

Keith R Moffat

List of Publications by Citations

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37
papers

2,585
citations

20
h-index

42
g-index

42
ext. papers

2,948
ext. citations

11.7
avg, IF

4.69
L-index

#	Paper	IF	Citations
37	Structure of a protein photocycle intermediate by millisecond time-resolved crystallography. <i>Science</i> , 1997 , 275, 1471-5	33.3	394
36	Time-resolved serial crystallography captures high-resolution intermediates of photoactive yellow protein. <i>Science</i> , 2014 , 346, 1242-6	33.3	338
35	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
34	Femtosecond structural dynamics drives the trans/cis isomerization in photoactive yellow protein. <i>Science</i> , 2016 , 352, 725-9	33.3	276
33	Crystal structure of <i>Pseudomonas aeruginosa</i> bacteriophytochrome: photoconversion and signal transduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 14715-20	11.5	256
32	Management of multimorbidity using a patient-centred care model: a pragmatic cluster-randomised trial of the 3D approach. <i>Lancet, The</i> , 2018 , 392, 41-50	40	163
31	Crystal structure of the chromophore binding domain of an unusual bacteriophytochrome, RpBphP3, reveals residues that modulate photoconversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 12571-6	11.5	153
30	Temperature-scan cryocrystallography reveals reaction intermediates in bacteriophytochrome. <i>Nature</i> , 2011 , 479, 428-32	50.4	130
29	Challenges of managing people with multimorbidity in today's healthcare systems. <i>BMC Family Practice</i> , 2015 , 16, 129	2.6	92
28	Astrocytes, but not olfactory ensheathing cells or Schwann cells, promote myelination of CNS axons in vitro. <i>Glia</i> , 2008 , 56, 750-63	9	74
27	Initial trajectory of carbon monoxide after photodissociation from myoglobin at cryogenic temperatures. <i>Biochemistry</i> , 1997 , 36, 12087-100	3.2	56
26	The frontiers of time-resolved macromolecular crystallography: movies and chirped X-ray pulses. <i>Faraday Discussions</i> , 2003 , 122, 65-77; discussion 79-88	3.6	39
25	The primary structural photoresponse of phytochrome proteins captured by a femtosecond X-ray laser. <i>ELife</i> , 2020 , 9,	8.9	37
24	Light Signaling Mechanism of Two Tandem Bacteriophytochromes. <i>Structure</i> , 2015 , 23, 1179-89	5.2	35
23	FTIR Spectroscopy Revealing Light-Dependent Refolding of the Conserved Tongue Region of Bacteriophytochrome. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2512-2515	6.4	35
22	Time-resolved crystallography and protein design: signalling photoreceptors and optogenetics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130568	5.8	30
21	The room temperature crystal structure of a bacterial phytochrome determined by serial femtosecond crystallography. <i>Scientific Reports</i> , 2016 , 6, 35279	4.9	29

20	Interactive digital interventions to promote self-management in adults with asthma: systematic review and meta-analysis. <i>BMC Pulmonary Medicine</i> , 2016 , 16, 83	3.5	29
19	Optical monitoring of protein crystals in time-resolved x-ray experiments: Microspectrophotometer design and performance. <i>Review of Scientific Instruments</i> , 1994 , 65, 1506-1511	1.7	26
18	Reply to contradictions in X-ray structures of intermediates in the photocycle of photoactive yellow protein. <i>Nature Chemistry</i> , 2014 , 6, 259-60	17.6	20
17	Structural basis for light control of cell development revealed by crystal structures of a myxobacterial phytochrome. <i>IUCrJ</i> , 2018 , 5, 619-634	4.7	20
16	Bacteriophytochrome Photoisomerization Proceeds Homogeneously Despite Heterogeneity in Ground State. <i>Biophysical Journal</i> , 2016 , 111, 2125-2134	2.9	19
15	A patient-centred intervention to improve the management of multimorbidity in general practice: the 3D RCT. <i>Health Services and Delivery Research</i> , 2019 , 7, 1-238	1.5	8
14	Laue diffraction and time-resolved crystallography: a personal history. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180243	3	6
13	Purification and Initial Characterization of a Putative Blue Light-regulated Phosphodiesterase from <i>Escherichia coli</i> . <i>Photochemistry and Photobiology</i> , 2007 , 80, 542-547	3.6	5
12	Structure of the response regulator RPA3017 involved in red-light signaling in <i>Rhodospseudomonas palustris</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015 , 71, 1215-22	1.1	4
11	Improving management of gout in primary care using a customised electronic records template. <i>BMJ Quality Improvement Reports</i> , 2015 , 4,		3
10	Small is beautiful. <i>Nature Methods</i> , 2012 , 9, 242-3	21.6	2
9	Structural Heterogeneity of Cryotrapped Intermediates in the Bacterial Blue Light Photoreceptor, Photoactive Yellow Protein. <i>Photochemistry and Photobiology</i> , 2007 , 80, 7-14	3.6	2
8	Time-resolved macromolecular crystallography. <i>Synchrotron Radiation News</i> , 1996 , 9, 15-18	0.6	2
7	Structural biology is solved - now what?. <i>Nature Methods</i> , 2022 , 19, 24-26	21.6	2
6	Factors associated with recruitment to randomised controlled trials in general practice: protocol for a systematic review. <i>Trials</i> , 2019 , 20, 266	2.8	1
5	Femtosecond structural photobiology. <i>Science</i> , 2018 , 361, 127-128	33.3	1
4	X-ray crystallography at extremely low temperatures. <i>Nature Biotechnology</i> , 1995 , 13, 133	44.5	
3	Small crystals, fast dynamics and noisy data are indeed beautiful. <i>IUCrJ</i> , 2017 , 4, 303-305	4.7	

2 Design and signaling mechanism of light-regulated histidine kinases. *FASEB Journal*, **2009**, 23, LB275 0.9

1 Molecular mechanisms of signal transduction by PAS sensor proteins. *FASEB Journal*, **2009**, 23, LB282 0.9