Virgile Adam

List of Publications by Year in Descending Order

38 papers	1,628 citations	23 h-index	40 g-index
44 ext. papers	1,890 ext. citations	8.4 avg, IF	4.39 L-index

#	Paper	IF	Citations
38	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
37	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
36	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
35	Photoswitching mechanism of a fluorescent protein revealed by time-resolved crystallography and transient absorption spectroscopy. *Nature Communications*, **2020**, 11, 741	17.4	23
34	Mechanistic investigation of mEos4b reveals a strategy to reduce track interruptions in sptPALM. *Nature Methods*, **2019**, 16, 707-710	21.6	23
33	NMR Reveals Light-Induced Changes in the Dynamics of a Photoswitchable Fluorescent Protein. *Biophysical Journal*, **2019**, 117, 2087-2100	2.9	5
32	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
31	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
30	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
29	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
28	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
27	Remodeling of the Z-Ring Nanostructure during the Streptococcus pneumoniae Cell Cycle Revealed by Photoactivated Localization Microscopy. *MBio*, **2015**, 6,	7.8	52
26	Rational design of enhanced photoresistance in a photoswitchable fluorescent protein. *Methods and Applications in Fluorescence*, **2015**, 3, 014004	3.1	15
25	Phototransformable fluorescent proteins: which one for which application?. *Histochemistry and Cell Biology*, **2014**, 142, 19-41	2.4	16
24	Excited state dynamics of the photoconvertible fluorescent protein Kaede revealed by ultrafast spectroscopy. *Photochemical and Photobiological Sciences*, **2014**, 13, 867-74	4.2	10
23	Phototransformable fluorescent proteins: Future challenges. *Current Opinion in Chemical Biology*, **2014**, 20, 92-102	9.7	57
22	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

21	Structural basis of photoswitching in fluorescent proteins. *Methods in Molecular Biology*, **2014**, 1148, 177-202	1.4	13
20	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
19	Revealing the excited-state dynamics of the fluorescent protein Dendra2. *Journal of Physical Chemistry B*, **2013**, 117, 2300-13	3.4	18
18	Photoactivated structural dynamics of fluorescent proteins. *Biochemical Society Transactions*, **2012**, 40, 531-8	5.1	19
17	Reversible photoswitching in fluorescent proteins: a mechanistic view. *IUBMB Life*, **2012**, 64, 482-91	4.7	101
16	Rational design of photoconvertible and biphotochromic fluorescent proteins for advanced microscopy applications. *Chemistry and Biology*, **2011**, 18, 1241-51		79
15	The nature of transient dark states in a photoactivatable fluorescent protein. *Journal of the American Chemical Society*, **2011**, 133, 18586-9	16.4	31
14	From EosFP to mIrisFP: structure-based development of advanced photoactivatable marker proteins of the GFP-family. *Journal of Biophotonics*, **2011**, 4, 377-90	3.1	41
13	Low-temperature switching by photoinduced protonation in photochromic fluorescent proteins. *Photochemical and Photobiological Sciences*, **2010**, 9, 254-62	4.2	30
12	Data storage based on photochromic and photoconvertible fluorescent proteins. *Journal of Biotechnology*, **2010**, 149, 289-98	3.7	52
11	Structural basis of enhanced photoconversion yield in green fluorescent protein-like protein Dendra2. *Biochemistry*, **2009**, 48, 4905-15	3.2	84
10	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
9	Cryophotolysis of a caged oxygen compound for use in low temperature biological studies. *Photochemical and Photobiological Sciences*, **2009**, 8, 1150-6	4.2	9
8	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
7	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
6	Advances in spectroscopic methods for biological crystals. 1. Fluorescence lifetime measurements. *Journal of Applied Crystallography*, **2007**, 40, 1105-1112	3.8	47
5	Raman-assisted crystallography reveals end-on peroxide intermediates in a nonheme iron enzyme. *Science*, **2007**, 316, 449-53	33.3	134
4	Detoxification of superoxide without production of H2O2: antioxidant activity of superoxide reductase complexed with ferrocyanide. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 14750-5	11.5	21

3	The crystal structure of Mycobacterium tuberculosis thymidylate kinase in complex with 3aazidodeoxythymidine monophosphate suggests a mechanism for competitive inhibition. *Biochemistry*, **2005**, 44, 130-7	3.2	34
2	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
1	A microspectrophotometer for UV□isible absorption and fluorescence studies of protein crystals. *Journal of Applied Crystallography*, **2002**, 35, 319-326	3.8	53