

Ralph Jimenez

List of Publications by Year in descending order

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42
papers

1,156
citations

430874

18
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395702

33
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docs citations

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times ranked

1507
citing authors

#	ARTICLE	IF	CITATIONS
1	Photophysical Engineering of Fluorescent Proteins: Accomplishments and Challenges of Physical Chemistry Strategies. <i>Journal of Physical Chemistry B</i> , 2022, 126, 735-750.	2.6	14
2	Hot-Band Absorption Can Mimic Entangled Two-Photon Absorption. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1489-1493.	4.6	18
3	Temperature-Dependent Fluorescence of mPlum Fluorescent Protein from 295 to 20 K. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2337-2344.	2.6	2
4	Characterizing dark state kinetics and single molecule fluorescence of FusionRed and FusionRed-MQ at low irradiances. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 14310-14323.	2.8	4
5	Directed Evolution of a Bright Variant of mCherry: Suppression of Nonradiative Decay by Fluorescence Lifetime Selections. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4659-4668.	2.6	19
6	Setting Bounds on Entangled Two-Photon Absorption Cross Sections in Common Fluorophores. <i>Physical Review Applied</i> , 2021, 15, .	3.8	55
7	Witnessing the survival of time-energy entanglement through biological tissue and scattering media. <i>Biomedical Optics Express</i> , 2021, 12, 3658.	2.9	7
8	Photo-Switching of Protein Dynamical Collectivity. <i>Photonics</i> , 2021, 8, 302.	2.0	2
9	Ultrafast spectroscopy of biliverdin dimethyl ester in solution: pathways of excited-state depopulation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19903-19912.	2.8	9
10	Engineering of a Brighter Variant of the FusionRed Fluorescent Protein Using Lifetime Flow Cytometry and Structure-Guided Mutations. <i>Biochemistry</i> , 2020, 59, 3669-3682.	2.5	15
11	Enrichment of rare events using a multi-parameter high throughput microfluidic droplet sorter. <i>Lab on A Chip</i> , 2020, 20, 834-843.	6.0	18
12	A comprehensive experimental system for measuring molecular two-photon absorption using an ultrafast entangled photon pair excitation source. , 2020, , .		7
13	Ultrafast internal conversion dynamics of bilirubin bound to UnaG and its N57A mutant. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2365-2371.	2.8	17
14	Intramolecular Fluorescent Protein Association in a Class of Zinc FRET Sensors Leads to Increased Dynamic Range. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3079-3085.	2.6	3
15	A multicolor riboswitch-based platform for imaging of RNA in live mammalian cells. <i>Nature Chemical Biology</i> , 2018, 14, 964-971.	8.0	114
16	Directed evolution of excited state lifetime and brightness in FusionRed using a microfluidic sorter. <i>Integrative Biology (United Kingdom)</i> , 2018, 10, 516-526.	1.3	22
17	Ultrafast Time-Resolved X-ray Absorption Spectroscopy of Ferrioxalate Photolysis with a Laser Plasma X-ray Source and Microcalorimeter Array. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1099-1104.	4.6	35
18	Genetically encoded biosensors for visualizing live-cell biochemical activity at super-resolution. <i>Nature Methods</i> , 2017, 14, 427-434.	19.0	138

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19	Droplet Microfluidic Flow Cytometer For Sorting On Transient Cellular Responses Of Genetically-Encoded Sensors. <i>Analytical Chemistry</i> , 2017, 89, 711-719.	6.5	41
20	Critical Comparison of FRET-Sensor Functionality in the Cytosol and Endoplasmic Reticulum and Implications for Quantification of Ions. <i>Analytical Chemistry</i> , 2017, 89, 9601-9608.	6.5	26
21	Far-Red Emission of mPlum Fluorescent Protein Results from Excited-State Interconversion between Chromophore Hydrogen-Bonding States. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2170-2174.	4.6	18
22	Ultrafast Time-Resolved Hard X-Ray Emission Spectroscopy on a Tabletop. <i>Physical Review X</i> , 2016, 6, .	8.9	23
23	Fluorescence from Multiple Chromophore Hydrogen-Bonding States in the Far-Red Protein TagRFP675. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3046-3051.	4.6	14
24	Microfluidic System for In-Flow Reversible Photoswitching of Near-Infrared Fluorescent Proteins. <i>Analytical Chemistry</i> , 2016, 88, 11821-11829.	6.5	7
25	Excited State Electronic Landscape of mPlum Revealed by Two-Dimensional Double Quantum Coherence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3414-3422.	2.6	6
26	Time and Frequency-Domain Measurement of Ground-State Recovery Times in Red Fluorescent Proteins. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4944-4954.	2.6	18
27	High-Speed Multiparameter Photophysical Analyses of Fluorophore Libraries. <i>Analytical Chemistry</i> , 2015, 87, 5026-5030.	6.5	30
28	Microfluidics-based selection of red-fluorescent proteins with decreased rates of photobleaching. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 263-273.	1.3	25
29	Hydrogen Bond Flexibility Correlates with Stokes Shift in mPlum Variants. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2940-2948.	2.6	26
30	Microfluidic cell sorter for use in developing red fluorescent proteins with improved photostability. <i>Lab on A Chip</i> , 2013, 13, 2320.	6.0	22
31	High-Throughput Examination of Fluorescence Resonance Energy Transfer-Detected Metal-Ion Response in Mammalian Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 2488-2491.	13.7	19
32	Microfluidic Flow Cytometer for Quantifying Photobleaching of Fluorescent Proteins in Cells. <i>Analytical Chemistry</i> , 2012, 84, 3929-3937.	6.5	25
33	Analysis of Red-Fluorescent Proteins Provides Insight into Dark-State Conversion and Photodegradation. <i>Biophysical Journal</i> , 2011, 101, 961-969.	0.5	73
34	Distinguishing Between Two and Three-State Equilibrium Folding with Three-Pulse Photon Echo Peak Shift (3PEPS) Spectroscopy. , 2010, , .		0
35	Three-pulse photon echo peak shift spectroscopy as a probe of flexibility and conformational heterogeneity in protein folding. <i>Chemical Physics Letters</i> , 2009, 473, 330-335.	2.6	14
36	Linear, spatio-temporal characterization of UV microscope objectives for nonlinear imaging and spectroscopy. , 2007, , .		0

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37	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
38	Two-photon absorption fluorescence imaging to characterize microfluidic device performance. , 2006, , .		0
39	Design and fabrication of efficient reflection gratings for pulse compression and dispersion compensation. , 2006, , .		0
40	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
41	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
42	Flexibility of an Antibody Binding Site Measured with Photon Echo Spectroscopy. Journal of Physical Chemistry B, 2002, 106, 1090-1103.	2.6	43