

Keith R Moffat

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

3,280
citations

331538

21
h-index

360920

35
g-index

42
all docs

42
docs citations

42
times ranked

3768
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of a Protein Photocycle Intermediate by Millisecond Time-Resolved Crystallography. <i>Science</i> , 1997, 275, 1471-1475.	6.0	445
2	Time-resolved serial crystallography captures high-resolution intermediates of photoactive yellow protein. <i>Science</i> , 2014, 346, 1242-1246.	6.0	418
3	Femtosecond structural dynamics drives the trans/cis isomerization in photoactive yellow protein. <i>Science</i> , 2016, 352, 725-729.	6.0	348
4	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, 13802-13815.	1.2	329
5	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, 14715-14720.	3.3	293
6	Management of multimorbidity using a patient-centred care model: a pragmatic cluster-randomised trial of the 3D approach. <i>Lancet</i> , The, 2018, 392, 41-50.	6.3	254
7	Challenges of managing people with multimorbidity in today's healthcare systems. <i>BMC Family Practice</i> , 2015, 16, 129.	2.9	176
8	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, 12571-12576.	3.3	167
9	Temperature-scan cryocrystallography reveals reaction intermediates in bacteriophytochrome. <i>Nature</i> , 2011, 479, 428-432.	13.7	155
10	Astrocytes, but not olfactory ensheathing cells or Schwann cells, promote myelination of CNS axons <i>in vitro</i> . <i>Glia</i> , 2008, 56, 750-763.	2.5	83
11	The primary structural photoresponse of phytochrome proteins captured by a femtosecond X-ray laser. <i>ELife</i> , 2020, 9, .	2.8	78
12	Initial Trajectory of Carbon Monoxide after Photodissociation from Myoglobin at Cryogenic Temperatures. <i>Biochemistry</i> , 1997, 36, 12087-12100.	1.2	67
13	The frontiers of time-resolved macromolecular crystallography: movies and chirped X-ray pulses. <i>Faraday Discussions</i> , 2003, 122, 65-77.	1.6	51
14	FTIR Spectroscopy Revealing Light-Dependent Refolding of the Conserved Tongue Region of Bacteriophytochrome. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2512-2515.	2.1	49
15	Interactive digital interventions to promote self-management in adults with asthma: systematic review and meta-analysis. <i>BMC Pulmonary Medicine</i> , 2016, 16, 83.	0.8	44
16	Light Signaling Mechanism of Two Tandem Bacteriophytochromes. <i>Structure</i> , 2015, 23, 1179-1189.	1.6	42
17	The room temperature crystal structure of a bacterial phytochrome determined by serial femtosecond crystallography. <i>Scientific Reports</i> , 2016, 6, 35279.	1.6	39
18	Time-resolved crystallography and protein design: signalling photoreceptors and optogenetics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130568.	1.8	36

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19	Structural basis for light control of cell development revealed by crystal structures of a myxobacterial phytochrome. <i>IUCr</i> , 2018, 5, 619-634.	1.0	33
20	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.	0.6	29
21	Structural biology is solved – now what?. <i>Nature Methods</i> , 2022, 19, 24-26.	9.0	26
22	Reply to 'Contradictions in X-ray structures of intermediates in the photocycle of photoactive yellow protein'. <i>Nature Chemistry</i> , 2014, 6, 259-260.	6.6	23
23	Bacteriophytochrome Photoisomerization Proceeds Homogeneously Despite Heterogeneity in Ground State. <i>Biophysical Journal</i> , 2016, 111, 2125-2134.	0.2	21
24	Laue diffraction and time-resolved crystallography: a personal history. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180243.	1.6	17
25	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.	1.4	15
26	Light-induced protein structural dynamics in bacteriophytochrome revealed by time-resolved x-ray solution scattering. <i>Science Advances</i> , 2022, 8, .	4.7	10
27	Purification and Initial Characterization of a Putative Blue Light-regulated Phosphodiesterase from <i>Escherichia coli</i> . <i>Photochemistry and Photobiology</i> , 2004, 80, 542-547.	1.3	5
28	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, 1215-1222.	0.4	5
29	Factors associated with recruitment to randomised controlled trials in general practice: protocol for a systematic review. <i>Trials</i> , 2019, 20, 266.	0.7	5
30	Improving management of gout in primary care using a customised electronic records template. <i>BMJ Quality Improvement Reports</i> , 2015, 4, u204832.w2038.	0.8	4
31	Structural Heterogeneity of Cryotrapped Intermediates in the Bacterial Blue Light Photoreceptor, Photoactive Yellow Protein. <i>Photochemistry and Photobiology</i> , 2004, 80, 7-14.	1.3	3
32	Time-resolved macromolecular crystallography. <i>Synchrotron Radiation News</i> , 1996, 9, 15-18.	0.2	2
33	Small is beautiful. <i>Nature Methods</i> , 2012, 9, 242-243.	9.0	2
34	Small crystals, fast dynamics and noisy data are indeed beautiful. <i>IUCr</i> , 2017, 4, 303-305.	1.0	2
35	Femtosecond structural photobiology. <i>Science</i> , 2018, 361, 127-128.	6.0	2
36	X-ray Crystallography at Extremely Low Temperatures. <i>Nature Biotechnology</i> , 1995, 13, 133-133.	9.4	0

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37	Design and signaling mechanism of light-regulated histidine kinases. FASEB Journal, 2009, 23, LB275.	0.2	0
38	Molecular mechanisms of signal transduction by PAS sensor proteins. FASEB Journal, 2009, 23, LB282.	0.2	0