

Dominique Bourgeois

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59
papers

2,891
citations

31
h-index

53
g-index

63
ext. papers

3,247
ext. citations

8.9
avg, IF

4.81
L-index

#	Paper	IF	Citations
59	Protein conformational relaxation and ligand migration in myoglobin: a nanosecond to millisecond molecular movie from time-resolved Laue X-ray diffraction. <i>Biochemistry</i> , 2001 , 40, 13802-15	3.2	296
58	Structural characterization of IrisFP, an optical highlighter undergoing multiple photo-induced transformations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18343-8	11.5	187
57	Complex landscape of protein structural dynamics unveiled by nanosecond Laue crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 8704-9	11.5	184
56	Raman-assisted crystallography reveals end-on peroxide intermediates in a nonheme iron enzyme. <i>Science</i> , 2007 , 316, 449-53	33.3	134
55	Advances in kinetic protein crystallography. <i>Current Opinion in Structural Biology</i> , 2005 , 15, 538-47	8.1	112
54	Extended subnanosecond structural dynamics of myoglobin revealed by Laue crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 4924-9	11.5	104
53	Laue crystallography: coming of age. <i>Journal of Synchrotron Radiation</i> , 1999 , 6, 891-917	2.4	102
52	Reversible photoswitching in fluorescent proteins: a mechanistic view. <i>IUBMB Life</i> , 2012 , 64, 482-91	4.7	101
51	Chromophore twisting in the excited state of a photoswitchable fluorescent protein captured by time-resolved serial femtosecond crystallography. <i>Nature Chemistry</i> , 2018 , 10, 31-37	17.6	99
50	Intrinsic dynamics in ECFP and Cerulean control fluorescence quantum yield. <i>Biochemistry</i> , 2009 , 48, 10038-46	3.8	96
49	Structural basis for the phototoxicity of the fluorescent protein KillerRed. <i>FEBS Letters</i> , 2009 , 583, 2839-48	3.8	87
48	Structural basis of enhanced photoconversion yield in green fluorescent protein-like protein Dendra2. <i>Biochemistry</i> , 2009 , 48, 4905-15	3.2	84
47	Structure of superoxide reductase bound to ferrocyanide and active site expansion upon X-ray-induced photo-reduction. <i>Structure</i> , 2004 , 12, 1729-40	5.2	84
46	Reverse pH-dependence of chromophore protonation explains the large Stokes shift of the red fluorescent protein mKeima. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10356-7	16.4	69
45	Phototransformable fluorescent proteins: Future challenges. <i>Current Opinion in Chemical Biology</i> , 2014 , 20, 92-102	9.7	57
44	Structural basis of X-ray-induced transient photobleaching in a photoactivatable green fluorescent protein. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18063-5	16.4	57
43	Diffusion pathways of oxygen species in the phototoxic fluorescent protein KillerRed. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 1342-50	4.2	54

42	A microspectrophotometer for UV-visible absorption and fluorescence studies of protein crystals. <i>Journal of Applied Crystallography</i> , 2002 , 35, 319-326	3.8	53
41	Data storage based on photochromic and photoconvertible fluorescent proteins. <i>Journal of Biotechnology</i> , 2010 , 149, 289-98	3.7	52
40	Shoot-and-Trap: use of specific x-ray damage to study structural protein dynamics by temperature-controlled cryo-crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 11742-7	11.5	49
39	Structural evidence for a two-regime photobleaching mechanism in a reversibly switchable fluorescent protein. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15841-50	16.4	47
38	Low-temperature chromophore isomerization reveals the photoswitching mechanism of the fluorescent protein Padron. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16362-5	16.4	47
37	Advances in spectroscopic methods for biological crystals. 1. Fluorescence lifetime measurements. <i>Journal of Applied Crystallography</i> , 2007 , 40, 1105-1112	3.8	47
36	Rational design of ultrastable and reversibly photoswitchable fluorescent proteins for super-resolution imaging of the bacterial periplasm. <i>Scientific Reports</i> , 2016 , 6, 18459	4.9	39
35	Advances in spectroscopic methods for biological crystals. 2. Raman spectroscopy. <i>Journal of Applied Crystallography</i> , 2007 , 40, 1113-1122	3.8	38
34	Use of a labeled analogue to study the traffic of choline within acetylcholinesterase by kinetic crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007 , 63, 1115-28		38
33	Photoconversion of the fluorescent protein EosFP: a hybrid potential simulation study reveals intersystem crossings. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16814-23	16.4	34
32	Arginine 66 Controls Dark-State Formation in Green-to-Red Photoconvertible Fluorescent Proteins. <i>Journal of the American Chemical Society</i> , 2016 , 138, 558-65	16.4	32
31	Time-resolved methods in biophysics. 6. Time-resolved Laue crystallography as a tool to investigate photo-activated protein dynamics. <i>Photochemical and Photobiological Sciences</i> , 2007 , 6, 1047-56	4.2	32
30	Serial Femtosecond Crystallography and Ultrafast Absorption Spectroscopy of the Photoswitchable Fluorescent Protein IrisFP. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 882-7	6.4	31
29	The nature of transient dark states in a photoactivatable fluorescent protein. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18586-9	16.4	31
28	Raman-assisted crystallography suggests a mechanism of X-ray-induced disulfide radical formation and reparation. <i>Structure</i> , 2010 , 18, 1410-9	5.2	31
27	Low-temperature switching by photoinduced protonation in photochromic fluorescent proteins. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 254-62	4.2	30
26	X-ray radiation-induced damage in DNA monitored by online Raman. <i>Journal of Synchrotron Radiation</i> , 2007 , 14, 99-108	2.4	30
25	Temperature derivative fluorescence spectroscopy as a tool to study dynamical changes in protein crystals. <i>Biophysical Journal</i> , 2004 , 86, 3176-85	2.9	30

24	Cryophotolysis of caged compounds: a technique for trapping intermediate states in protein crystals. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002 , 58, 607-14		28
23	A General Mechanism of Photoconversion of Green-to-Red Fluorescent Proteins Based on Blue and Infrared Light Reduces Phototoxicity in Live-Cell Single-Molecule Imaging. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11634-11639	16.4	26
22	In cellulo evaluation of phototransformation quantum yields in fluorescent proteins used as markers for single-molecule localization microscopy. <i>PLoS ONE</i> , 2014 , 9, e98362	3.7	25
21	Photoswitching mechanism of a fluorescent protein revealed by time-resolved crystallography and transient absorption spectroscopy. <i>Nature Communications</i> , 2020 , 11, 741	17.4	23
20	Mechanistic investigation of mEos4b reveals a strategy to reduce track interruptions in sptPALM. <i>Nature Methods</i> , 2019 , 16, 707-710	21.6	23
19	Towards automated Laue data processing: application to the choice of optimal X-ray spectrum. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000 , 56, 973-85		23
18	Photoactivated structural dynamics of fluorescent proteins. <i>Biochemical Society Transactions</i> , 2012 , 40, 531-8	5.1	19
17	A Long-Lived Triplet State Is the Entrance Gateway to Oxidative Photochemistry in Green Fluorescent Proteins. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2897-2905	16.4	18
16	Rational design of enhanced photoresistance in a photoswitchable fluorescent protein. <i>Methods and Applications in Fluorescence</i> , 2015 , 3, 014004	3.1	15
15	Cell morphology and nucleoid dynamics in dividing <i>Deinococcus radiodurans</i> . <i>Nature Communications</i> , 2019 , 10, 3815	17.4	13
14	Structural basis of photoswitching in fluorescent proteins. <i>Methods in Molecular Biology</i> , 2014 , 1148, 177-202	1.4	13
13	Mechanistic Investigations of Green mEos4b Reveal a Dynamic Long-Lived Dark State. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10978-10988	16.4	12
12	Photoswitching of Green mEos2 by Intense 561 nm Light Perturbs Efficient Green-to-Red Photoconversion in Localization Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4424-4430	6.4	9
11	Cryophotolysis of a caged oxygen compound for use in low temperature biological studies. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 1150-6	4.2	9
10	Deciphering Structural Photophysics of Fluorescent Proteins by Kinetic Crystallography. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	8
9	Raman-assisted X-ray crystallography for the analysis of biomolecules. <i>Methods in Molecular Biology</i> , 2009 , 544, 253-67	1.4	8
8	Bacterial cell wall nanoimaging by autoblanking microscopy. <i>Scientific Reports</i> , 2018 , 8, 14038	4.9	6
7	NMR Reveals Light-Induced Changes in the Dynamics of a Photoswitchable Fluorescent Protein. <i>Biophysical Journal</i> , 2019 , 117, 2087-2100	2.9	5

6	Ligand pathways in neuroglobin revealed by low-temperature photodissociation and docking experiments. <i>IUCrJ</i> , 2019 , 6, 832-842	4.7	4
5	Supramolecular assembly of the Ldcl upon acid stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
4	Disentangling Chromophore States in a Reversibly Switchable Green Fluorescent Protein: Mechanistic Insights from NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7521-7530	16.4	2
3	Cell morphology and nucleoid dynamics in dividing <i>D. radiodurans</i>		1
2	Extra kinetic dimensions for label discrimination.. <i>Nature Communications</i> , 2022 , 13, 1482	17.4	0
1	mEos4b Photoconversion Efficiency Depends on Laser Illumination Conditions Used in PALM. <i>Journal of Physical Chemistry Letters</i> , 5075-5080	6.4	0