Richard H Kramer

List of Publications by Year
in descending order

40 papers	2,272 citations	257450 24 h-index	289244 40 g-index
45 all docs	45 docs citations	45 times ranked	2661 citing authors

#	Article	IF	Citations
1	Photochemical Restoration of Visual Responses in Blind Mice. Neuron, 2012, 75, 271-282.	8.1	216
2	Photochromic Blockers of Voltageâ€Gated Potassium Channels. Angewandte Chemie - International Edition, 2009, 48, 9097-9101.	13.8	203
3	Restoring Visual Function to Blind Mice with a Photoswitch that Exploits Electrophysiological Remodeling of Retinal Ganglion Cells. Neuron, 2014, 81, 800-813.	8.1	165
4	Tuning Photochromic Ion Channel Blockers. ACS Chemical Neuroscience, 2011, 2, 536-543.	3.5	155
5	New photochemical tools for controlling neuronal activity. Current Opinion in Neurobiology, 2009, 19, 544-552.	4.2	149
6	Restoring Vision to the Blind with Chemical Photoswitches. Chemical Reviews, 2018, 118, 10748-10773.	47.7	120
7	Streamlined Synaptic Vesicle Cycle in Cone Photoreceptor Terminals. Neuron, 2004, 41, 755-766.	8.1	114
8	Photochemical tools for remote control of ion channels in excitable cells. Nature Chemical Biology, 2005, 1, 360-365.	8.0	110
9	Imaging an optogenetic pH sensor reveals that protons mediate lateral inhibition in the retina. Nature Neuroscience, 2014, 17, 262-268.	14.8	78
10	Serotonin modulates spike probability in the axon initial segment through HCN channels. Nature Neuroscience, 2016, 19, 826-834.	14.8	73
11	Encoding Light Intensity by the Cone Photoreceptor Synapse. Neuron, 2005, 48, 555-562.	8.1	69
12	A Comprehensive Optogenetic Pharmacology Toolkit for InÂVivo Control of GABA A Receptors and Synaptic Inhibition. Neuron, 2015, 88, 879-891.	8.1	69
13	A Positive Feedback Synapse from Retinal Horizontal Cells to Cone Photoreceptors. PLoS Biology, 2011, 9, e1001057.	5.6	65
14	Restoration of patterned vision with an engineered photoactivatable G protein-coupled receptor. Nature Communications, 2017, 8, 1862.	12.8	65
15	Lateral Inhibition in the Vertebrate Retina: The Case of the Missing Neurotransmitter. PLoS Biology, 2015, 13, e1002322.	5.6	57
16	How Azobenzene Photoswitches Restore Visual Responses to the Blind Retina. Neuron, 2016, 92, 100-113.	8.1	56
17	Modulation of cyclic-nucleotide-gated channels and regulation of vertebrate phototransduction. Journal of Experimental Biology, 2001, 204, 2921-2931.	1.7	52
18	Retinoic Acid Induces Hyperactivity, and Blocking Its Receptor Unmasks Light Responses and Augments Vision in Retinal Degeneration. Neuron, 2019, 102, 574-586.e5.	8.1	48

#	Article	IF	Citations
19	Relocation of an Extrasynaptic GABAA Receptor to Inhibitory Synapses Freezes Excitatory Synaptic Strength and Preserves Memory. Neuron, 2021, 109, 123-134.e4.	8.1	48
20	Photopharmacological control of bipolar cells restores visual function in blind mice. Journal of Clinical Investigation, 2017, 127, 2598-2611.	8.2	47
21	Manipulating midbrain dopamine neurons and reward-related behaviors with light-controllable nicotinic acetylcholine receptors. ELife, 2018, 7, .	6.0	43
22	Restoring visual function to the blind retina with a potent, safe and long-lasting photoswitch. Scientific Reports, 2017, 7, 45487.	3.3	39
23	Design of a Highly Bistable Photoswitchable Tethered Ligand for Rapid and Sustained Manipulation of Neurotransmission. Journal of the American Chemical Society, 2018, 140, 7445-7448.	13.7	30
24	Understanding and improving photoâ€control of ion channels in nociceptors with azobenzene photoâ€switches. British Journal of Pharmacology, 2018, 175, 2296-2311.	5.4	26
25	Local photoreceptor degeneration causes local pathophysiological remodeling of retinal neurons. JCI Insight, 2020, 5, .	5.0	24
26	Mechanism of Inhibition of Cyclic Nucleotideâ€"Gated Channel by Protein Tyrosine Kinase Probed with Genistein. Journal of General Physiology, 2001, 117, 219-234.	1.9	21
27	Optopharmacological tools for restoring visual function in degenerative retinal diseases. Current Opinion in Neurobiology, 2015, 34, 74-78.	4.2	19
28	Parvalbumin interneurons provide spillover to newborn and mature dentate granule cells. ELife, 2020, 9, .	6.0	18
29	Localizing Proton-Mediated Inhibitory Feedback at the Retinal Horizontal Cellâ€"Cone Synapse with Genetically-Encoded pH Probes. Journal of Neuroscience, 2019, 39, 651-662.	3.6	16
30	Degeneration-Dependent Retinal Remodeling: Looking for the Molecular Trigger. Frontiers in Neuroscience, 2020, 14, 618019.	2.8	14
31	Retinoic acid inhibitors mitigate vision loss in a mouse model of retinal degeneration. Science Advances, 2022, 8, eabm4643.	10.3	13
32	Controlled release of photoswitch drugs by degradable polymer microspheres. Journal of Drug Targeting, 2015, 23, 710-715.	4.4	11
33	Light-Switchable Ion Channels and Receptors for Optogenetic Interrogation of Neuronal Signaling. Bioconjugate Chemistry, 2018, 29, 861-869.	3.6	9
34	Cyclodextrinâ€Assisted Delivery of Azobenzene Photoswitches for Uniform and Longâ€Term Restoration of Light Responses in Degenerated Retinas of Blind Mice. Advanced Therapeutics, 2021, 4, 2100127.	3.2	6
35	Controlling Horizontal Cell-Mediated Lateral Inhibition in Transgenic Zebrafish Retina with Chemogenetic Tools. ENeuro, 2020, 7, ENEURO.0022-20.2020.	1.9	6
36	Evaluating methods and protocols of ferritin-based magnetogenetics. IScience, 2021, 24, 103094.	4.1	5

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37	Review and Hypothesis: A Potential Common Link Between Glial Cells, Calcium Changes, Modulation of Synaptic Transmission, Spreading Depression, Migraine, and Epilepsyâ€"H+. Frontiers in Cellular Neuroscience, 2021, 15, 693095.	3.7	4
38	Fluorescent Reporters for Sensing Membrane Potential: Tools for Bioelectricity. Bioelectricity, 2022, 4, 108-116.	1.1	3
39	Interrogating the function of GABAA receptors in the brain with optogenetic pharmacology. Current Opinion in Pharmacology, 2022, 63, 102198.	3.5	2
40	The Bioelectricity Revolution: A Discussion Among the Founding Associate Editors. Bioelectricity, 2019, 1, 8-15.	1.1	1