Ralph Jimenez

List of Publications by Year
in descending order

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42 papers	1,156 citations	430874 18 h-index	395702 33 g-index
43 all docs	43 docs citations	43 times ranked	1507 citing authors

#	Article	IF	Citations
1	Genetically encoded biosensors for visualizing live-cell biochemical activity at super-resolution. Nature Methods, 2017, 14, 427-434.	19.0	138
2	A multicolor riboswitch-based platform for imaging of RNA in live mammalian cells. Nature Chemical Biology, 2018, 14, 964-971.	8.0	114
3	Flexibility and molecular recognition in the immune system. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 92-97.	7.1	109
4	Protein dynamics and the immunological evolution of molecular recognition. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3803-3808.	7.1	98
5	Analysis of Red-Fluorescent Proteins Provides Insight into Dark-State Conversion and Photodegradation. Biophysical Journal, 2011, 101, 961-969.	0.5	73
6	Setting Bounds on Entangled Two-Photon Absorption Cross Sections in Common Fluorophores. Physical Review Applied, 2021, 15, .	3.8	55
7	Flexibility of an Antibody Binding Site Measured with Photon Echo Spectroscopy. Journal of Physical Chemistry B, 2002, 106, 1090-1103.	2.6	43
8	Droplet Microfluidic Flow Cytometer For Sorting On Transient Cellular Responses Of Genetically-Encoded Sensors. Analytical Chemistry, 2017, 89, 711-719.	6.5	41
9	Ultrafast Time-Resolved X-ray Absorption Spectroscopy of Ferrioxalate Photolysis with a Laser Plasma X-ray Source and Microcalorimeter Array. Journal of Physical Chemistry Letters, 2017, 8, 1099-1104.	4.6	35
10	High-Speed Multiparameter Photophysical Analyses of Fluorophore Libraries. Analytical Chemistry, 2015, 87, 5026-5030.	6.5	30
11	Hydrogen Bond Flexibility Correlates with Stokes Shift in mPlum Variants. Journal of Physical Chemistry B, 2014, 118, 2940-2948.	2.6	26
12	Critical Comparison of FRET-Sensor Functionality in the Cytosol and Endoplasmic Reticulum and Implications for Quantification of Ions. Analytical Chemistry, 2017, 89, 9601-9608.	6.5	26
13	Microfluidic Flow Cytometer for Quantifying Photobleaching of Fluorescent Proteins in Cells. Analytical Chemistry, 2012, 84, 3929-3937.	6.5	25
14	Microfluidics-based selection of red-fluorescent proteins with decreased rates of photobleaching. Integrative Biology (United Kingdom), 2015, 7, 263-273.	1.3	25
15	Ultrafast Time-Resolved Hard X-Ray Emission Spectroscopy on a Tabletop. Physical Review X, 2016, 6, .	8.9	23
16	Microfluidic cell sorter for use in developing red fluorescent proteins with improved photostability. Lab on A Chip, 2013, 13, 2320.	6.0	22
17	Directed evolution of excited state lifetime and brightness in FusionRed using a microfluidic sorter. Integrative Biology (United Kingdom), 2018, 10, 516-526.	1.3	22
18	Photon echo spectroscopy of porphyrins and heme proteins: Effects of quasidegenerate electronic structure on the peak shift decay. Journal of Chemical Physics, 2006, 124, 144905.	3.0	20

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19	High-Throughput Examination of Fluorescence Resonance Energy Transfer-Detected Metal-Ion Response in Mammalian Cells. Journal of the American Chemical Society, 2012, 134, 2488-2491.	13.7	19
20	Directed Evolution of a Bright Variant of mCherry: Suppression of Nonradiative Decay by Fluorescence Lifetime Selections. Journal of Physical Chemistry B, 2022, 126, 4659-4668.	2.6	19
21	Time and Frequency-Domain Measurement of Ground-State Recovery Times in Red Fluorescent Proteins. Journal of Physical Chemistry B, 2015, 119, 4944-4954.	2.6	18
22	Far-Red Emission of mPlum Fluorescent Protein Results from Excited-State Interconversion between Chromophore Hydrogen-Bonding States. Journal of Physical Chemistry Letters, 2016, 7, 2170-2174.	4.6	18
23	Enrichment of rare events using a multi-parameter high throughput microfluidic droplet sorter. Lab on A Chip, 2020, 20, 834-843.	6.0	18
24	Hot-Band Absorption Can Mimic Entangled Two-Photon Absorption. Journal of Physical Chemistry Letters, 2022, 13, 1489-1493.	4.6	18
25	Ultrafast internal conversion dynamics of bilirubin bound to UnaG and its N57A mutant. Physical Chemistry Chemical Physics, 2019, 21, 2365-2371.	2.8	17
26	Engineering of a Brighter Variant of the FusionRed Fluorescent Protein Using Lifetime Flow Cytometry and Structure-Guided Mutations. Biochemistry, 2020, 59, 3669-3682.	2.5	15
27	Three-pulse photon echo peak shift spectroscopy as a probe of flexibility and conformational heterogeneity in protein folding. Chemical Physics Letters, 2009, 473, 330-335.	2.6	14
28	Fluorescence from Multiple Chromophore Hydrogen-Bonding States in the Far-Red Protein TagRFP675. Journal of Physical Chemistry Letters, 2016, 7, 3046-3051.	4.6	14
29	Photophysical Engineering of Fluorescent Proteins: Accomplishments and Challenges of Physical Chemistry Strategies. Journal of Physical Chemistry B, 2022, 126, 735-750.	2.6	14
30	Ultrafast spectroscopy of biliverdin dimethyl ester in solution: pathways of excited-state depopulation. Physical Chemistry Chemical Physics, 2020, 22, 19903-19912.	2.8	9
31	Microfluidic System for In-Flow Reversible Photoswitching of Near-Infrared Fluorescent Proteins. Analytical Chemistry, 2016, 88, 11821-11829.	6.5	7
32	Witnessing the survival of time-energy entanglement through biological tissue and scattering media. Biomedical Optics Express, 2021, 12, 3658.	2.9	7
33	A comprehensive experimental system for measuring molecular two-photon absorption using an ultrafast entangled photon pair excitation source. , 2020, , .		7
34	Excited State Electronic Landscape of mPlum Revealed by Two-Dimensional Double Quantum Coherence Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 3414-3422.	2.6	6
35	Characterizing dark state kinetics and single molecule fluorescence of FusionRed and FusionRed-MQ at low irradiances. Physical Chemistry Chemical Physics, 2022, 24, 14310-14323.	2.8	4
36	Intramolecular Fluorescent Protein Association in a Class of Zinc FRET Sensors Leads to Increased Dynamic Range. Journal of Physical Chemistry B, 2019, 123, 3079-3085.	2.6	3

#	Article	IF	Citations
37	Photo-Switching of Protein Dynamical Collectivity. Photonics, 2021, 8, 302.	2.0	2
38	Temperature-Dependent Fluorescence of mPlum Fluorescent Protein from 295 to 20 K. Journal of Physical Chemistry B, 2022, 126, 2337-2344.	2.6	2
39	Two-photon absorption fluorescence imaging to characterize microfluidic device performance. , 2006, , .		0
40	Design and fabrication of efficient reflection grisms for pulse compression and dispersion compensation. , 2006, , .		0
41	Linear, spatio-temporal characterization of UV microscope objectives for nonlinear imaging and spectroscopy. , 2007, , .		0
42	Distinguishing Between Two and Three-State Equilibrium Folding with Three-Pulse Photon Echo Peak Shift (3PEPS) Spectroscopy. , 2010, , .		0