

# David S Kliger

## List of Publications by Citations

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69  
papers

1,588  
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24  
h-index

37  
g-index

71  
ext. papers

1,694  
ext. citations

4.3  
avg, IF

4.13  
L-index

#	Paper	IF	Citations
69	Nanosecond photolysis of rhodopsin: evidence for a new, blue-shifted intermediate. <i>Biochemistry</i> , <b>1990</b> , 29, 1475-85	3.2	131
68	Effects of temperature on rhodopsin photointermediates from lumirhodopsin to metarhodopsin II. <i>Biochemistry</i> , <b>1993</b> , 32, 13861-72	3.2	79
67	Time-resolved circular dichroism studies of protein folding intermediates of cytochrome c. <i>Biochemistry</i> , <b>1998</b> , 37, 5589-98	3.2	67
66	Far-UV Time-Resolved Circular Dichroism Detection of Electron-Transfer-Triggered Cytochrome c Folding. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 3811-3817	16.4	66
65	Time-resolved absorption studies of native etiolated oat phytochrome. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 4569-4580	16.4	63
64	Unusual excitation intensity dependence of fluorescence of CdTe nanoparticles. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 12-16	3.9	55
63	Spectral and Kinetic Characterization of Visual Pigment Photointermediates. <i>Israel Journal of Chemistry</i> , <b>1995</b> , 35, 289-307	3.4	55
62	Photointermediates of visual pigments. <i>Journal of Bioenergetics and Biomembranes</i> , <b>1992</b> , 24, 201-10	3.7	54
61	Characterization of equilibrium intermediates in denaturant-induced unfolding of ferrous and ferric cytochromes c using magnetic circular dichroism, circular dichroism, and optical absorption spectroscopies. <i>Biopolymers</i> , <b>2000</b> , 57, 29-36	2.2	42
60	Spectroscopic evidence for nanosecond protein relaxation after photodissociation of myoglobin-CO. <i>Biochemistry</i> , <b>1998</b> , 37, 17527-36	3.2	42
59	Allosteric intermediates in hemoglobin. 2. Kinetic modeling of HbCO photolysis. <i>Biochemistry</i> , <b>1996</b> , 35, 8628-39	3.2	42
58	Effects of macromolecular crowding on burst phase kinetics of cytochrome c folding. <i>Biochemistry</i> , <b>2012</b> , 51, 9836-45	3.2	40
57	Effects of pH on rhodopsin photointermediates from lumirhodopsin to metarhodopsin II. <i>Biochemistry</i> , <b>1998</b> , 37, 6998-7005	3.2	40
56	Proton transfer reactions linked to rhodopsin activation. <i>Biochemistry</i> , <b>1998</b> , 37, 14237-44	3.2	40
55	Fast natural and magnetic circular dichroism spectroscopy. <i>Annual Review of Physical Chemistry</i> , <b>1997</b> , 48, 453-79	15.7	39
54	Absorption spectroscopy in studies of visual pigments: spectral and kinetic characterization of intermediates. <i>Methods in Enzymology</i> , <b>2000</b> , 315, 164-78	1.7	38
53	Nanosecond time-resolved spectroscopy of biomolecular processes. <i>Annual Review of Biophysics and Biomolecular Structure</i> , <b>1997</b> , 26, 327-55		37

52	Photolysis of rhodopsin results in deprotonation of its retinal Schiff's base prior to formation of metarhodopsin II. <i>Photochemistry and Photobiology</i> , <b>1992</b> , 56, 1135-44	3.6	37
51	Time-resolved circular dichroism of native oat phytochrome photointermediates. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 4581-4588	16.4	36
50	Mechanism of native oat phytochrome photoreversion: a time-resolved absorption investigation. <i>Biochemistry</i> , <b>1996</b> , 35, 843-50	3.2	29
49	Rhodopsin in nanodiscs has native membrane-like photointermediates. <i>Biochemistry</i> , <b>2011</b> , 50, 5086-91	3.2	24
48	Earliest Events in Protein Folding: Submicrosecond Secondary Structure Formation in Reduced Cytochrome c. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 8149-8155	2.8	24
47	Time-resolved near UV circular dichroism and absorption studies of carbonmonoxymyoglobin photolysis intermediates. <i>Inorganica Chimica Acta</i> , <b>1996</b> , 242, 149-158	2.7	24
46	Dynamics of the N-terminal alpha-helix unfolding in the photoreversion reaction of phytochrome A. <i>Biochemistry</i> , <b>1997</b> , 36, 4903-8	3.2	22
45	Photointermediates of the Rhodopsin S186A Mutant as a Probe of the Hydrogen-Bond Network in the Chromophore Pocket and the Mechanism of Counterion Switch. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 8843-8848	3.8	22
44	First Synthesis of Mn-Doped Cesium Lead Bromide Perovskite Magic Sized Clusters at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1162-1169	6.4	20
43	The pH dependence of heme pocket hydration and ligand rebinding kinetics in photodissociated carbonmonoxymyoglobin. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 14165-75	5.4	20
42	Nanosecond time-resolved circular dichroism measurements using an upconverted Ti:sapphire laser. <i>Review of Scientific Instruments</i> , <b>1996</b> , 67, 3010-3016	1.7	20
41	Ultrasensitive time-resolved linear dichroism spectral measurements using near-crossed linear polarizers. <i>Chemical Physics Letters</i> , <b>1994</b> , 224, 145-154	2.5	19
40	Microliter flow cell for measurement of irreversible optical absorbance transients. <i>Review of Scientific Instruments</i> , <b>1993</b> , 64, 2828-2833	1.7	18
39	Time-resolved spectroscopy of the early photolysis intermediates of rhodopsin Schiff base counterion mutants. <i>Biochemistry</i> , <b>1997</b> , 36, 1999-2009	3.2	17
38	Two intermediates appear on the lumirhodopsin time scale after rhodopsin photoexcitation. <i>Biochemistry</i> , <b>2003</b> , 42, 5091-8	3.2	16
37	pH dependence of photolysis intermediates in the photoactivation of rhodopsin mutant E113Q. <i>Biochemistry</i> , <b>2000</b> , 39, 599-606	3.2	16
36	Steric barrier to bathorhodopsin decay in 5-demethyl and mesityl analogues of rhodopsin. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 10024-9	16.4	15
35	Nanosecond time-resolved polarization spectroscopies: tools for probing protein reaction mechanisms. <i>Methods</i> , <b>2010</b> , 52, 3-11	4.6	13

34	Schiff base protonation changes in Siberian hamster ultraviolet cone pigment photointermediates. <i>Biochemistry</i> , <b>2012</b> , 51, 2630-7	3.2	12
33	Femtosecond Studies of Electronic Relaxation, Vibrational Relaxation, and Rotational Diffusion in all-trans-1,8-Diphenyl-1,3,5,7-octatetraene. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 2388-2393	2.8	11
32	Lumi I --> Lumi II: the last detergent independent process in rhodopsin photoexcitation. <i>Photochemistry and Photobiology</i> , <b>2006</b> , 82, 1436-41	3.6	11
31	Lumi I -> Lumi II: The Last Detergent Independent Process in Rhodopsin Photoexcitation. <i>Photochemistry and Photobiology</i> , <b>2006</b> , 82, 1436-1441	3.6	9
30	Direct evidence for an equilibrium between early photolysis intermediates of rhodopsin. <i>Journal of the American Chemical Society</i> , <b>1990</b> , 112, 6711-6712	16.4	8
29	Platymonas subcordiformis Channelrhodopsin-2 Function: I. THE PHOTOCHEMICAL REACTION CYCLE. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 16573-84	5.4	7
28	Platymonas subcordiformis Channelrhodopsin-2 (PsChR2) Function: II. RELATIONSHIP OF THE PHOTOCHEMICAL REACTION CYCLE TO CHANNEL CURRENTS. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 16585-94	5.4	7
27	Effect of NADPH on formation and decay of human metarhodopsin III at physiological temperatures. <i>Vision Research</i> , <b>2000</b> , 40, 3039-48	2.1	7
26	Theory of natural circular dichroism in molecules oriented by photoselection. <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 8602-8613	3.9	7
25	Complexity of Bovine Rhodopsin Activation Revealed at Low Temperature and Alkaline pH. <i>Biochemistry</i> , <b>2016</b> , 55, 5095-105	3.2	6
24	Role of Heme Pocket Water in Allosteric Regulation of Ligand Reactivity in Human Hemoglobin. <i>Biochemistry</i> , <b>2016</b> , 55, 4005-17	3.2	6
23	Time-Resolved Linear Dichroism Measurements of Carbonmonoxy Myoglobin as a Probe of the Microviscosity in Crowded Environments. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 7064-7074	3.4	6
22	Protein Sequence and Membrane Lipid Roles in the Activation Kinetics of Bovine and Human Rhodopsins. <i>Biophysical Journal</i> , <b>2017</b> , 113, 1934-1944	2.9	6
21	Early photolysis intermediates of gecko and bovine artificial visual pigments. <i>Biochemistry</i> , <b>1997</b> , 36, 14593-600	3.2	6
20	Absorbance changes by aromatic amino acid side chains in early rhodopsin photointermediates. <i>Photochemistry and Photobiology</i> , <b>1997</b> , 66, 741-6	3.6	6
19	Effect of Digitonin on the Rhodopsin Meta I/Meta II Equilibrium. <i>Photochemistry and Photobiology</i> , <b>2005</b> , 81, 866	3.6	6
18	Effect of digitonin on the rhodopsin meta I-meta II equilibrium. <i>Photochemistry and Photobiology</i> , <b>2005</b> , 81, 866-73	3.6	6
17	Using chiral peptide substitutions to probe the structure function relationship of a key residue of A $\beta$ 2. <i>Chirality</i> , <b>2017</b> , 29, 5-9	2.1	5

16	Venus Dimers Behave Coherently at Room Temperature. <i>Biophysical Journal</i> , <b>2019</b> , 116, 1918-1930	2.9	5
15	A Comparison between the Photoactivation Kinetics of Human and Bovine Rhodopsins. <i>Biochemistry</i> , <b>2016</b> , 55, 7005-7013	3.2	5
14	The Effects of Octanol on the Late Photointermediates of Rhodopsin. <i>Photochemistry and Photobiology</i> , <b>1998</b> , 68, 762-770	3.6	5
13	Probing kinetic mechanisms of protein function and folding with time-resolved natural and magnetic chiroptical spectroscopies. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 683-97	6.3	4
12	Solvent and temperature effects on the excited singlet state absorption of diphenylbutadiene. <i>Photochemistry and Photobiology</i> , <b>1992</b> , 56, 953-8	3.6	4
11	Membrane Curvature Revisited-the Archetype of Rhodopsin Studied by Time-Resolved Electronic Spectroscopy. <i>Biophysical Journal</i> , <b>2021</b> , 120, 440-452	2.9	4
10	Enhancing Solar-Driven Water Splitting with Surface-Engineered Nanostructures. <i>Solar Rrl</i> , <b>2018</b> , 3, 1800285	2.5	4
9	Structural constraints imposed by a non-native disulfide cause reversible changes in rhodopsin photointermediate kinetics. <i>Biochemistry</i> , <b>2000</b> , 39, 7851-5	3.2	3
8	Theory of magnetic circular dichroism in molecules oriented by photoselection. <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 6930-6937	3.9	3
7	Microviscosity in E. coli Cells from Time-Resolved Linear Dichroism Measurements. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 11381-11389	3.4	2
6	Effect of Digitonin on the Rhodopsin Meta I-Meta II Equilibrium. <i>Photochemistry and Photobiology</i> , <b>2007</b> , 81, 866-873	3.6	2
5	Kinetic and spectroscopic analysis of early events in protein folding. <i>Methods in Enzymology</i> , <b>2004</b> , 380, 308-27	1.7	2
4	Functional integrity of membrane protein rhodopsin solubilized by styrene-maleic acid copolymer. <i>Biophysical Journal</i> , <b>2021</b> , 120, 3508-3515	2.9	2
3	Nanosecond Time-Resolved Natural and Magnetic Chiroptical Spectroscopies <b>2012</b> , 179-201		1
2	Styrene-maleic acid copolymer effects on the function of the GPCR rhodopsin in lipid nanoparticles. <i>Biophysical Journal</i> , <b>2021</b> , 120, 4337-4348	2.9	1
1	Pump-Probe Circular Dichroism Spectroscopy of Cyanobacteriochrome TePixJ Yields: Insights into Its Photoconversion. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 202-210	3.4	0