

Daniel D Oprian

List of Publications by Year in descending order

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32
papers

3,160
citations

361045

20
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433756

31
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33
all docs

33
docs citations

33
times ranked

2398
citing authors

#	ARTICLE	IF	CITATIONS
1	Constitutively active mutants of rhodopsin. <i>Neuron</i> , 1992, 9, 719-725.	3.8	567
2	Rhodopsin mutation G90D and a molecular mechanism for congenital night blindness. <i>Nature</i> , 1994, 367, 639-642.	13.7	453
3	The structural basis of agonist-induced activation in constitutively active rhodopsin. <i>Nature</i> , 2011, 471, 656-660.	13.7	444
4	Heterozygous missense mutation in the rhodopsin gene as a cause of congenital stationary night blindness. <i>Nature Genetics</i> , 1993, 4, 280-283.	9.4	326
5	Stabilized G protein binding site in the structure of constitutively active metarhodopsin-II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 119-124.	3.3	226
6	Crystal Structure of a Thermally Stable Rhodopsin Mutant. <i>Journal of Molecular Biology</i> , 2007, 372, 1179-1188.	2.0	218
7	Constitutive Activation of Opsin: Interaction of Mutants with Rhodopsin Kinase and Arrestin. <i>Biochemistry</i> , 1995, 34, 11938-11945.	1.2	108
8	Spectral Tuning in the Human Blue Cone Pigment. <i>Biochemistry</i> , 1999, 38, 11593-11596.	1.2	91
9	Human nonvisual opsin 3 regulates pigmentation of epidermal melanocytes through functional interaction with melanocortin 1 receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11508-11517.	3.3	85
10	An Opsin Mutant with Increased Thermal Stability. <i>Biochemistry</i> , 2003, 42, 1995-2001.	1.2	83
11	Opsin activation as a cause of congenital night blindness. <i>Nature Neuroscience</i> , 2003, 6, 731-735.	7.1	65
12	Recoverin Binds Exclusively to an Amphipathic Peptide at the N Terminus of Rhodopsin Kinase, Inhibiting Rhodopsin Phosphorylation without Affecting Catalytic Activity of the Kinase. <i>Journal of Biological Chemistry</i> , 2006, 281, 19426-19432.	1.6	53
13	Conformational Selection in a Protein-Protein Interaction Revealed by Dynamic Pathway Analysis. <i>Cell Reports</i> , 2016, 14, 32-42.	2.9	52
14	State-Dependent Disulfide Cross-Linking in Rhodopsin. <i>Biochemistry</i> , 1999, 38, 12028-12032.	1.2	51
15	Functional and Structural Characterization of a (+)-Limonene Synthase from <i>Citrus sinensis</i> . <i>Biochemistry</i> , 2017, 56, 1706-1715.	1.2	41
16	Salamander UV cone pigment: Sequence, expression, and spectral properties. <i>Visual Neuroscience</i> , 2001, 18, 393-399.	0.5	37
17	Purification and Characterization of RhoPDE, a Retinylidene/Phosphodiesterase Fusion Protein and Potential Optogenetic Tool from the Choanoflagellate <i>Salpingoeca rosetta</i> . <i>Biochemistry</i> , 2017, 56, 5812-5822.	1.2	32
18	An improved rhodopsin/EGFP fusion protein for use in the generation of transgenic <i>Xenopus laevis</i> . <i>FEBS Letters</i> , 2003, 542, 142-146.	1.3	30

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19	Relocating the active-site lysine in rhodopsin and implications for evolution of retinylidene proteins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13351-13355.	3.3	29
20	Structural Characterization of Early Michaelis Complexes in the Reaction Catalyzed by (+)-Limonene Synthase from <i>Citrus sinensis</i> Using Fluorinated Substrate Analogues. Biochemistry, 2017, 56, 1716-1725.	1.2	27
21	A Highly Conserved Cysteine of Neuronal Calcium-sensing Proteins Controls Cooperative Binding of Ca ²⁺ to Recoverin. Journal of Biological Chemistry, 2013, 288, 36160-36167.	1.6	20
22	Expression, purification, and spectral tuning of RhoGC, a retinylidene/guanylyl cyclase fusion protein and optogenetics tool from the aquatic fungus <i>Blastocladiella emersonii</i> . Journal of Biological Chemistry, 2017, 292, 10379-10389.	1.6	20
23	Low aqueous solubility of 11-cis-retinal limits the rate of pigment formation and dark adaptation in salamander rods. Journal of General Physiology, 2012, 139, 493-505.	0.9	19
24	Preparation of an Activated Rhodopsin/Transducin Complex Using a Constitutively Active Mutant of Rhodopsin. Biochemistry, 2011, 50, 10399-10407.	1.2	16
25	Assembly of an Activated Rhodopsin-Transducin Complex in Nanoscale Lipid Bilayers. Biochemistry, 2014, 53, 127-134.	1.2	14
26	Structure and monomer/dimer equilibrium for the guanylyl cyclase domain of the optogenetics protein RhoGC. Journal of Biological Chemistry, 2017, 292, 21578-21589.	1.6	13
27	Mechanism Underlying Anti-Markovnikov Addition in the Reaction of Pentalenene Synthase. Biochemistry, 2020, 59, 3271-3283.	1.2	11
28	Phototaxis, chemotaxis and the missing link. Trends in Biochemical Sciences, 2003, 28, 167-169.	3.7	9
29	Crystal Structure of Recoverin with Calcium Ions Bound to Both Functional EF Hands. Biochemistry, 2015, 54, 7222-7228.	1.2	9
30	Direct Evidence of an Enzyme-Generated LPP Intermediate in (+)-Limonene Synthase Using a Fluorinated GPP Substrate Analog. ACS Chemical Biology, 2019, 14, 2035-2043.	1.6	8
31	Relocating the Active-Site Lysine in Rhodopsin: 2. Evolutionary Intermediates. Biochemistry, 2016, 55, 4864-4870.	1.2	3
32	Structure of the cGMP-gated channel. Behavioral and Brain Sciences, 1995, 18, 482-483.	0.4	0