

# Daniel D Oprian

## List of Publications by Year in descending order

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32  
papers

3,160  
citations

361413

20  
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434195

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g-index

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33  
docs citations

33  
times ranked

2398  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism Underlying Anti-Markovnikov Addition in the Reaction of Pentalenene Synthase. <i>Biochemistry</i> , 2020, 59, 3271-3283.	2.5	11
2	Direct Evidence of an Enzyme-Generated LPP Intermediate in (+)-Limonene Synthase Using a Fluorinated GPP Substrate Analog. <i>ACS Chemical Biology</i> , 2019, 14, 2035-2043.	3.4	8
3	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.	7.1	85
4	Functional and Structural Characterization of a (+)-Limonene Synthase from <i>Citrus sinensis</i> . <i>Biochemistry</i> , 2017, 56, 1706-1715.	2.5	41
5	Structural Characterization of Early Michaelis Complexes in the Reaction Catalyzed by (+)-Limonene Synthase from <i>Citrus sinensis</i> Using Fluorinated Substrate Analogues. <i>Biochemistry</i> , 2017, 56, 1716-1725.	2.5	27
6	Expression, purification, and spectral tuning of RhoGC, a retinylidene/guanylyl cyclase fusion protein and optogenetics tool from the aquatic fungus <i>Blastocladiella emersonii</i> . <i>Journal of Biological Chemistry</i> , 2017, 292, 10379-10389.	3.4	20
7	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.	2.5	32
8	Structure and monomer/dimer equilibrium for the guanylyl cyclase domain of the optogenetics protein RhoGC. <i>Journal of Biological Chemistry</i> , 2017, 292, 21578-21589.	3.4	13
9	Relocating the Active-Site Lysine in Rhodopsin: 2. Evolutionary Intermediates. <i>Biochemistry</i> , 2016, 55, 4864-4870.	2.5	3
10	Conformational Selection in a Protein-Protein Interaction Revealed by Dynamic Pathway Analysis. <i>Cell Reports</i> , 2016, 14, 32-42.	6.4	52
11	Crystal Structure of Recoverin with Calcium Ions Bound to Both Functional EF Hands. <i>Biochemistry</i> , 2015, 54, 7222-7228.	2.5	9
12	Assembly of an Activated Rhodopsin-Transducin Complex in Nanoscale Lipid Bilayers. <i>Biochemistry</i> , 2014, 53, 127-134.	2.5	14
13	A Highly Conserved Cysteine of Neuronal Calcium-sensing Proteins Controls Cooperative Binding of Ca <sup>2+</sup> to Recoverin. <i>Journal of Biological Chemistry</i> , 2013, 288, 36160-36167.	3.4	20
14	Relocating the active-site lysine in rhodopsin and implications for evolution of retinylidene proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13351-13355.	7.1	29
15	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.	7.1	226
16	Low aqueous solubility of 11-cis-retinal limits the rate of pigment formation and dark adaptation in salamander rods. <i>Journal of General Physiology</i> , 2012, 139, 493-505.	1.9	19
17	Preparation of an Activated Rhodopsin/Transducin Complex Using a Constitutively Active Mutant of Rhodopsin. <i>Biochemistry</i> , 2011, 50, 10399-10407.	2.5	16
18	The structural basis of agonist-induced activation in constitutively active rhodopsin. <i>Nature</i> , 2011, 471, 656-660.	27.8	444

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19	Crystal Structure of a Thermally Stable Rhodopsin Mutant. <i>Journal of Molecular Biology</i> , 2007, 372, 1179-1188.	4.2	218
20	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.	3.4	53
21	Phototaxis, chemotaxis and the missing link. <i>Trends in Biochemical Sciences</i> , 2003, 28, 167-169.	7.5	9
22	Opsin activation as a cause of congenital night blindness. <i>Nature Neuroscience</i> , 2003, 6, 731-735.	14.8	65
23	An Opsin Mutant with Increased Thermal Stability. <i>Biochemistry</i> , 2003, 42, 1995-2001.	2.5	83
24	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.	2.8	30
25	Salamander UV cone pigment: Sequence, expression, and spectral properties. <i>Visual Neuroscience</i> , 2001, 18, 393-399.	1.0	37
26	Spectral Tuning in the Human Blue Cone Pigment. <i>Biochemistry</i> , 1999, 38, 11593-11596.	2.5	91
27	State-Dependent Disulfide Cross-Linking in Rhodopsin. <i>Biochemistry</i> , 1999, 38, 12028-12032.	2.5	51
28	Structure of the cGMP-gated channel. <i>Behavioral and Brain Sciences</i> , 1995, 18, 482-483.	0.7	0
29	Constitutive Activation of Opsin: Interaction of Mutants with Rhodopsin Kinase and Arrestin. <i>Biochemistry</i> , 1995, 34, 11938-11945.	2.5	108
30	Rhodopsin mutation G90D and a molecular mechanism for congenital night blindness. <i>Nature</i> , 1994, 367, 639-642.	27.8	453
31	Heterozygous missense mutation in the rhodopsin gene as a cause of congenital stationary night blindness. <i>Nature Genetics</i> , 1993, 4, 280-283.	21.4	326
32	Constitutively active mutants of rhodopsin. <i>Neuron</i> , 1992, 9, 719-725.	8.1	567