Letters</i> , 2008, 8, 2883-2890.	9.1	95
9	Organization of Higher-Order Oligomers of the Serotonin _{1A} Receptor Explored Utilizing Homo-FRET in Live Cells. <i>Biophysical Journal</i> , 2011, 100, 361-368.	0.5	95
10	Enumeration of Oligomerization States of Membrane Proteins in Living Cells by Homo-FRET Spectroscopy and Microscopy: Theory and Application. <i>Biophysical Journal</i> , 2007, 92, 3098-3104.	0.5	91
11	Compound Effects of Point Mutations Causing Campomelic Dysplasia/Autosomal Sex Reversal upon SOX9 Structure, Nuclear Transport, DNA Binding, and Transcriptional Activation. <i>Journal of Biological Chemistry</i> , 2001, 276, 27864-27872.	3.4	84
12	Through-Bond and Through-Space Coupling in Photoinduced Electron and Energy Transfer: An Ab Initio and Semiempirical Study. <i>The Journal of Physical Chemistry</i> , 1996, 100, 10912-10918.	2.9	77
13	Predominance of activated EGFR higher-order oligomers on the cell surface. <i>Growth Factors</i> , 2008, 26, 316-324.	1.7	77
14	Unligated Epidermal Growth Factor Receptor Forms Higher Order Oligomers within Microclusters on A431 Cells That Are Sensitive to Tyrosine Kinase Inhibitor Binding. <i>Biochemistry</i> , 2007, 46, 4589-4597.	2.5	76
15	Exploring higher-order EGFR oligomerisation and phosphorylation—a combined experimental and theoretical approach. <i>Molecular BioSystems</i> , 2013, 9, 1849.	2.9	72
16	The architecture of EGFR's basal complexes reveals autoinhibition mechanisms in dimers and oligomers. <i>Nature Communications</i> , 2018, 9, 4325.	12.8	71
17	Antibodies specifically targeting a locally misfolded region of tumor associated EGFR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5082-5087.	7.1	69
18	Imaging the action of antimicrobial peptides on living bacterial cells. <i>Scientific Reports</i> , 2013, 3, 1557.	3.3	69

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19	Archetypal tryptophan-rich antimicrobial peptides: properties and applications. <i>World Journal of Microbiology and Biotechnology</i> , 2016, 32, 31.	3.6	67
20	Recruitment of adenomatous polyposis coli and β -catenin to axin-puncta. <i>Oncogene</i> , 2008, 27, 5808-5820.	5.9	63
21	Tryptophan Rotamer Distributions in Amphipathic Peptides at a Lipid Surface. <i>Biophysical Journal</i> , 1999, 76, 3235-3242.	0.5	56
22	Regulation of Actin Dynamics by Protein Kinase R Control of Gelsolin Enforces Basal Innate Immune Defense. <i>Immunity</i> , 2012, 36, 795-806.	14.3	54
23	Defective Calmodulin-Mediated Nuclear Transport of the Sex-Determining Region of the Y Chromosome (SRY) in XY Sex Reversal. <i>Molecular Endocrinology</i> , 2005, 19, 1884-1892.	3.7	52
24	On the rate of radiationless intermolecular energy transfer. <i>Journal of Chemical Physics</i> , 1992, 97, 7405-7413.	3.0	39
25	Temperature measurement in the microscopic regime: a comparison between fluorescence lifetime- and intensity-based methods. <i>Journal of Microscopy</i> , 2013, 250, 179-188.	1.8	38
26	Recruitment of the Adaptor Protein Grb2 to EGFR Tetramers. <i>Biochemistry</i> , 2014, 53, 2594-2604.	2.5	36
27	Site-specific tryptophan fluorescence spectroscopy as a probe of membrane peptide structure and dynamics. <i>European Biophysics Journal</i> , 2002, 31, 9-13.	2.2	34
28	Anti-biofilm and sporicidal activity of peptides based on wheat puroindoline and barley hordoindoline proteins. <i>Journal of Peptide Science</i> , 2016, 22, 492-500.	1.4	32
29	The structure and orientation of class-A amphipathic peptides on a phospholipid bilayer surface. <i>European Biophysics Journal</i> , 1999, 28, 133-141.	2.2	31
30	BioNetFit: a fitting tool compatible with BioNetGen, Nfsim and distributed computing environments. <i>Bioinformatics</i> , 2016, 32, 798-800.	4.1	31
31	Antimicrobial peptides: biochemical determinants of activity and biophysical techniques of elucidating their functionality. <i>World Journal of Microbiology and Biotechnology</i> , 2018, 34, 62.	3.6	28
32	Evidence for extended YFP-EGFR dimers in the absence of ligand on the surface of living cells. <i>Physical Biology</i> , 2011, 8, 066002.	1.8	27
33	Aggregation Distributions on Cells Determined by Photobleaching Image Correlation Spectroscopy. <i>Biophysical Journal</i> , 2013, 104, 1056-1064.	0.5	26
34	Helix-Helix Association of a Lipid-Bound Amphipathic α -Helix Derived from Apolipoprotein C-II. <i>Biochemistry</i> , 1999, 38, 10878-10884.	2.5	25
35	Fixation alters fluorescence lifetime and anisotropy of cells expressing EYFP-tagged serotonin1A receptor. <i>Biochemical and Biophysical Research Communications</i> , 2011, 405, 234-237.	2.1	23
36	The polarized AB plot for the frequency-domain analysis and representation of fluorophore rotation and resonance energy homotransfer. <i>Journal of Microscopy</i> , 2008, 232, 306-312.	1.8	22

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37	Profilin Interaction with Phosphatidylinositol (4,5)-Bisphosphate Destabilizes the Membrane of Giant Unilamellar Vesicles. <i>Biophysical Journal</i> , 2009, 96, 5112-5121.	0.5	22
38	Structural Dynamics of a Lytic Peptide Interacting with a Supported Lipid Bilayer. <i>Biophysical Journal</i> , 2011, 100, 1353-1361.	0.5	22
39	Site-Specific Tryptophan Dynamics in Class A Amphipathic Helical Peptides at a Phospholipid Bilayer Interface. <i>Biophysical Journal</i> , 2000, 79, 1066-1073.	0.5	21
40	Slow Insertion Kinetics during Interaction of a Model Antimicrobial Peptide with Unilamellar Phospholipid Vesicles. <i>Langmuir</i> , 2012, 28, 2217-2224.	3.5	21
41	Revealing the sequence of interactions of PuroA peptide with <i>Candida albicans</i> cells by live-cell imaging. <i>Scientific Reports</i> , 2017, 7, 43542.	3.3	21
42	Ligand binding induces a conformational change in epidermal growth factor receptor dimers. <i>Growth Factors</i> , 2012, 30, 394-409.	1.7	20
43	Exploring oligomeric state of the serotonin _{1A} receptor utilizing photobleaching image correlation spectroscopy: implications for receptor function. <i>Faraday Discussions</i> , 2018, 207, 409-421.	3.2	20
44	Ultra-pure, water-dispersed Au nanoparticles produced by femtosecond laser ablation and fragmentation. <i>International Journal of Nanomedicine</i> , 2013, 8, 2601.	6.7	19
45	Taking Care of Bystander FRET in a Crowded Cell Membrane Environment. <i>Biophysical Journal</i> , 2014, 106, 1227-1228.	0.5	18
46	Get Your kICS by Measuring Membrane Protein Dynamics. <i>Biophysical Journal</i> , 2015, 109, 1-2.	0.5	18
47	Inhibiting EGFR Clustering and Cell Proliferation with Gold Nanoparticles. <i>Small</i> , 2015, 11, 1638-1643.	10.0	17
48	Dual-channel photobleaching FRET microscopy for improved resolution of protein association states in living cells. <i>European Biophysics Journal</i> , 2005, 34, 82-90.	2.2	16
49	Two conformers of a tyrosine kinase inhibitor (AG-1478) disclosed using simulated UV-Vis absorption spectroscopy. <i>New Journal of Chemistry</i> , 2016, 40, 8296-8304.	2.8	16
50	Differential and Synergistic Effects of Epidermal Growth Factor Receptor Antibodies on Unliganded ErbB Dimers and Oligomers. <i>Biochemistry</i> , 2011, 50, 3581-3590.	2.5	15
51	UV-Vis spectroscopy and solvatochromism of the tyrosine kinase inhibitor AG-1478. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 164, 128-132.	3.9	14
52	Imaging Cellular Dynamics with Spectral Relaxation Imaging Microscopy: Distinct Spectral Dynamics in Golgi Membranes of Living Cells. <i>Scientific Reports</i> , 2016, 6, 37038.	3.3	13
53	Deep-UV fluorescence lifetime imaging microscopy. <i>Photonics Research</i> , 2015, 3, 283.	7.0	11
54	Plasmon-induced photoluminescence and Raman enhancement in Pr:CaF ₂ crystal by embedded silver nanoparticles. <i>Applied Surface Science</i> , 2020, 530, 147018.	6.1	11

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55	Long-Time-Scale Interaction Dynamics between a Model Antimicrobial Peptide and Giant Unilamellar Vesicles. <i>Langmuir</i> , 2013, 29, 14613-14621.	3.5	9
56	Fluorescence and analytical ultracentrifugation analyses of the interaction of the tyrosine kinase inhibitor, tyrphostin AG1478-mesylate, with albumin. <i>Analytical Biochemistry</i> , 2005, 342, 292-299.	2.4	8
57	Effects of Rationally Designed Physico-Chemical Variants of the Peptide PuroA on Biocidal Activity towards Bacterial and Mammalian Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8624.	4.1	8
58	Dynamic Cellular Cartography: Mapping the Local Determinants of Oligodendrocyte Transcription Factor 2 (OLIG2) Function in Live Cells Using Massively Parallel Fluorescence Correlation Spectroscopy Integrated with Fluorescence Lifetime Imaging Microscopy (mpFCS/FLIM). <i>Analytical Chemistry</i> , 2021, 93, 12011-12021.	6.5	8
59	Conformational Plasticity in Tyrosine Kinase Inhibitor Kinase Interactions Revealed with Fluorescence Spectroscopy and Theoretical Calculations. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4667-4679.	2.6	7
60	Conformational Dynamics in a Truncated Epidermal Growth Factor Receptor Ectodomain. <i>Biochemistry</i> , 2011, 50, 5130-5139.	2.5	6
61	Polarization of excitation light influences molecule counting in single-molecule localization microscopy. <i>Histochemistry and Cell Biology</i> , 2015, 143, 11-19.	1.7	6
62	Direct Measurement of Pore Dynamics and Leakage Induced by a Model Antimicrobial Peptide in Single Vesicles and Cells. <i>Langmuir</i> , 2016, 32, 6496-6505.	3.5	6
63	Fluorescence-based approaches for monitoring membrane receptor oligomerization. <i>Journal of Biosciences</i> , 2018, 43, 463-469.	1.1	6
64	In-cell structural dynamics of an EGF receptor during ligand-induced dimer oligomer transition. <i>European Biophysics Journal</i> , 2020, 49, 21-37.	2.2	6
65	Red-Edge Excitation Shift Spectroscopy (REES): Application to Hidden Bound States of Ligands in Protein-Ligand Complexes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2582.	4.1	6
66	The transition from single molecule to ensemble revealed by fluorescence polarization.. <i>Scientific Reports</i> , 2015, 5, 8158.	3.3	5
67	Micro-solvation of tyrosine-kinase inhibitor AG1478 explored with fluorescence spectroscopy and computational chemistry. <i>RSC Advances</i> , 2017, 7, 31725-31735.	3.6	5
68	Uptake quantification of gold nanoparticles inside of cancer cells using high order image correlation spectroscopy. <i>Biomedical Optics Express</i> , 2021, 12, 539.	2.9	5
69	Determining complex aggregate distributions of macromolecules using photobleaching image correlation microscopy. <i>AIMS Biophysics</i> , 2015, 2, 1-7.	0.6	5
70	Creation and Biophysical Characterization of a High-Affinity, Monomeric EGF Receptor Ectodomain Using Fluorescent Proteins. <i>Biochemistry</i> , 2010, 49, 7459-7466.	2.5	4
71	Exploring the optical reporting characteristics of drugs: UV-Vis spectra and conformations of the tyrosine kinase inhibitor SKF86002. <i>New Journal of Chemistry</i> , 2017, 41, 14567-14573.	2.8	4
72	Solvatochromism and linear solvation energy relationship of the kinase inhibitor SKF86002. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 170, 226-233.	3.9	4

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73	Deducing the Conformational Properties of a Tyrosine Kinase Inhibitor in Solution by Optical Spectroscopy and Computational Chemistry. <i>Frontiers in Chemistry</i> , 2020, 8, 596.	3.6	4
74	Unfolding of Class A Amphipathic Peptides on a Lipid Surface. <i>Biochemistry</i> , 2003, 42, 1747-1753.	2.5	3
75	Analysis of complex anisotropy decays from single-frequency polarized-phasor ellipse plots. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 024005.	2.3	3
76	A pH-induced conformational switch in a tyrosine kinase inhibitor identified by electronic spectroscopy and quantum chemical calculations. <i>Scientific Reports</i> , 2017, 7, 16271.	3.3	3
77	Confocal Microscopy Reveals Cell Surface Receptor Aggregation Through Image Correlation Spectroscopy. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	3
78	Interactions of a lytic peptide with supported lipid bilayers investigated by time-resolved evanescent wave-induced fluorescence spectroscopy. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 044001.	2.3	2
79	The Effect of Nanoparticles on the Cluster Size Distributions of Activated EGFR Measured with Photobleaching Image Correlation Spectroscopy. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1112, 41-52.	1.6	2
80	A Microfluidic Device for Spatiotemporal Delivery of Stimuli to Cells. <i>AIMS Biophysics</i> , 2015, 2, 58-72.	0.6	2
81	The Effect of Translational Motion on FLIM Measurements-Single Particle Phasor-FLIM. <i>Journal of Fluorescence</i> , 2013, 23, 671-679.	2.5	1
82	A Toolbox of Fluorescence Microscopic Approaches Reveals Dynamics and Assembly of a Membrane-Associated Protein. <i>Biophysical Journal</i> , 2013, 104, 1844-1845.	0.5	1
83	Spatiotemporal Control of Transmembrane Proteins through the Cytoskeleton: An Evolving Story. <i>Biophysical Journal</i> , 2016, 110, 1036-1037.	0.5	1
84	Using fluorescence lifetime dequenching to estimate the average quinary stoichiometry of proteins in living cells. <i>Methods and Applications in Fluorescence</i> , 2020, 8, 014003.	2.3	1
85	Does frequency-dependent cell proliferation exhibit a Fano-type resonance?. <i>Physical Biology</i> , 2020, 17, 044001.	1.8	1
86	Cell Surface Receptors in the 21st Century. <i>AIMS Biophysics</i> , 2014, 1, 51-52.	0.6	1
87	pbICS microscopy technique for determining oligomeric state. , 2019, , .		1
88	Optical spectra and conformation pool of tyrosine kinase inhibitor PD153035 using a robust quantum mechanical conformation search. <i>New Journal of Chemistry</i> , 0, , .	2.8	1
89	Characterization of optical polarization converters made by femtosecond laser writing. , 2013, , .		0
90	A microfluidic device for studying cell signaling with multiple inputs and adjustable amplitudes and frequencies. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0

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91	Solvent Relaxation in Golgi Membrane by Phasor-Flim Approach. Biophysical Journal, 2014, 106, 204a.	0.5	0
92	Gold Nanoparticles: Inhibiting EGFR Clustering and Cell Proliferation with Gold Nanoparticles (Small) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 5	10.0	0
93	SpIDA Surveys the Intricate Web of Macromolecular Oligomerization In Situ. Biophysical Journal, 2015, 109, 663-664.	0.5	0
94	Multidimensional Microscopy: Application to Membrane Protein Structure. Springer Series in Biophysics, 2017, , 91-111.	0.4	0
95	Structural and Spectroscopic Study of the Tyrosine Kinase Inhibitor PD-153035. Biophysical Journal, 2019, 116, 568a.	0.5	0
96	Spectroscopic and Microscopic Approaches for Investigating the Dynamic Interactions of Anti-microbial Peptides With Membranes and Cells. Frontiers in Medical Technology, 2020, 2, 628552.	2.5	0