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	Interrogating the function of GABAA receptors in the brain with optogenetic pharmacology. Current Opinion in Pharmacology, 2022, 63, 102198.	3.5	2
2	Retinoic acid inhibitors mitigate vision loss in a mouse model of retinal degeneration. Science Advances, 2022, 8, eabm4643.	10.3	13
3	Fluorescent Reporters for Sensing Membrane Potential: Tools for Bioelectricity. Bioelectricity, 2022, 4, 108-116.	1.1	3
4	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
5	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
6	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
7	Evaluating methods and protocols of ferritin-based magnetogenetics. IScience, 2021, 24, 103094.	4.1	5
8	Degeneration-Dependent Retinal Remodeling: Looking for the Molecular Trigger. Frontiers in Neuroscience, 2020, 14, 618019.	2.8	14
9	Local photoreceptor degeneration causes local pathophysiological remodeling of retinal neurons. JCI Insight, 2020, 5, .	5.0	24
10	Controlling Horizontal Cell-Mediated Lateral Inhibition in Transgenic Zebrafish Retina with Chemogenetic Tools. ENeuro, 2020, 7, ENEURO.0022-20.2020.	1.9	6
11	Parvalbumin interneurons provide spillover to newborn and mature dentate granule cells. ELife, 2020, 9, .	6.0	18
12	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
13	The Bioelectricity Revolution: A Discussion Among the Founding Associate Editors. Bioelectricity, 2019, 1, 8-15.	1.1	1
14	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
15	Light-Switchable Ion Channels and Receptors for Optogenetic Interrogation of Neuronal Signaling. Bioconjugate Chemistry, 2018, 29, 861-869.	3.6	9
16	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
17	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
18	Restoring Vision to the Blind with Chemical Photoswitches. Chemical Reviews, 2018, 118, 10748-10773.	47.7	120

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19	Manipulating midbrain dopamine neurons and reward-related behaviors with light-controllable nicotinic acetylcholine receptors. ELife, 2018, 7, .	6.0	43
20	Restoring visual function to the blind retina with a potent, safe and long-lasting photoswitch. Scientific Reports, 2017, 7, 45487.	3.3	39
21	Restoration of patterned vision with an engineered photoactivatable G protein-coupled receptor. Nature Communications, 2017, 8, 1862.	12.8	65
22	Photopharmacological control of bipolar cells restores visual function in blind mice. Journal of Clinical Investigation, 2017, 127, 2598-2611.	8.2	47
23	Serotonin modulates spike probability in the axon initial segment through HCN channels. Nature Neuroscience, 2016, 19, 826-834.	14.8	73
24	How Azobenzene Photoswitches Restore Visual Responses to the Blind Retina. Neuron, 2016, 92, 100-113.	8.1	56
25	Optopharmacological tools for restoring visual function in degenerative retinal diseases. Current Opinion in Neurobiology, 2015, 34, 74-78.	4.2	19
26	Controlled release of photoswitch drugs by degradable polymer microspheres. Journal of Drug Targeting, 2015, 23, 710-715.	4.4	11
27	A Comprehensive Optogenetic Pharmacology Toolkit for InÂVivo Control of GABA A Receptors and Synaptic Inhibition. Neuron, 2015, 88, 879-891.	8.1	69
28	Lateral Inhibition in the Vertebrate Retina: The Case of the Missing Neurotransmitter. PLoS Biology, 2015, 13, e1002322.	5.6	57
29	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
30	Imaging an optogenetic pH sensor reveals that protons mediate lateral inhibition in the retina. Nature Neuroscience, 2014, 17, 262-268.	14.8	78
31	Photochemical Restoration of Visual Responses in Blind Mice. Neuron, 2012, 75, 271-282.	8.1	216
32	Tuning Photochromic Ion Channel Blockers. ACS Chemical Neuroscience, 2011, 2, 536-543.	3.5	155
33	A Positive Feedback Synapse from Retinal Horizontal Cells to Cone Photoreceptors. PLoS Biology, 2011, 9, e1001057.	5.6	65
34	New photochemical tools for controlling neuronal activity. Current Opinion in Neurobiology, 2009, 19, 544-552.	4.2	149
35	Photochromic Blockers of Voltageâ€Gated Potassium Channels. Angewandte Chemie - International Edition, 2009, 48, 9097-9101.	13.8	203
36	Photochemical tools for remote control of ion channels in excitable cells. Nature Chemical Biology, 2005, 1, 360-365.	8.0	110

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37	Encoding Light Intensity by the Cone Photoreceptor Synapse. Neuron, 2005, 48, 555-562.	8.1	69
38	Streamlined Synaptic Vesicle Cycle in Cone Photoreceptor Terminals. Neuron, 2004, 41, 755-766.	8.1	114
39	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
40	Modulation of cyclic-nucleotide-gated channels and regulation of vertebrate phototransduction. Journal of Experimental Biology, 2001, 204, 2921-2931.	1.7	52