Beata Jastrzebska

List of Publications by Year
in descending order

56 papers	2,646 citations	257450 24 h-index	189892 50 g-index
59 all docs	59 docs citations	59 times ranked	2471 citing authors

#	Article	IF	Citations
1	The vitamin A transporter STRA6 adjusts the stoichiometry of chromophore and opsins in visual pigment synthesis and recycling. Human Molecular Genetics, 2022, 31, 548-560.	2.9	9
2	Omicron SARS-CoV-2 Variant Spike Protein Shows an Increased Affinity to the Human ACE2 Receptor: An In Silico Analysis. Pathogens, 2022, 11, 45.	2.8	44
3	Flavonoids improve the stability and function of <scp>P23H</scp> rhodopsin slowing down the progression of retinitis pigmentosa in mice. Journal of Neuroscience Research, 2022, 100, 1063-1083.	2.9	11
4	Chromenone derivatives as novel pharmacological chaperones for retinitis pigmentosa-linked rod opsin mutants. Human Molecular Genetics, 2022, 31, 3439-3457.	2.9	2
5	Molecular basis for variations in the sensitivity of pathogenic rhodopsin variants to 9-cis-retinal. Journal of Biological Chemistry, 2022, 298, 102266.	3.4	7
6	Protective Effects of Flavonoids in Acute Models of Light-Induced Retinal Degeneration. Molecular Pharmacology, 2021, 99, 60-77.	2.3	23
7	Systematic profiling of temperature- and retinal-sensitive rhodopsin variants by deep mutational scanning. Journal of Biological Chemistry, 2021, 297, 101359.	3.4	9
8	Mutations in the SARS-CoV-2 spike protein modulate the virus affinity to the human ACE2 receptor, an analysis. EXCLI Journal, 2021, 20, 585-600.	0.7	11
9	Neuroinflammation as a Therapeutic Target in Retinitis Pigmentosa and Quercetin as Its Potential Modulator. Pharmaceutics, 2021, 13, 1935.	4.5	19
10	Rhodopsin as a Molecular Target to Mitigate Retinitis Pigmentosa. Advances in Experimental Medicine and Biology, 2021, , 61-77.	1.6	4
11	Supramolecular structure of opsins. , 2020, , 81-95.		1
12	Understanding Severe Acute Respiratory Syndrome Coronavirus 2 Replication to Design Efficient Drug Combination Therapies. Intervirology, 2020, 63, 2-9.	2.8	15
13	Class A G Protein-Coupled Receptor Antagonist Famotidine as a Therapeutic Alternative against SARS-CoV2: An In Silico Analysis. Biomolecules, 2020, 10, 954.	4.0	43
14	Retinoid analogs and polyphenols as potential therapeutics for age-related macular degeneration. Experimental Biology and Medicine, 2020, 245, 1615-1625.	2.4	6
15	Flavonoids enhance rod opsin stability, folding, and self-association by directly binding to ligand-free opsin and modulating its conformation. Journal of Biological Chemistry, 2019, 294, 8101-8122.	3.4	27
16	Specificity of the chromophore-binding site in human cone opsins. Journal of Biological Chemistry, 2019, 294, 6082-6093.	3.4	11
17	The Retinoid and Non-Retinoid Ligands of the Rod Visual G Protein-Coupled Receptor. International Journal of Molecular Sciences, 2019, 20, 6218.	4.1	16
18	Apo-Opsin Exists in Equilibrium Between a Predominant Inactive and a Rare Highly Active State. Journal of Neuroscience, 2019, 39, 212-223.	3.6	13

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19	Contribution of Cotranslational Folding Defects to Membrane Protein Homeostasis. Journal of the American Chemical Society, 2019, 141, 204-215.	13.7	27
20	Retinal-chitosan Conjugates Effectively Deliver Active Chromophores to Retinal Photoreceptor Cells in Blind Mice and Dogs. Molecular Pharmacology, 2018, 93, 438-452.	2.3	15
21	A novel small molecule chaperone of rod opsin and its potential therapy for retinal degeneration. Nature Communications, 2018, 9, 1976.	12.8	48
22	Protective Effect of a Locked Retinal Chromophore Analog against Light-Induced Retinal Degeneration. Molecular Pharmacology, 2018, 94, 1132-1144.	2.3	15
23	The Retinitis Pigmentosa-Linked Mutations in Transmembrane Helix 5 of Rhodopsin Disrupt Cellular Trafficking Regardless of Oligomerization State. Biochemistry, 2018, 57, 5188-5201.	2.5	19
24	Photocyclic behavior of rhodopsin induced by an atypical isomerization mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2608-E2615.	7.1	28
25	Class A GPCR: Light Sensing G Protein-Coupled Receptor â€" Focus on Rhodopsin Dimer. , 2017, , 79-97.		14
26	Complex binding pathways determine the regeneration of mammalian green cone opsin with a locked retinal analogue. Journal of Biological Chemistry, 2017, 292, 10983-10997.	3.4	11
27	A G Protein-Coupled Receptor Dimerization Interface in Human Cone Opsins. Biochemistry, 2017, 56, 61-72.	2.5	22
28	Animals deficient in C2Orf71, an autosomal recessive retinitis pigmentosa-associated locus, develop severe early-onset retinal degeneration. Human Molecular Genetics, 2015, 24, 2627-2640.	2.9	21
29	Disruption of Rhodopsin Dimerization with Synthetic Peptides Targeting an Interaction Interface. Journal of Biological Chemistry, 2015, 290, 25728-25744.	3.4	71
30	Oligomeric State of Rhodopsin Within Rhodopsinâ€"Transducin Complex Probed with Succinylated Concanavalin A. Methods in Molecular Biology, 2015, 1271, 221-233.	0.9	12
31	Inherent Instability of the Retinitis Pigmentosa P23H Mutant Opsin. Journal of Biological Chemistry, 2014, 289, 9288-9303.	3.4	48
32	Structural approaches to understanding retinal proteins needed for vision. Current Opinion in Cell Biology, 2014, 27, 32-43.	5.4	12
33	Time-Resolved Fluorescence Spectroscopy Measures Clustering and Mobility of a G Protein-Coupled Receptor Opsin in Live Cell Membranes. Journal of the American Chemical Society, 2014, 136, 8342-8349.	13.7	56
34	GPCR: G protein complexesâ€"the fundamental signaling assembly. Amino Acids, 2013, 45, 1303-1314.	2.7	38
35	Asymmetry of the rhodopsin dimer in complex with transducin. FASEB Journal, 2013, 27, 1572-1584.	0.5	58
36	The rhodopsin-transducin complex houses two distinct rhodopsin molecules. Journal of Structural Biology, 2013, 182, 164-172.	2.8	41

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37	3D imaging and quantitative analysis of small solubilized membrane proteins and their complexes by transmission electron microscopy. Microscopy (Oxford, England), 2013, 62, 95-107.	1.5	21
38	Expression of Mammalian G Protein-Coupled Receptors in Caenorhabditis elegans. Methods in Enzymology, 2013, 520, 239-256.	1.0	6
39	Autosomal recessive retinitis pigmentosa E150K opsin mice exhibit photoreceptor disorganization. Journal of Clinical Investigation, 2013, 123, 121-137.	8.2	26
40	Substrate-Induced Changes in the Dynamics of Rhodopsin Kinase (G Protein-Coupled Receptor Kinase 1). Biochemistry, 2012, 51, 3404-3411.	2.5	12
41	Conformational Dynamics of Activation for the Pentameric Complex of Dimeric G Protein-Coupled Receptor and Heterotrimeric G Protein. Structure, 2012, 20, 826-840.	3.3	63
42	Rhodopsinâ€"transducin heteropentamer: Three-dimensional structure and biochemical characterization. Journal of Structural Biology, 2011, 176, 387-394.	2.8	55
43	Role of membrane integrity on G protein-coupled receptors: Rhodopsin stability and function. Progress in Lipid Research, 2011, 50, 267-277.	11.6	59
44	Role of Bulk Water in Hydrolysis of the Rhodopsin Chromophore. Journal of Biological Chemistry, 2011, 286, 18930-18937.	3.4	51
45	Complexes between photoactivated rhodopsin and transducin: progress and questions. Biochemical Journal, 2010, 428, 1-10.	3.7	47
46	Isolation and functional characterization of a stable complex between photoactivated rhodopsin and the G protein, transducin. FASEB Journal, 2009, 23, 371-381.	0.5	27
47	Structural waters define a functional channel mediating activation of the GPCR, rhodopsin. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14367-14372.	7.1	181
48	Modulation of Molecular Interactions and Function by Rhodopsin Palmitylation. Biochemistry, 2009, 48, 4294-4304.	2.5	31
49	Phospholipids Are Needed for the Proper Formation, Stability, and Function of the Photoactivated Rhodopsinâˆ'Transducin Complex. Biochemistry, 2009, 48, 5159-5170.	2.5	36
50	Different Properties of the Native and Reconstituted Heterotrimeric G Protein Transducin. Biochemistry, 2008, 47, 12409-12419.	2.5	22
51	Efficient Coupling of Transducin to Monomeric Rhodopsin in a Phospholipid Bilayer. Journal of Biological Chemistry, 2008, 283, 4387-4394.	3.4	233
52	Structure of the rhodopsin dimer: a working model for G-protein-coupled receptors. Current Opinion in Structural Biology, 2006, 16, 252-259.	5.7	253
53	Functional and Structural Characterization of Rhodopsin Oligomers. Journal of Biological Chemistry, 2006, 281, 11917-11922.	3.4	125
54	Crystal structure of a photoactivated deprotonated intermediate of rhodopsin. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16123-16128.	7.1	431

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55	Autosomal Recessive Retinitis Pigmentosa and E150K Mutation in the Opsin Gene. Journal of Biological Chemistry, 2006, 281, 22289-22298.	3.4	21
56	Functional Characterization of Rhodopsin Monomers and Dimers in Detergents. Journal of Biological Chemistry, 2004, 279, 54663-54675.	3.4	118