Virgile Adam

List of Publications by Year
in descending order

40 papers	2,067 citations	236833 25 h-index	315616 38 g-index
44 all docs	44 docs citations	44 times ranked	2402 citing authors

#	Article	IF	Citations
1	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, 18343-18348.	3.3	211
2	Chromophore twisting in the excited state of a photoswitchable fluorescent protein captured by time-resolved serial femtosecond crystallography. Nature Chemistry, 2018, 10, 31-37.	6.6	152
3	Raman-Assisted Crystallography Reveals End-On Peroxide Intermediates in a Nonheme Iron Enzyme. Science, 2007, 316, 449-453.	6.0	142
4	Reversible photoswitching in fluorescent proteins: A mechanistic view. IUBMB Life, 2012, 64, 482-491.	1.5	130
5	Structural Basis of Enhanced Photoconversion Yield in Green Fluorescent Protein-like Protein Dendra2. Biochemistry, 2009, 48, 4905-4915.	1.2	100
6	Rational Design of Photoconvertible and Biphotochromic Fluorescent Proteins for Advanced Microscopy Applications. Chemistry and Biology, 2011, 18, 1241-1251.	6.2	96
7	Structure of Superoxide Reductase Bound to Ferrocyanide and Active Site Expansion upon X-Ray-Induced Photo-Reduction. Structure, 2004, 12, 1729-1740.	1.6	91
8	Phototransformable fluorescent proteins: Future challenges. Current Opinion in Chemical Biology, 2014, 20, 92-102.	2.8	73
9	A microspectrophotometer for UVâ€“visible absorption and fluorescence studies of protein crystals. Journal of Applied Crystallography, 2002, 35, 319-326.	1.9	71
10	Structural Basis of X-ray-Induced Transient Photobleaching in a Photoactivatable Green Fluorescent Protein. Journal of the American Chemical Society, 2009, 131, 18063-18065.	6.6	66
11	Remodeling of the Z-Ring Nanostructure during the Streptococcus pneumoniae Cell Cycle Revealed by Photoactivated Localization Microscopy. MBio, 2015, 6, .	1.8	63
12	Data storage based on photochromic and photoconvertible fluorescent proteins. Journal of Biotechnology, 2010, 149, 289-298.	1.9	62
13	Structural Evidence for a Two-Regime Photobleaching Mechanism in a Reversibly Switchable Fluorescent Protein. Journal of the American Chemical Society, 2013, 135, 15841-15850.	6.6	61
14	Advances in spectroscopic methods for biological crystals. 1. Fluorescence lifetime measurements. Journal of Applied Crystallography, 2007, 40, 1105-1112.	1.9	57
15	Photoswitching mechanism of a fluorescent protein revealed by time-resolved crystallography and transient absorption spectroscopy. Nature Communications, 2020, 11, 741.	5.8	56
16	Rational design of ultrastable and reversibly photoswitchable fluorescent proteins for super-resolution imaging of the bacterial periplasm. Scientific Reports, 2016, 6, 18459.	1.6	51
17	Arginine 66 Controls Dark-State Formation in Green-to-Red Photoconvertible Fluorescent Proteins. Journal of the American Chemical Society, 2016, 138, 558-565.	6.6	48
18	From EosFP to mIrisFP: structureâ€based development of advanced photoactivatable marker proteins of the GFPâ€family. Journal of Biophotonics, 2011, 4, 377-390.	1.1	43

#	Article	IF	Citations
19	Serial Femtosecond Crystallography and Ultrafast Absorption Spectroscopy of the Photoswitchable Fluorescent Protein IrisFP. Journal of Physical Chemistry Letters, 2016, 7, 882-887.	2.1	43
20	Mechanistic investigation of mEos4b reveals a strategy to reduce track interruptions in sptPALM. Nature Methods, 2019, 16, 707-710.	9.0	43
21	The Crystal Structure ofMycobacterium tuberculosisThymidylate Kinase in Complex with 3â€˜-Azidodeoxythymidine Monophosphate Suggests a Mechanism for Competitive Inhibitionâ€‚â€¡. Biochemistry, 2005, 44, 130-137.	1.2	40
22	The Nature of Transient Dark States in a Photoactivatable Fluorescent Protein. Journal of the American Chemical Society, 2011, 133, 18586-18589.	6.6	40
23	Low-temperature switching by photoinduced protonation in photochromic fluorescent proteins. Photochemical and Photobiological Sciences, 2010, 9, 254-262.	1.6	38
24	Photoconversion of the Fluorescent Protein EosFP: A Hybrid Potential Simulation Study Reveals Intersystem Crossings. Journal of the American Chemical Society, 2009, 131, 16814-16823.	6.6	36
25	In cellulo Evaluation of Phototransformation Quantum Yields in Fluorescent Proteins Used As Markers for Single-Molecule Localization Microscopy. PLoS ONE, 2014, 9, e98362.	1.1	30
26	Mechanistic Investigations of Green mEos4b Reveal a Dynamic Long-Lived Dark State. Journal of the American Chemical Society, 2020, 142, 10978-10988.	6.6	29
27	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, 14750-14755.	3.3	28
28	Photoactivated structural dynamics of fluorescent proteins. Biochemical Society Transactions, 2012, 40, 531-538.	1.6	21
29	Revealing the Excited-State Dynamics of the Fluorescent Protein Dendra2. Journal of Physical Chemistry B, 2013, 117, 2300-2313.	1.2	21
30	Phototransformable fluorescent proteins: which one for which application?. Histochemistry and Cell Biology, 2014, 142, 19-41.	0.8	21
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.	2.1	20
32	Rational design of enhanced photoresistance in a photoswitchable fluorescent protein. Methods and Applications in Fluorescence, 2015, 3, 014004.	1.1	16
33	Structural Basis of Photoswitching in Fluorescent Proteins. Methods in Molecular Biology, 2014, 1148, 177-202.	0.4	15
34	Excited state dynamics of the photoconvertible fluorescent protein Kaede revealed by ultrafast spectroscopy. Photochemical and Photobiological Sciences, 2014, 13, 867-874.	1.6	14
35	Cryophotolysis of a caged oxygen compound for use in low temperature biological studies. Photochemical and Photobiological Sciences, 2009, 8, 1150-1156.	1.6	10
36	NMR Reveals Light-Induced Changes in the Dynamics of a Photoswitchable Fluorescent Protein. Biophysical Journal, 2019, 117, 2087-2100.	0.2	10

#	Article	IF	Citations
37	Supramolecular assembly of the Escherichia coli LdcI upon acid stress. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	9
38	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.	6.6	7
39	Trapping a long-lived dark state in photoconvertible fluorescent protein mEos4b. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C653-C653.	0.0	0
40	Time-resolved serial femtosecond crystallography on photoswitchable fluorescent proteins. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s39-s39.	0.0	0