Johann P Klare

List of Publications by Year
in descending order

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86	3,217	218381	161609
papers	citations	26 h-index	54 g-index

98	98	98	3189
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular basis of transmembrane signalling by sensory rhodopsin IIâ€“transducer complex. Nature, 2002, 419, 484-487.	13.7	380
2	Nitrite reductase activity of myoglobin regulates respiration and cellular viability in myocardial ischemia-reperfusion injury. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10256-10261.	3.3	376
3	Spin labeling EPR. Photosynthesis Research, 2009, 102, 377-390.	1.6	223
4	Nitrite Regulates Hypoxic Vasodilation via Myoglobin-Dependent Nitric Oxide Generation. Circulation, 2012, 126, 325-334.	1.6	173
5	Development of the signal in sensory rhodopsin and its transfer to the cognate transducer. Nature, 2006, 440, 115-119.	13.7	169
6	Structural insights into the early steps of receptor-transducer signal transfer in archaeal phototaxis. EMBO Journal, 2001, 20, 5312-5319.	3.5	164
7	The archaeal sensory rhodopsin II/transducer complex: a model for transmembrane signal transfer. FEBS Letters, 2004, 564, 219-224.	1.3	103
8	Microbial Rhodopsins: Scaffolds for Ion Pumps, Channels, and Sensors. , 2008, 45, 73-122.		78
9	Site-directed spin labeling EPR spectroscopy in protein research. Biological Chemistry, 2013, 394, 1281-1300.	1.2	78
10	Structural Analysis of a HAMP Domain. Journal of Biological Chemistry, 2005, 280, 38767-38775.	1.6	66
11	Sensory rhodopsin II and bacteriorhodopsin: Light activated helix F movement. Photochemical and Photobiological Sciences, 2004, 3, 543.	1.6	64
12	Simulation vs. Reality: A Comparison of In Silico Distance Predictions with DEER and FRET Measurements. PLoS ONE, 2012, 7, e39492.	1.1	64
13	Interconversion between bound and free conformations of LexA orchestrates the bacterial SOS response. Nucleic Acids Research, 2011, 39, 6546-6557.	6.5	61
14	Probing the Sensory Rhodopsin II Binding Domain of its Cognate Transducer by Calorimetry and Electrophysiology. Journal of Molecular Biology, 2003, 330, 1203-1213.	2.0	57
15	Orthogonal spin labeling using click chemistry for in vitro and in vivo applications. Journal of Magnetic Resonance, 2017, 275, 38-45.	1.2	54
16	RNA-Binding to Archaeal RNA Polymerase Subunits F/E: A DEER and FRET Study. Journal of the American Chemical Society, 2010, 132, 5954-5955.	6.6	49
17	An Electron Paramagnetic Resonance Spectroscopic Investigation on the Growth Mechanism of NaYF‹sub›4‹/sub›:Gd Nanocrystals. Angewandte Chemie - International Edition, 2012, 51, 6506-6510.	7.2	47
18	In vivo EPR on spin labeled colicin A reveals an oligomeric assembly of the pore-forming domain in E. coli membranes. Physical Chemistry Chemical Physics, 2015, 17, 4875-4878.	1.3	45

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19	Effects of Solubilization on the Structure and Function of the Sensory Rhodopsin II/Transducer Complex. Journal of Molecular Biology, 2006, 356, 1207-1221.	2.0	44
20	Salt-driven Equilibrium between Two Conformations in the HAMP Domain from Natronomonas pharaonis. Journal of Biological Chemistry, 2008, 283, 28691-28701.	1.6	43
21	Triphosphate Induced Dimerization of Human Guanylate Binding Protein 1 Involves Association of the C-Terminal Helices: A Joint Double Electronâ€“Electron Resonance and FRET Study. Biochemistry, 2014, 53, 4590-4600.	1.2	42
22	Kissing G Domains of MnmE Monitored by X-Ray Crystallography and Pulse Electron Paramagnetic Resonance Spectroscopy. PLoS Biology, 2009, 7, e1000212.	2.6	40
23	Ferredoxin:NADP(H) Oxidoreductase Abundance and Location Influences Redox Poise and Stress Tolerance. Plant Physiology, 2016, 172, 1480-1493.	2.3	39
24	Translational Diffusion and Interaction of a Photoreceptor and Its Cognate Transducer Observed in Giant Unilamellar Vesicles by Using Dualâ€Focus FCS. ChemBioChem, 2009, 10, 1823-1829.	1.3	33
25	Transducer Binding Establishes Localized Interactions to Tune Sensory Rhodopsin II. Structure, 2008, 16, 1206-1213.	1.6	30
26	Transmembrane signal transduction in archaeal phototaxis: The sensory rhodopsin II-transducer complex studied by electron paramagnetic resonance spectroscopy. European Journal of Cell Biology, 2011, 90, 731-739.	1.6	30
27	Stabilization of G Domain Conformations in the tRNA-modifying MnmE-GidA Complex Observed with Double Electron Electron Resonance Spectroscopy. Journal of Biological Chemistry, 2010, 285, 16991-17000.	1.6	29
28	Probing the Proton Channel and the Retinal Binding Site of Natronobacterium pharaonis Sensory Rhodopsin II. Biophysical Journal, 2002, 82, 2156-2164.	0.2	25
29	Lightâ€induced switching of HAMP domain conformation and dynamics revealed by timeâ€resolved EPR spectroscopy. FEBS Letters, 2014, 588, 3970-3976.	1.3	24
30	New Insights on Signal Propagation by Sensory Rhodopsin II/Transducer Complex. Scientific Reports, 2017, 7, 41811.	1.6	24
31	Analysis of Light-Induced Conformational Changes of Natronomonas pharaonis Sensory Rhodopsin II by Time Resolved Electron Paramagnetic Resonance Spectroscopyâ€. Photochemistry and Photobiology, 2007, 83, 263-272.	1.3	23
32	In cell Gd³⁺-based site-directed spin labeling and EPR spectroscopy of eGFP. Physical Chemistry Chemical Physics, 2020, 22, 13358-13362.	1.3	23
33	Hydrogen bonding of nitroxide spin labels in membrane proteins. Physical Chemistry Chemical Physics, 2014, 16, 15910-15916.	1.3	20
34	Sensory Rhodopsin I and Sensory Rhodopsin <scp>II</scp> Form Trimers of Dimers in Complex with their Cognate Transducers. Photochemistry and Photobiology, 2017, 93, 796-804.	1.3	20
35	Extracellular Loop 4 of the Proline Transporter PutP Controls the Periplasmic Entrance to Ligand Binding Sites. Structure, 2014, 22, 769-780.	1.6	19
36	Conformational Dynamics of Sensory Rhodopsin <scp>II</scp> in Nanolipoprotein and Styreneâ€“Maleic Acid Lipid Particles. Photochemistry and Photobiology, 2019, 95, 1195-1204.	1.3	19

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37	Water splitting mediated by an electrocatalytically driven cyclic process involving iron oxide species. Journal of Materials Chemistry A, 2020, 8, 9896-9910.	5.2	19
38	Time-resolved resonance Raman spectroscopy of sensory rhodopsin II in the micro- and millisecond time range using gated cw excitation. Journal of Raman Spectroscopy, 2006, 37, 436-441.	1.2	17
39	Conformational heterogeneity of the Roc domains in C. tepidum Rocâ€“COR and implications for human LRRK2 Parkinson mutations. Bioscience Reports, 2015, 35, .	1.1	17
40	Consequences of Counterion Mutation in Sensory Rhodopsin II of Natronobacterium pharaonis for Photoreaction and Receptor Activation: An FTIR Study. Biochemistry, 2004, 43, 995-1002.	1.2	16
41	High-field EPR and site-directed spin labeling reveal a periodical polarity profile: The sequence 88 to 94 of the phototransducer NpHtrII in complex with sensory rhodopsin, NpSRII. Applied Magnetic Resonance, 2006, 30, 359-372.	0.6	16
42	Lipid dynamics in nanoparticles formed by maleic acid-containing copolymers: EPR spectroscopy and molecular dynamics simulations. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183207.	1.4	16
43	The Ras dimer structure. Chemical Science, 2021, 12, 8178-8189.	3.7	16
44	Thetransâ€“cis isomerization reaction dynamics in sensory rhodopsin II by femtosecond time-resolved midinfrared spectroscopy: Chromophore and protein dynamics. Biopolymers, 2006, 82, 358-362.	1.2	15
45	Topology of the amphipathic helices of the colicin A pore-forming domain in E. coli lipid membranes studied by pulse EPR. Physical Chemistry Chemical Physics, 2009, 11, 6770.	1.3	15
46	Signaling and Adaptation Modulate the Dynamics of the Photosensoric Complex of Natronomonas pharaonis. PLoS Computational Biology, 2015, 11, e1004561.	1.5	15
47	Sensory rhodopsin II/transducer complex formation in detergent and in lipid bilayers studied with FRET. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 522-531.	1.4	14
48	The Signal Transfer from the Receptor NpSRII to the Transducer NpHtrII IsÂNot Hampered by the D75N Mutation. Biophysical Journal, 2011, 100, 2275-2282.	0.2	13
49	Heme binding of transmembrane signaling proteins undergoing regulated intramembrane proteolysis. Communications Biology, 2020, 3, 73.	2.0	13
50	Conformational changes of the betaine transporter BetP from Corynebacterium glutamicum studied by pulse EPR spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 359-366.	1.4	12
51	Conformational changes of the histidine ATP-binding cassette transporter studied by double electronâ€“electron resonance spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1760-1768.	1.4	12
52	EPR Studies of Vâ€ATPase with Spinâ€Łabeled Inhibitors DCC and Archazolid: Interaction Dynamics with Proton Translocating Subunitâ€...c. ChemMedChem, 2016, 11, 420-428.	1.6	12
53	Characterization of multifunctional Î²-NaEuF₄/NaGdF₄ coreâ€“shell nanoparticles with narrow size distribution. Nanoscale, 2016, 8, 2832-2843.	2.8	12
54	Cytosolic BNIP3 Dimer Interacts with Mitochondrial BAX Forming Heterodimers in the Mitochondrial Outer Membrane under Basal Conditions. International Journal of Molecular Sciences, 2017, 18, 687.	1.8	12

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55	The Hydroxylamine Reaction of Sensory Rhodopsin II: Light-Induced Conformational Alterations with C13C14 Nonisomerizable Pigment. Biophysical Journal, 2005, 89, 2610-2617.	0.2	11
56	Expression of the halobacterial transducer protein HtrII fromNatronomonas pharaonisinEscherichia coli. FEBS Letters, 2007, 581, 1487-1494.	1.3	11
57	Conformational Changes in the Novel Redox Sensor Protein HbpS Studied by Site-Directed Spin Labeling and Its Turnover in Dependence on the Catalase-Peroxidase CpeB. Antioxidants and Redox Signaling, 2012, 16, 639-648.	2.5	11
58	Biomedical applications of electron paramagnetic resonance (EPR) spectroscopy. Biomedical Spectroscopy and Imaging, 2012, 1, 101-124.	1.2	11
59	Structural Information from Spin-Labelled Membrane-Bound Proteins. Structure and Bonding, 2013, , 205-248.	1.0	11
60	Clustering and Dynamics of Phototransducer Signaling Domains Revealed by Site-Directed Spin Labeling Electron Paramagnetic Resonance on SRII/HtrII in Membranes and Nanodiscs. Biochemistry, 2015, 54, 349-362.	1.2	11
61	Structural and Biochemical Characterization of a Dye-Decolorizing Peroxidase from Dictyostelium discoideum. International Journal of Molecular Sciences, 2021, 22, 6265.	1.8	11
62	Ground state structure of D75N mutant of sensory rhodopsin II in complex with its cognate transducer. Journal of Photochemistry and Photobiology B: Biology, 2013, 123, 55-58.	1.7	10
63	Accessing the distance range of interest in biomolecules: Site-directed spin labeling and DEER spectroscopy. Spectroscopy, 2010, 24, 283-288.	0.8	9
64	Assembly and Function of the tRNA-Modifying GTPase MnmE Adsorbed to Surface Functionalized Bioactive Glass. ACS Applied Materials & Interfaces, 2014, 6, 7615-7625.	4.0	9
65	Magnetic and Electronic Properties of Highly Mn-Doped Î²-NaGdF‹sub›4‹/sub› and Î²-NaEuF‹sub›4‹/sub› Nanoparticles with a Narrow Size Distribution. Journal of Physical Chemistry C, 2020, 124, 18194-18202.	1.5	9
66	The Crystal Structure of the C-Terminal Domain of the Salmonella enterica PduO Protein: An Old Fold with a New Heme-Binding Mode. Frontiers in Microbiology, 2016, 7, 1010.	1.5	8
67	Architecture of the pore forming toxin sticholysin I in membranes. Journal of Structural Biology, 2019, 208, 30-42.	1.3	8
68	Time-resolved methods in Biophysics. 1. A novel pump and probe surface-enhanced resonance Raman approach for studying biological photoreceptors. Photochemical and Photobiological Sciences, 2006, 5, 1103.	1.6	7
69	Primary Reaction of Sensory Rhodopsin II Mutant D75N and the Influence of Azide. Biochemistry, 2009, 48, 9677-9683.	1.2	5
70	Spin Labeling Studies of Transmembrane Signaling and Transport. Methods in Enzymology, 2015, 564, 315-347.	0.4	5
71	Dynamic interactions of CbiN and CbiM trigger activity of a cobalt energy-coupling-factor transporter. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183114.	1.4	5
72	Impact of ferredoxin:NADP(H) oxidoreductase on redox poise of the glutathione pool and Fenton reaction capacity of thylakoid membranes: A connection to pre-acquired acclimation in Arabidopsis. Free Radical Biology and Medicine, 2012, 53, S42.	1.3	4

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73	DEER Spectroscopy of Channelrhodopsin-2 Helix B Movements in Trapped Photocycle Intermediates. Applied Magnetic Resonance, 2022, 53, 731-743.	0.6	4
74	Comparative analysis of sensory rhodopsin II structures in complex with a transducer and without it. Journal of Surface Investigation, 2008, 2, 894-899.	0.1	3
75	Highlight: The physiology and dynamics of cellular microcompartments. Biological Chemistry, 2013, 394, 149-150.	1.2	1
76	Electron Paramagnetic Resonance of Membrane Proteins. , 2017, , 442-446.		1
77	Chemistry of Spin Labeling. , 2013, , 287-293.		1
78	Correction for Hendgen-Cotta et al. , Nitrite reductase activity of myoglobin regulates respiration and cellular viability in myocardial ischemia-reperfusion injury. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12636-12636.	3.3	0
79	Sensory Rhodopsin II: Signal Development and Transduction. , 2013, , 2312-2315.		0
80	Applications of Structural Biology and Bioinformatics in the Investigation of Oxidative Stress-Related Processes. , 2014, , 505-534.		0
81	Light-Induced Switching of HAMP Domain Conformation and Dynamics Revealed by Time-Resolved EPR Spectroscopy. Biophysical Journal, 2015, 108, 259a.	0.2	0
82	Mapping Motions and Structure to a State Necessary for Oligomerization of a Large GTPase: A Joint SAXS, NSE, EPR and FRET Study. Biophysical Journal, 2016, 110, 514a.	0.2	0
83	Primary Reaction of Sensory Rhodopsin II Mutant D75N. , 2006, , .		0
84	Primary Reaction of Sensory Rhodopsin II Mutant D75N. Springer Series in Chemical Physics, 2007, , 525-527.	0.2	0
85	Application of site-directed spin labelling for studying conformational changes in the catalytic cycle of G proteins activated by dimerization. Electron Paramagnetic Resonance, 2016, , 157-179.	0.2	0
86	Sensory Rhodopsin II: Signal Development and Transduction. , 2019, , 1-6.		0