Monica L Acosta

List of Publications by Year
in descending order

56 papers	1,413 citations	331259 21 h-index	377514 34 g-index
58 all docs	58 docs citations	58 times ranked	1647 citing authors

#	Article	IF	Citations
1	Alzheimer's disease in the human eye. Clinical tests that identify ocular and visual information processing deficit as biomarkers. Alzheimer's and Dementia, 2014, 10, 251-261.	0.4	96
2	The inflammasome pathway is amplified and perpetuated in an autocrine manner through connexin43 hemichannel mediated ATP release. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 385-393.	1.1	87
3	Connexin43 in retinal injury and disease. Progress in Retinal and Eye Research, 2016, 51, 41-68.	7.3	86
4	Using the rd1 mouse to understand functional and anatomical retinal remodelling and treatment implications in retinitis pigmentosa: A review. Experimental Eye Research, 2016, 150, 106-121.	1.2	59
5	Glutamate metabolic pathways and retinal function. Journal of Neurochemistry, 2009, 111, 589-599.	2.1	55
6	Creatine transporter localization in developing and adult retina: importance of creatine to retinal function. American Journal of Physiology - Cell Physiology, 2005, 289, C1015-C1023.	2.1	51
7	Tonabersat Prevents Inflammatory Damage in the Central Nervous System by Blocking Connexin43 Hemichannels. Neurotherapeutics, 2017, 14, 1148-1165.	2.1	49
8	Connexin43 Mimetic Peptide Improves Retinal Function and Reduces Inflammation in a Light-Damaged Albino Rat Model. , 2016, 57, 3961.		47
9	Alzheimerâ€™s Disease-Related Protein Expression in the Retina of Octodon degus. PLoS ONE, 2015, 10, e0135499.	1.1	45
10	Connexin43 hemichannel block protects against the development of diabetic retinopathy signs in a mouse model of the disease. Journal of Molecular Medicine, 2019, 97, 215-229.	1.7	42
11	Connexin Hemichannel Block Using Orally Delivered Tonabersat Improves Outcomes in Animal Models of Retinal Disease. Neurotherapeutics, 2020, 17, 371-387.	2.1	41
12	Octodon degus (Molina 1782): A Model in Comparative Biology and Biomedicine. Cold Spring Harbor Protocols, 2013, 2013, pdb.emo071357.	0.2	39
13	Early markers of retinal degeneration in rd/rd mice. Molecular Vision, 2005, 11, 717-28.	1.1	38
14	Intravitreal pro-inflammatory cytokines in non-obese diabetic mice: Modelling signs of diabetic retinopathy. PLoS ONE, 2018, 13, e0202156.	1.1	35
15	Anatomical Specializations for Nocturnality in a Critically Endangered Parrot, the Kakapo (Strigops) Tj ETQq1 1 0.784314 rgBT /Overlo	1.1	31
16	Targeting connexin hemichannels to control the inflammasome: the correlation between connexin43 and NLRP3 expression in chronic eye disease. Expert Opinion on Therapeutic Targets, 2019, 23, 855-863.	1.5	31
17	Retinal amino acid neurochemistry in health and disease. Australasian journal of optometry, The, 2013, 96, 310-332.	0.6	30
18	Sustained Connexin43 Mimetic Peptide Release From Loaded Nanoparticles Reduces Retinal and Choroidal Photodamage. , 2018, 59, 3682.		30

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19	Functional activation of glutamate ionotropic receptors in the developing mouse retina. Journal of Comparative Neurology, 2007, 500, 923-941.	0.9	29
20	Functional and anatomical remodeling in human retinal detachment. Experimental Eye Research, 2012, 97, 73-89.	1.2	27
21	Light exposure causes functional changes in the retina: increased photoreceptor cation channel permeability, photoreceptor apoptosis, and altered retinal metabolic function. Journal of Neurochemistry, 2007, 103, 714-724.	2.1	26
22	Sildenafil alters retinal function in mouse carriers of Retinitis Pigmentosa. Experimental Eye Research, 2014, 128, 43-56.	1.2	25
23	Connexin43 hemichannels: A potential drug target for the treatment of diabetic retinopathy. Drug Discovery Today, 2019, 24, 1627-1636.	3.2	23
24	Retinal metabolic state of the proline-23-histidine rat model of retinitis pigmentosa. American Journal of Physiology - Cell Physiology, 2010, 298, C764-C774.	2.1	22
25	Immunohistochemical Characterization of Connexin43 Expression in a Mouse Model of Diabetic Retinopathy and in Human Donor Retinas. International Journal of Molecular Sciences, 2017, 18, 2567.	1.8	22
26	Student acceptance of e-learning methods in the laboratory class in Optometry. PLoS ONE, 2018, 13, e0209004.	1.1	22
27	Emergence of cellular markers and functional ionotropic glutamate receptors on tangentially dispersed cells in the developing mouse retina. Journal of Comparative Neurology, 2008, 506, 506-523.	0.9	21
28	Functional activation of glutamate ionotropic receptors in the human peripheral retina. Experimental Eye Research, 2012, 94, 71-84.	1.2	21
29	Mapping cation entry in photoreceptors and inner retinal neurons during early degeneration in the P23H-3 rat retina. Visual Neuroscience, 2013, 30, 65-75.	0.5	20
30	Short- and long-term enzymatic regulation secondary to metabolic insult in the rat retina. Journal of Neurochemistry, 2005, 92, 1350-1362.	2.1	19
31	Connexin therapeutics: blocking connexin hemichannel pores is distinct from blocking pannexin channels or gap junctions. Neural Regeneration Research, 2021, 16, 482.	1.6	19
32	Amino acid immunoreactivity in normal human retina and after brachytherapy. Australasian journal of optometry, The, 2013, 96, 504-507.	0.6	18
33	Gap junction proteins in the light-damaged albino rat. Molecular Vision, 2014, 20, 670-82.	1.1	17
34	Vinpocetine regulates cation channel permeability of inner retinal neurons in the ischaemic retina. Neurochemistry International, 2014, 66, 1-14.	1.9	16
35	Infrared Video Pupillography Coupled with Smart Phone LED for Measurement of Pupillary Light Reflex. Frontiers in Integrative Neuroscience, 2017, 11, 6.	1.0	16
36	Evidence of Synaptic and Neurochemical Remodeling in the Retina of Aging Degus. Frontiers in Neuroscience, 2020, 14, 161.	1.4	16

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37	Macromolecular markers in normal human retina and applications to human retinal disease. Experimental Eye Research, 2016, 150, 135-148.	1.2	14
38	Vinpocetine modulates metabolic activity and function during retinal ischemia. American Journal of Physiology - Cell Physiology, 2015, 308, C737-C749.	2.1	13
39	Retinal Amino Acid Neurochemistry of the Southern Hemisphere Lamprey, Geotria australis. PLoS ONE, 2013, 8, e58406.	1.1	12
40	Retinal Anatomy of the <scp>N</scp>ew <scp>Z</scp>ealand Kiwi: Structural Traits Consistent With Their Nocturnal Behavior. Anatomical Record, 2015, 298, 771-779.	0.8	12
41	Pre-treatment with vinpocetine protects against retinal ischemia. Experimental Eye Research, 2017, 154, 126-138.	1.2	12
42	Differential Action of Connexin Hemichannel and Pannexin Channel Therapeutics for Potential Treatment of Retinal Diseases. International Journal of Molecular Sciences, 2021, 22, 1755.	1.8	12
43	Xentry-Gap19 inhibits Connexin43 hemichannel opening especially during hypoxic injury. Drug Delivery and Translational Research, 2020, 10, 751-765.	3.0	11
44	Creatine Transporter Immunolocalization in Aged Human and Detached Retinas. , 2012, 53, 1936.		10
45	The changing scope of Optometry in New Zealand: historical perspectives, current practice and research advances. Journal of the Royal Society of New Zealand, 2019, 49, 188-204.	1.0	9
46	Vinpocetine protects inner retinal neurons with functional NMDA glutamate receptors against retinal ischemia. Experimental Eye Research, 2018, 167, 1-13.	1.2	7
47	Choroidal thinning and ocular electrophysiology in a case of vascular cognitive impairment after stroke. Australasian journal of optometry, The, 2019, 102, 184-187.	0.6	6
48	Retinal Ganglion Cells Functional Changes in a Mouse Model of Alzheimerâ€™s Disease Are Linked with Neurotransmitter Alterations. Journal of Alzheimer's Disease, 2021, 82, S5-S18.	1.2	6
49	Proinflammatory cytokines trigger biochemical and neurochemical changes in mouse retinal explants exposed to hyperglycemic conditions. Molecular Vision, 2020, 26, 277-290.	1.1	5
50	Glyceraldehyde-3-phosphate dehydrogenase and glutamine synthetase inhibition in the presence of pro-inflammatory cytokines contribute to the metabolic imbalance of diabetic retinopathy. Experimental Eye Research, 2021, 213, 108845.	1.2	5
51	Retinal Development and Ommin Pigment in the Cranchiid Squid Teuthowenia pellucida (Cephalopoda:) Tj ETQq1 1 0.784314 rgBT /Ov	1.1	3
52	Ocular Health of Octodon degus as a Clinical Marker for Age-Related and Age-Independent Neurodegeneration. Frontiers in Integrative Neuroscience, 2021, 15, 665467.	1.0	2
53	Transiently Raised IOP Equivalent To That Experienced During Ocular Surgery Causes Moderate Inflammation But Does Not Affect Retinal Function Or Result In Retinal Ganglion Cell Loss In An Animal Model. Journal of Ophthalmic Science, 2017, 1, 36-50.	0.3	1
54	Reply to â€œLetter to the editor: â€˜Comments on retinal metabolic state in P23H and normal retinasâ€™â€•. American Journal of Physiology - Cell Physiology, 2010, 299, C186-C187.	2.1	0

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55	Mapping cation entry in photoreceptors and inner retinal neurons during early degeneration in the P23H-3 rat retinaâ€"CORRIGENDUM. Visual Neuroscience, 2013, 30, 121-121.	0.5	0
56	Inherited Retinal Degenerations. , 2009, , 1971-1977.		0