

Cristina Flors

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

3,355
citations

159585

30
h-index

144013

57
g-index

69
all docs

69
docs citations

69
times ranked

4657
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging the production of singlet oxygen in vivo using a new fluorescent sensor, Singlet Oxygen Sensor Green(R). <i>Journal of Experimental Botany</i> , 2006, 57, 1725-1734.	4.8	431
2	Solvent and pH Dependent Fluorescent Properties of a Dimethylaminostyryl Borondipyrromethene Dye in Solution. <i>Journal of Physical Chemistry A</i> , 2006, 110, 5998-6009.	2.5	222
3	A super-resolution map of the vertebrate kinetochore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10484-10489.	7.1	186
4	A Stroboscopic Approach for Fast Photoactivation [~] Localization Microscopy with Dronpa Mutants. <i>Journal of the American Chemical Society</i> , 2007, 129, 13970-13977.	13.7	145
5	Dark States in Monomeric Red Fluorescent Proteins Studied by Fluorescence Correlation and Single Molecule Spectroscopy. <i>Biophysical Journal</i> , 2008, 94, 4103-4113.	0.5	133
6	Subdiffraction Imaging through the Selective Donut-Mode Depletion of Thermally Stable Photoswitchable Fluorophores: Numerical Analysis and Application to the Fluorescent Protein Dronpa. <i>Journal of the American Chemical Society</i> , 2007, 129, 16132-16141.	13.7	130
7	Singlet Oxygen Generation by the Genetically Encoded Tag miniSOG. <i>Journal of the American Chemical Society</i> , 2013, 135, 9564-9567.	13.7	126
8	Light and Singlet Oxygen in Plant Defense Against Pathogens: Phototoxic Phenalenone Phytoalexins. <i>Accounts of Chemical Research</i> , 2006, 39, 293-300.	15.6	120
9	Highlighted Generation of Fluorescence Signals Using Simultaneous Two-Color Irradiation on Dronpa Mutants. <i>Biophysical Journal</i> , 2007, 92, L97-L99.	0.5	116
10	Singlet Oxygen Photosensitization by EGFP and its Chromophore HBDI. <i>Biophysical Journal</i> , 2008, 94, 168-172.	0.5	109
11	Super [~] Resolution Imaging of DNA Labelled with Intercalating Dyes. <i>ChemPhysChem</i> , 2009, 10, 2201-2204.	2.1	102
12	Super [~] Resolution Fluorescence Imaging for Materials Science. <i>Small Methods</i> , 2017, 1, 1700191.	8.6	100
13	Antibacterial Activity of DNA-Stabilized Silver Nanoclusters Tuned by Oligonucleotide Sequence. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10147-10154.	8.0	98
14	Energy and Electron Transfer in Ethynylene Bridged Perylene Diimide Multichromophores. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4861-4870.	3.1	83
15	Photo-induced protonation/deprotonation in the GFP-like fluorescent protein Dronpa: mechanism responsible for the reversible photoswitching. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 567.	2.9	81
16	Ultrafast Excited-State Dynamics of the Photoswitchable Protein Dronpa. <i>Journal of the American Chemical Society</i> , 2007, 129, 4870-4871.	13.7	79
17	Second-Harmonic Generation in GFP-like Proteins. <i>Journal of the American Chemical Society</i> , 2008, 130, 15713-15719.	13.7	66
18	DNA and chromatin imaging with super [~] resolution fluorescence microscopy based on single [~] molecule localization. <i>Biopolymers</i> , 2011, 95, 290-297.	2.4	57

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19	Light- and singlet oxygen-mediated antifungal activity of phenylphenalenone phytoalexins. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 706-710.	2.9	54
20	Photoconversion in the Red Fluorescent Protein from the Sea Anemone <i>Entacmaea quadricolor</i> : Is Cis-Trans Isomerization Involved?. <i>Journal of the American Chemical Society</i> , 2006, 128, 6270-6271.	13.7	51
21	Quantification of Photosensitized Singlet Oxygen Production by a Fluorescent Protein. <i>ChemPhysChem</i> , 2011, 12, 161-165.	2.1	50
22	Correlative Atomic Force Microscopy and Localization-Based Super-Resolution Microscopy: Revealing Labelling and Image Reconstruction Artefacts. <i>ChemPhysChem</i> , 2014, 15, 647-650.	2.1	48
23	Photoswitching of monomeric and dimeric DNA-intercalating cyanine dyes for super-resolution microscopy applications. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 643.	2.9	47
24	On the Phosphorescence of 1H-Phenalen-1-one. <i>Helvetica Chimica Acta</i> , 2001, 84, 2533.	1.6	45
25	Super-resolution fluorescence microscopy as a tool to study the nanoscale organization of chromosomes. <i>Current Opinion in Chemical Biology</i> , 2011, 15, 838-844.	6.1	43
26	Phototoxic Phytoalexins. Processes that Compete with the Photosensitized Production of Singlet Oxygen by 9-Phenylphenalenones. <i>Photochemistry and Photobiology</i> , 2006, 82, 95.	2.5	42
27	Tailing miniSOG: structural bases of the complex photophysics of a flavin-binding singlet oxygen photosensitizing protein. <i>Scientific Reports</i> , 2019, 9, 2428.	3.3	37
28	Singlet oxygen photosensitisation by GFP mutants: oxygen accessibility to the chromophore. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 1336-1341.	2.9	34
29	Biologically controlled synthesis and assembly of magnetite nanoparticles. <i>Faraday Discussions</i> , 2015, 181, 71-83.	3.2	34
30	Constitutively active RhoA inhibits proliferation by retarding G1 to S phase cell cycle progression and impairing cytokinesis. <i>European Journal of Cell Biology</i> , 2009, 88, 495-507.	3.6	33
31	3D Nanoscopy: Bringing Biological Nanostructures into Sharp Focus. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8330-8332.	13.8	30
32	Assessing the potential of photosensitizing flavoproteins as tags for correlative microscopy. <i>Chemical Communications</i> , 2016, 52, 8405-8408.	4.1	30
33	Naphthoxanthenyl, a New Stable Phenalenyl Type Radical Stabilized by Electronic Effects. <i>Organic Letters</i> , 2013, 15, 2970-2973.	4.6	26
34	Super-resolution fluorescence imaging of directly labelled DNA: from microscopy standards to living cells. <i>Journal of Microscopy</i> , 2013, 251, 1-4.	1.8	26
35	Mechanically Induced Bacterial Death Imaged in Real Time: A Simultaneous Nanoindentation and Fluorescence Microscopy Study. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31235-31241.	8.0	25
36	Nanoscale View of Amyloid Photodynamic Damage. <i>Journal of the American Chemical Society</i> , 2020, 142, 922-930.	13.7	24

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37	A genetically-encoded photosensitizer demonstrates killing of bacteria by purely endogenous singlet oxygen. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1411-1413.	2.9	22
38	How Is cis [→] trans Isomerization Controlled in Dronpa Mutants? A Replica Exchange Molecular Dynamics Study. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1012-1020.	5.3	21
39	Apo ferritin fibers: a new template for 1D fluorescent hybrid nanostructures. <i>Nanoscale</i> , 2016, 8, 9648-9656.	5.6	18
40	Radical species derived from phenalenone: characterization and role of upper excited states. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 163, 9-12.	3.9	17
41	Hybrid Nanoscopy of Hybrid Nanomaterials. <i>Small</i> , 2017, 13, 1603784.	10.0	17
42	Single perylene diimide dendrimers as single-photon sources. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 445004.	1.8	16
43	Correlative Super-Resolution Fluorescence Imaging and Atomic Force Microscopy for the Characterization of Biological Samples. <i>Methods in Molecular Biology</i> , 2017, 1663, 105-113.	0.9	16
44	Long-term STED imaging of amyloid fibers with exchangeable Thioflavin T. <i>Nanoscale</i> , 2020, 12, 15050-15053.	5.6	16
45	Real-time imaging of photodynamic action in bacteria. <i>Journal of Biophotonics</i> , 2017, 10, 264-270.	2.3	14
46	Photochemistry of Phytoalexins Containing Phenalenone-like Chromophores: Photophysics and Singlet Oxygen Photosensitizing Properties of the Plant Oxoaporphine Alkaloid Oxoglucine. <i>Photochemistry and Photobiology</i> , 2005, 81, 120.	2.5	13
47	Reversible Fluorescence Photoswitching in DNA. <i>Journal of Physical Chemistry B</i> , 2012, 116, 10290-10293.	2.6	13
48	Single-molecule imaging at high hydrostatic pressure. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	13
49	¹² C-Phenyl quenching of 9-phenylphenalenones: a novel photocyclisation reaction with biological implications. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18813-18820.	2.8	12
50	Photoswitching-Enabled Contrast Enhancement in Light Sheet Fluorescence Microscopy. <i>ACS Photonics</i> , 2017, 4, 424-428.	6.6	12
51	Versatile Near-Infrared Super-Resolution Imaging of Amyloid Fibrils with the Fluorogenic Probe CRANAD-2. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	11
52	Fluorescent Flavoprotein Heterodimers: Combining Photostability with Singlet Oxygen Generation. <i>ChemPhotoChem</i> , 2018, 2, 571-574.	3.0	6
53	Linear assembly of lead bromide-based nanoparticles inside lead(II) polymers prepared by mixing the precursors of both the nanoparticle and the polymer. <i>Chemical Communications</i> , 2019, 55, 2968-2971.	4.1	6
54	9-Aryl-phenalenones: Bioinspired thermally reversible photochromic compounds for photoswitching applications in the pico-to milliseconds range. <i>Dyes and Pigments</i> , 2021, 186, 109060.	3.7	6

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55	FIT for Purpose: PNA-Based Probes Enable mRNA Imaging in Living Cells. <i>ChemBioChem</i> , 2011, 12, 1007-1009.	2.6	5
56	Boosting the inactivation of bacterial biofilms by photodynamic targeting of matrix structures with Thioflavin T. <i>Chemical Communications</i> , 2021, 57, 8648-8651.	4.1	5
57	Singlet Oxygen: Chemistry, Applications and Challenges Ahead. <i>ChemPhotoChem</i> , 2018, 2, 510-511.	3.0	4
58	Min Oscillations as Real-time Reporter of Sublethal Effects in Photodynamic Treatment of Bacteria. <i>ACS Infectious Diseases</i> , 2022, 8, 86-90.	3.8	3
59	Photochemistry of Phytoalexins Containing Phenalenone-like Chromophores: Photophysics and Singlet Oxygen Photosensitizing Properties of the Plant Oxoaporphine Alkaloid Oxoglaucine. <i>Photochemistry and Photobiology</i> , 2005, 81, 120-124.	2.5	2
60	Nonlinear optical properties of photoswitchable fluorescent proteins. <i>Proceedings of SPIE</i> , 2009, , .	0.8	2
61	Fluorescent proteins as singlet oxygen photosensitizers: mechanistic studies in photodynamic inactivation of bacteria. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
62	Mechanics of Virus-like Particles Labeled with Green Fluorescent Protein. <i>Biophysical Journal</i> , 2018, 115, 1561-1568.	0.5	2
63	Probing dynamics of individual bio molecules by single molecule spectroscopy. , 2006, , .		0