Dominique Bourgeois

List of Publications by Year in Descending Order

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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	Extra kinetic dimensions for label discrimination.. *Nature Communications*, **2022**, 13, 1482	17.4	0
58	Supramolecular assembly of the LdcI upon acid stress. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
57	Disentangling Chromophore States in a Reversibly Switchable Green Fluorescent Protein: Mechanistic Insights from NMR Spectroscopy. *Journal of the American Chemical Society*, **2021**, 143, 7521-7530	16.4	2
56	Mechanistic Investigations of Green mEos4b Reveal a Dynamic Long-Lived Dark State. *Journal of the American Chemical Society*, **2020**, 142, 10978-10988	16.4	12
55	Photoswitching mechanism of a fluorescent protein revealed by time-resolved crystallography and transient absorption spectroscopy. *Nature Communications*, **2020**, 11, 741	17.4	23
54	Cell morphology and nucleoid dynamics in dividing Deinococcus radiodurans. *Nature Communications*, **2019**, 10, 3815	17.4	13
53	Mechanistic investigation of mEos4b reveals a strategy to reduce track interruptions in sptPALM. *Nature Methods*, **2019**, 16, 707-710	21.6	23
52	NMR Reveals Light-Induced Changes in the Dynamics of a Photoswitchable Fluorescent Protein. *Biophysical Journal*, **2019**, 117, 2087-2100	2.9	5
51	Ligand pathways in neuroglobin revealed by low-temperature photodissociation and docking experiments. *IUCrJ*, **2019**, 6, 832-842	4.7	4
50	A Long-Lived Triplet State Is the Entrance Gateway to Oxidative Photochemistry in Green Fluorescent Proteins. *Journal of the American Chemical Society*, **2018**, 140, 2897-2905	16.4	18
49	Chromophore twisting in the excited state of a photoswitchable fluorescent protein captured by time-resolved serial femtosecond crystallography. *Nature Chemistry*, **2018**, 10, 31-37	17.6	99
48	Bacterial cell wall nanoimaging by autoblinking microscopy. *Scientific Reports*, **2018**, 8, 14038	4.9	6
47	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. *Angewandte Chemie - International Edition*, **2017**, 56, 11634-11639	16.4	26
46	Photoswitching of Green mEos2 by Intense 561 nm Light Perturbs Efficient Green-to-Red Photoconversion in Localization Microscopy. *Journal of Physical Chemistry Letters*, **2017**, 8, 4424-4430	6.4	9
45	Deciphering Structural Photophysics of Fluorescent Proteins by Kinetic Crystallography. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	8
44	Serial Femtosecond Crystallography and Ultrafast Absorption Spectroscopy of the Photoswitchable Fluorescent Protein IrisFP. *Journal of Physical Chemistry Letters*, **2016**, 7, 882-7	6.4	31
43	Arginine 66 Controls Dark-State Formation in Green-to-Red Photoconvertible Fluorescent Proteins. *Journal of the American Chemical Society*, **2016**, 138, 558-65	16.4	32

42	Rational design of ultrastable and reversibly photoswitchable fluorescent proteins for super-resolution imaging of the bacterial periplasm. *Scientific Reports*, **2016**, 6, 18459	4.9	39
41	Rational design of enhanced photoresistance in a photoswitchable fluorescent protein. *Methods and Applications in Fluorescence*, **2015**, 3, 014004	3.1	15
40	Phototransformable fluorescent proteins: Future challenges. *Current Opinion in Chemical Biology*, **2014**, 20, 92-102	9.7	57
39	In cellulo evaluation of phototransformation quantum yields in fluorescent proteins used as markers for single-molecule localization microscopy. *PLoS ONE*, **2014**, 9, e98362	3.7	25
38	Structural basis of photoswitching in fluorescent proteins. *Methods in Molecular Biology*, **2014**, 1148, 177-202	1.4	13
37	Structural evidence for a two-regime photobleaching mechanism in a reversibly switchable fluorescent protein. *Journal of the American Chemical Society*, **2013**, 135, 15841-50	16.4	47
36	Photoactivated structural dynamics of fluorescent proteins. *Biochemical Society Transactions*, **2012**, 40, 531-8	5.1	19
35	Reversible photoswitching in fluorescent proteins: a mechanistic view. *IUBMB Life*, **2012**, 64, 482-91	4.7	101
34	The nature of transient dark states in a photoactivatable fluorescent protein. *Journal of the American Chemical Society*, **2011**, 133, 18586-9	16.4	31
33	Low-temperature chromophore isomerization reveals the photoswitching mechanism of the fluorescent protein Padron. *Journal of the American Chemical Society*, **2011**, 133, 16362-5	16.4	47
32	Diffusion pathways of oxygen species in the phototoxic fluorescent protein KillerRed. *Photochemical and Photobiological Sciences*, **2010**, 9, 1342-50	4.2	54
31	Low-temperature switching by photoinduced protonation in photochromic fluorescent proteins. *Photochemical and Photobiological Sciences*, **2010**, 9, 254-62	4.2	30
30	Raman-assisted crystallography suggests a mechanism of X-ray-induced disulfide radical formation and reparation. *Structure*, **2010**, 18, 1410-9	5.2	31
29	Data storage based on photochromic and photoconvertible fluorescent proteins. *Journal of Biotechnology*, **2010**, 149, 289-98	3.7	52
28	Structural basis for the phototoxicity of the fluorescent protein KillerRed. *FEBS Letters*, **2009**, 583, 2839-48	3.2	87
27	Intrinsic dynamics in ECFP and Cerulean control fluorescence quantum yield. *Biochemistry*, **2009**, 48, 10038-46	3.2	96
26	Structural basis of enhanced photoconversion yield in green fluorescent protein-like protein Dendra2. *Biochemistry*, **2009**, 48, 4905-15	3.2	84
25	Reverse pH-dependence of chromophore protonation explains the large Stokes shift of the red fluorescent protein mKeima. *Journal of the American Chemical Society*, **2009**, 131, 10356-7	16.4	69

24	Photoconversion of the fluorescent protein EosFP: a hybrid potential simulation study reveals intersystem crossings. *Journal of the American Chemical Society*, **2009**, 131, 16814-23	16.4	34
23	Cryophotolysis of a caged oxygen compound for use in low temperature biological studies. *Photochemical and Photobiological Sciences*, **2009**, 8, 1150-6	4.2	9
22	Structural basis of X-ray-induced transient photobleaching in a photoactivatable green fluorescent protein. *Journal of the American Chemical Society*, **2009**, 131, 18063-5	16.4	57
21	Raman-assisted X-ray crystallography for the analysis of biomolecules. *Methods in Molecular Biology* , **2009**, 544, 253-67	1.4	8
20	Structural characterization of IrisFP, an optical highlighter undergoing multiple photo-induced transformations. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 18343-8	11.5	187
19	Shoot-and-Trap: use of specific x-ray damage to study structural protein dynamics by temperature-controlled cryo-crystallography. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 11742-7	11.5	49
18	Advances in spectroscopic methods for biological crystals. 1. Fluorescence lifetime measurements. *Journal of Applied Crystallography*, **2007**, 40, 1105-1112	3.8	47
17	Advances in spectroscopic methods for biological crystals. 2. Raman spectroscopy. *Journal of Applied Crystallography*, **2007**, 40, 1113-1122	3.8	38
16	Use of a "caged" analogue to study the traffic of choline within acetylcholinesterase by kinetic crystallography. *Acta Crystallographica Section D: Biological Crystallography*, **2007**, 63, 1115-28		38
15	X-ray radiation-induced damage in DNA monitored by online Raman. *Journal of Synchrotron Radiation*, **2007**, 14, 99-108	2.4	30
14	Raman-assisted crystallography reveals end-on peroxide intermediates in a nonheme iron enzyme. *Science*, **2007**, 316, 449-53	33.3	134
13	Time-resolved methods in biophysics. 6. Time-resolved Laue crystallography as a tool to investigate photo-activated protein dynamics. *Photochemical and Photobiological Sciences*, **2007**, 6, 1047-56	4.2	32
12	Extended subnanosecond structural dynamics of myoglobin revealed by Laue crystallography. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 4924-9	11.5	104
11	Advances in kinetic protein crystallography. *Current Opinion in Structural Biology*, **2005**, 15, 538-47	8.1	112
10	Structure of superoxide reductase bound to ferrocyanide and active site expansion upon X-ray-induced photo-reduction. *Structure*, **2004**, 12, 1729-40	5.2	84
9	Temperature derivative fluorescence spectroscopy as a tool to study dynamical changes in protein crystals. *Biophysical Journal*, **2004**, 86, 3176-85	2.9	30
8	Complex landscape of protein structural dynamics unveiled by nanosecond Laue crystallography. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 8704-9	11.5	184
7	A microspectrophotometer for UV–visible absorption and fluorescence studies of protein crystals. *Journal of Applied Crystallography*, **2002**, 35, 319-326	3.8	53

6	Cryophotolysis of caged compounds: a technique for trapping intermediate states in protein crystals. *Acta Crystallographica Section D: Biological Crystallography*, **2002**, 58, 607-14		28
5	Protein conformational relaxation and ligand migration in myoglobin: a nanosecond to millisecond molecular movie from time-resolved Laue X-ray diffraction. *Biochemistry*, **2001**, 40, 13802-15	3.2	296
4	Towards automated Laue data processing: application to the choice of optimal X-ray spectrum. *Acta Crystallographica Section D: Biological Crystallography*, **2000**, 56, 973-85		23
3	Laue crystallography: coming of age. *Journal of Synchrotron Radiation*, **1999**, 6, 891-917	2.4	102
2	Cell morphology and nucleoid dynamics in dividing D. radiodurans		1
1	mEos4b Photoconversion Efficiency Depends on Laser Illumination Conditions Used in PALM. *Journal of Physical Chemistry Letters*,5075-5080	6.4	0