

Erica L Fletcher

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137 papers	4,920 citations	42 h-index	63 g-index
149 ext. papers	5,592 ext. citations	4.3 avg, IF	5.61 L-index

#	Paper	IF	Citations
137	Transcriptomic analysis of choroidal neovascularization reveals dysregulation of immune and fibrosis pathways that are attenuated by a novel anti-fibrotic treatment.. <i>Scientific Reports</i> , 2022 , 12, 859	4.9	0
136	Treatments targeting autophagy ameliorate the age-related macular degeneration phenotype in mice lacking APOE (apolipoprotein E).. <i>Autophagy</i> , 2022 , 1-17	10.2	2
135	Transcriptomic Profiling of Human Pluripotent Stem Cell-derived Retinal Pigment Epithelium over Time. <i>Genomics, Proteomics and Bioinformatics</i> , 2021 , 19, 223-242	6.5	4
134	Reticular pseudodrusen: A critical phenotype in age-related macular degeneration. <i>Progress in Retinal and Eye Research</i> , 2021 , 101017	20.5	7
133	The Contribution of Microglia to the Development and Maturation of the Visual System. <i>Frontiers in Cellular Neuroscience</i> , 2021 , 15, 659843	6.1	4
132	Retinal ganglion cell dysfunction in mice following acute intraocular pressure is exacerbated by P2X7 receptor knockout. <i>Scientific Reports</i> , 2021 , 11, 4184	4.9	4
131	Deficits in Monocyte Function in Age Related Macular Degeneration: A Novel Systemic Change Associated With the Disease. <i>Frontiers in Medicine</i> , 2021 , 8, 634177	4.9	3
130	Fractalkine-induced microglial vasoregulation occurs within the retina and is altered early in diabetic retinopathy.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	5
129	Contribution of microglia and monocytes to the development and progression of age related macular degeneration. <i>Ophthalmic and Physiological Optics</i> , 2020 , 40, 128-139	4.1	12
128	Animal and Human Models of Retinal Diseases 2020 , 590-613		
127	Animal Models of Diseases of the Retinal Pigment Epithelium 2020 , 325-347		
126	Fluorescent Labeling and Quantification of Vesicular ATP Release Using Live Cell Imaging. <i>Methods in Molecular Biology</i> , 2020 , 2041, 209-221	1.4	7
125	Potential mechanisms of retinal ganglion cell type-specific vulnerability in glaucoma. <i>Australasian journal of optometry, The</i> , 2020 , 103, 562-571	2.7	7
124	Advances in understanding the mechanisms of retinal degenerations. <i>Australasian journal of optometry, The</i> , 2020 ,	2.7	2
123	Photoreceptor Degeneration in Pro23His Transgenic Rats (Line 3) Involves Autophagic and Necroptotic Mechanisms. <i>Frontiers in Neuroscience</i> , 2020 , 14, 581579	5.1	3
122	Reversibility of Retinal Ganglion Cell Dysfunction From Chronic IOP Elevation 2019 , 60, 3878-3886		9
121	Targeting P2X7 receptors as a means for treating retinal disease. <i>Drug Discovery Today</i> , 2019 , 24, 1598-1605	16.5	13

120	Rod Photoreceptor Activation Alone Defines the Release of Dopamine in the Retina. <i>Current Biology</i> , 2019 , 29, 763-774.e5	6.3	19
119	The renin-angiotensin system and the retinal neurovascular unit: A role in vascular regulation and disease. <i>Experimental Eye Research</i> , 2019 , 187, 107753	3.7	16
118	Subthreshold Nanosecond Laser Intervention in Age-Related Macular Degeneration: The LEAD Randomized Controlled Clinical Trial. <i>Ophthalmology</i> , 2019 , 126, 829-838	7.3	89
117	Prophylactic laser in age-related macular degeneration: the past, the present and the future. <i>Eye</i> , 2018 , 32, 972-980	4.4	5
116	The Role of the Microglial Cx3cr1 Pathway in the Postnatal Maturation of Retinal Photoreceptors. <i>Journal of Neuroscience</i> , 2018 , 38, 4708-4723	6.6	19
115	Ganglion Cell Assessment in Rodents with Retinal Degeneration. <i>Methods in Molecular Biology</i> , 2018 , 1753, 261-273	1.4	1
114	Restorative retinal laser therapy: Present state and future directions. <i>Survey of Ophthalmology</i> , 2018 , 63, 307-328	6.1	24
113	Topographic Rod Recovery Profiles after a Prolonged Dark Adaptation in Subjects with Reticular Pseudodrusen. <i>Ophthalmology Retina</i> , 2018 , 2, 1206-1217	3.8	8
112	The Role of Angiotensin II/AT1 Receptor Signaling in Regulating Retinal Microglial Activation 2018 , 59, 487-498		14
111	Nanosecond Laser Treatment for Age-Related Macular Degeneration Does Not Induce Focal Vision Loss or New Vessel Growth in the Retina 2018 , 59, 731-745		8
110	Failure of Autophagy-Lysosomal Pathways in Rod Photoreceptors Causes the Early Retinal Degeneration Phenotype Observed in Cln6nclf Mice 2018 , 59, 5082-5097		13
109	Loss of Function of P2X7 Receptor Scavenger Activity in Aging Mice: A Novel Model for Investigating the Early Pathogenesis of Age-Related Macular Degeneration. <i>American Journal of Pathology</i> , 2017 , 187, 1670-1685	5.8	22
108	Diamond Devices for High Acuity Prosthetic Vision. <i>Advanced Biology</i> , 2017 , 1, e1600003	3.5	23
107	Design, development and characterization of synthetic Bruch's membranes. <i>Acta Biomaterialia</i> , 2017 , 64, 357-376	10.8	13
106	2016 Glenn A. Fry Award Lecture: Mechanisms and Potential Treatments of Early Age-Related Macular Degeneration. <i>Optometry and Vision Science</i> , 2017 , 94, 939-945	2.1	1
105	Micro-CT and Histological Evaluation of an Neural Interface Implanted Within a Blood Vessel. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 928-934	5	22
104	Characterization of the Circumlimbal Suture Model of Chronic IOP Elevation in Mice and Assessment of Changes in Gene Expression of Stretch Sensitive Channels. <i>Frontiers in Neuroscience</i> , 2017 , 11, 41	5.1	25
103	Innate phagocytosis by peripheral blood monocytes is altered in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2016 , 132, 377-89	14.3	30

102	Correlation of Histologic Features with InVivo Imaging of Reticular Pseudodrusen. <i>Ophthalmology</i> , 2016 , 123, 1320-31	7.3	77
101	Localization and Possible Function of P2X Receptors in Normal and Diseased Retinae. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2016 , 32, 509-517	2.6	12
100	Changes in morphology of retinal ganglion cells with eccentricity in retinal degeneration. <i>Cell and Tissue Research</i> , 2016 , 364, 263-71	4.2	9
99	Using the rd1 mouse to understand functional and anatomical retinal remodelling and treatment implications in retinitis pigmentosa: A review. <i>Experimental Eye Research</i> , 2016 , 150, 106-21	3.7	38
98	Connexin43 Mimetic Peptide Improves Retinal Function and Reduces Inflammation in a Light-Damaged Albino Rat Model 2016 , 57, 3961-73		35
97	Stimulation of a Suprachoroidal Retinal Prosthesis Drives Cortical Responses in a Feline Model of Retinal Degeneration 2016 , 57, 5216-5229		16
96	Retinal Changes in an ATP-Induced Model of Retinal Degeneration. <i>Frontiers in Neuroanatomy</i> , 2016 , 10, 46	3.6	13
95	Changes in ganglion cells during retinal degeneration. <i>Neuroscience</i> , 2016 , 329, 1-11	3.9	22
94	How Azobenzene Photoswitches Restore Visual Responses to the Blind Retina. <i>Neuron</i> , 2016 , 92, 100-113	3.9	43
93	X-ray fluorescence microscopic measurement of elemental distribution in the mouse retina with age. <i>Metallomics</i> , 2016 , 8, 1110-1121	4.5	3
92	Uteroplacental insufficiency leads to hypertension, but not glucose intolerance or impaired skeletal muscle mitochondrial biogenesis, in 12-month-old rats. <i>Physiological Reports</i> , 2015 , 3, e12556	2.6	12
91	In vivo quantification of retinal changes associated with drusen in age-related macular degeneration. <i>Investigative Ophthalmology and Visual Science</i> , 2015 , 56, 1689-700		28
90	Inner retinal change in a novel rd1-FTL mouse model of retinal degeneration. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 293	6.1	10
89	Vesicular expression and release of ATP from dopaminergic neurons of the mouse retina and midbrain. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 389	6.1	37
88	Assessment of retinal function and morphology in aging Ccl2 knockout mice. <i>Investigative Ophthalmology and Visual Science</i> , 2015 , 56, 1238-52		16
87	Nanosecond laser therapy reverses pathologic and molecular changes in age-related macular degeneration without retinal damage. <i>FASEB Journal</i> , 2015 , 29, 696-710	0.9	73
86	Sildenafil alters retinal function in mouse carriers of retinitis pigmentosa. <i>Experimental Eye Research</i> , 2014 , 128, 43-56	3.7	23
85	Purines in the eye: recent evidence for the physiological and pathological role of purines in the RPE, retinal neurons, astrocytes, Müller cells, lens, trabecular meshwork, cornea and lacrimal gland. <i>Experimental Eye Research</i> , 2014 , 127, 270-9	3.7	92

84	Immunolocalization of the P2X4 receptor on neurons and glia in the mammalian retina. <i>Neuroscience</i> , 2014 , 277, 55-71	3.9	22
83	ATP-induced photoreceptor death in a feline model of retinal degeneration. <i>Investigative Ophthalmology and Visual Science</i> , 2014 , 55, 8319-29		27
82	The effect of photoreceptor degeneration on ganglion cell morphology. <i>Journal of Comparative Neurology</i> , 2014 , 522, 1155-70	3.4	27
81	Adenosine triphosphate-induced photoreceptor death and retinal remodeling in rats. <i>Journal of Comparative Neurology</i> , 2014 , 522, 2928-50	3.4	30
80	The vasoneuronal effects of AT1 receptor blockade in a rat model of retinopathy of prematurity 2014 , 55, 3957-70		12
79	Studying age-related macular degeneration using animal models. <i>Optometry and Vision Science</i> , 2014 , 91, 878-86	2.1	56
78	The role of histamine in the retina: studies on the Hdc knockout mouse. <i>PLoS ONE</i> , 2014 , 9, e116025	3.7	7
77	Retinal amino acid neurochemistry in health and disease. <i>Australasian journal of optometry, The</i> , 2013 , 96, 310-32	2.7	26
76	Early remodeling of Müller cells in the rd/rd mouse model of retinal dystrophy. <i>Journal of Comparative Neurology</i> , 2013 , 521, 2439-53	3.4	21
75	Mapping cation entry in photoreceptors and inner retinal neurons during early degeneration in the P23H-3 rat retina. <i>Visual Neuroscience</i> , 2013 , 30, 65-75	1.7	8
74	Mapping kainate activation of inner neurons in the rat retina. <i>Journal of Comparative Neurology</i> , 2013 , 521, 2416-38	3.4	15
73	Functional and neurochemical development in the normal and degenerating mouse retina. <i>Journal of Comparative Neurology</i> , 2013 , 521, 1251-67	3.4	40
72	A rare functional haplotype of the P2RX4 and P2RX7 genes leads to loss of innate phagocytosis and confers increased risk of age-related macular degeneration. <i>FASEB Journal</i> , 2013 , 27, 1479-87	0.9	49
71	A naturally occurring mouse model of achromatopsia: characterization of the mutation in cone transducin and subsequent retinal phenotype 2013 , 54, 3350-9		28
70	Relationship between the magnitude of intraocular pressure during an episode of acute elevation and retinal damage four weeks later in rats. <i>PLoS ONE</i> , 2013 , 8, e70513	3.7	23
69	Retinal dysfunction, photoreceptor protein dysregulation and neuronal remodelling in the R6/1 mouse model of Huntington's disease. <i>Neurobiology of Disease</i> , 2012 , 45, 887-96	7.5	29
68	Alternative pathways in the development of diabetic retinopathy: the renin-angiotensin and kallikrein-kinin systems. <i>Australasian journal of optometry, The</i> , 2012 , 95, 282-9	2.7	10
67	Electronic restoration of vision in those with photoreceptor degenerations. <i>Australasian journal of optometry, The</i> , 2012 , 95, 473-83	2.7	15

66	Amyloid precursor protein is required for normal function of the rod and cone pathways in the mouse retina. <i>PLoS ONE</i> , 2012 , 7, e29892	3.7	25
65	Ccl2/Cx3cr1 knockout mice have inner retinal dysfunction but are not an accelerated model of AMD 2012 , 53, 7833-46		45
64	Retinal prosthesis safety: alterations in microglia morphology due to thermal damage and retinal implant contact 2012 , 53, 7802-12		23
63	Rod and cone pathway signalling is altered in the P2X7 receptor knock out mouse. <i>PLoS ONE</i> , 2012 , 7, e29990	3.7	49
62	The role of the P2X7 receptor in the retina: cell signalling and dysfunction. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 723, 813-9	3.6	7
61	Early inner retinal astrocyte dysfunction during diabetes and development of hypoxia, retinal stress, and neuronal functional loss 2011 , 52, 9316-26		109
60	Characterization of retinal function and glial cell response in a mouse model of oxygen-induced retinopathy. <i>Journal of Comparative Neurology</i> , 2011 , 519, 506-27	3.4	75
59	Animal models of retinal disease. <i>Progress in Molecular Biology and Translational Science</i> , 2011 , 100, 211-86	4.6	63
58	Prorenin and the (pro)renin receptor: do they have a pathogenic role in the retina?. <i>Frontiers in Bioscience - Elite</i> , 2010 , 2, 1054-64	1.6	11
57	A role for omega-3 polyunsaturated fatty acid supplements in diabetic neuropathy 2010 , 51, 1755-64		29
56	RILLKKMPVS influences the vasculature, neurons and glia, and (pro)renin receptor expression in the retina. <i>Hypertension</i> , 2010 , 55, 1454-60	8.5	55
55	Reply to Letter to the editor: Comments on retinal metabolic state in P23H and normal retinas <i>American Journal of Physiology - Cell Physiology</i> , 2010 , 299, C186-C187	5.4	
54	Retinal metabolic state of the proline-23-histidine rat model of retinitis pigmentosa. <i>American Journal of Physiology - Cell Physiology</i> , 2010 , 298, C764-74	5.4	19
53	Viability of the inner retina in a novel mouse model of retinitis pigmentosa. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 553-6	0.9	2
52	The significance of neuronal and glial cell changes in the rat retina during oxygen-induced retinopathy. <i>Documenta Ophthalmologica</i> , 2010 , 120, 67-86	2.2	42
51	The renin-angiotensin system in retinal health and disease: Its influence on neurons, glia and the vasculature. <i>Progress in Retinal and Eye Research</i> , 2010 , 29, 284-311	20.5	106
50	Angiotensin type-1 receptor inhibition is neuroprotective to amacrine cells in a rat model of retinopathy of prematurity. <i>Journal of Comparative Neurology</i> , 2010 , 518, 41-63	3.4	37
49	Mechanisms of photoreceptor death during retinal degeneration. <i>Optometry and Vision Science</i> , 2010 , 87, 269-75	2.1	19

48	The role of purinergic receptors in retinal function and disease. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 664, 385-91	3.6	13
47	Extracellular ATP induces retinal photoreceptor apoptosis through activation of purinoceptors in rodents. <i>Journal of Comparative Neurology</i> , 2009 , 513, 430-40	3.4	63
46	Functional remodeling of glutamate receptors by inner retinal neurons occurs from an early stage of retinal degeneration. <i>Journal of Comparative Neurology</i> , 2009 , 514, 473-91	3.4	60
45	Characterization of histamine projections and their potential cellular targets in the mouse retina. <i>Neuroscience</i> , 2009 , 158, 932-44	3.9	13
44	Subsets of retinal neurons and glia express P2Y1 receptors. <i>Neuroscience</i> , 2009 , 160, 555-66	3.9	22
43	Neuronal and glial cell expression of angiotensin II type 1 (AT1) and type 2 (AT2) receptors in the rat retina. <i>Neuroscience</i> , 2009 , 161, 195-213	3.9	48
42	Seizure-related gene 6 (Sez-6) in amacrine cells of the rodent retina and the consequence of gene deletion. <i>PLoS ONE</i> , 2009 , 4, e6546	3.7	8
41	A review of the role of glial cells in understanding retinal disease. <i>Australasian journal of optometry, The</i> , 2008 , 91, 67-77	2.7	31
40	Localization and possible function of P2Y(4) receptors in the rodent retina. <i>Neuroscience</i> , 2008 , 155, 1263-74	3.7	31
39	AT1 receptor inhibition prevents astrocyte degeneration and restores vascular growth in oxygen-induced retinopathy. <i>Glia</i> , 2008 , 56, 1076-90	9	80
38	Glutamate Transport in Retinal Glial Cells during Diabetes 2008 , 355-371		
37	Neuronal and glial cell changes are determined by retinal vascularization in retinopathy of prematurity. <i>Journal of Comparative Neurology</i> , 2007 , 504, 404-17	3.4	47
36	Neuronal and glial cell abnormality as predictors of progression of diabetic retinopathy. <i>Current Pharmaceutical Design</i> , 2007 , 13, 2699-712	3.3	155
35	Retinal dysfunction in diabetic ren-2 rats is ameliorated by treatment with valsartan but not atenolol. <i>Investigative Ophthalmology and Visual Science</i> , 2007 , 48, 927-34		52
34	Neuronal expression of P2X3 purinoceptors in the rat retina. <i>Neuroscience</i> , 2007 , 146, 403-14	3.9	45
33	P2X2 receptors on ganglion and amacrine cells in cone pathways of the rat retina. <i>Journal of Comparative Neurology</i> , 2006 , 496, 595-609	3.4	39
32	Rod photoreceptor dysfunction in diabetes: activation, deactivation, and dark adaptation. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 3187-94		59
31	Evidence for the involvement of purinergic P2X receptors in outer retinal processing. <i>European Journal of Neuroscience</i> , 2006 , 24, 7-19	3.5	66

30	Dysfunction of retinal neurons and glia during diabetes. <i>Australasian journal of optometry, The</i> , 2005 , 88, 132-45	2.7	85
29	Glutamate uptake in retinal glial cells during diabetes. <i>Diabetologia</i> , 2005 , 48, 351-60	10.3	67
28	Early markers of retinal degeneration in rd/rd mice. <i>Molecular Vision</i> , 2005 , 11, 717-28	2.3	36
27	Angiotensin and bradykinin: targets for the treatment of vascular and neuro-glial pathology in diabetic retinopathy. <i>Current Pharmaceutical Design</i> , 2004 , 10, 3313-30	3.3	43
26	Paired-flash identification of rod and cone dysfunction in the diabetic rat. <i>Investigative Ophthalmology and Visual Science</i> , 2004 , 45, 4592-600		117
25	Retinitis pigmentosa: understanding the clinical presentation, mechanisms and treatment options. <i>Australasian journal of optometry, The</i> , 2004 , 87, 65-80	2.7	69
24	Understanding neurochemical changes during retinal diseases. <i>Clinical and Experimental Ophthalmology</i> , 2004 , 32, 455-6	2.4	
23	Localization and expression of the glutamate transporter, excitatory amino acid transporter 4, within astrocytes of the rat retina. <i>Cell and Tissue Research</i> , 2004 , 315, 305-10	4.2	51
22	Synaptic localization of P2X7 receptors in the rat retina. <i>Journal of Comparative Neurology</i> , 2004 , 472, 13-23	3.4	88
21	Distribution of two splice variants of the glutamate transporter GLT1 in the retinas of humans, monkeys, rabbits, rats, cats, and chickens. <i>Journal of Comparative Neurology</i> , 2002 , 445, 1-12	3.4	58
20	Synaptic distribution of ionotropic glutamate receptors in the inner plexiform layer of the primate retina. <i>Journal of Comparative Neurology</i> , 2002 , 447, 138-51	3.4	74
19	Neuronal and glial localization of GABA transporter immunoreactivity in the myenteric plexus. <i>Cell and Tissue Research</i> , 2002 , 308, 339-46	4.2	38
18	Localization and possible function of the glutamate transporter, EAAC1, in the rat retina. <i>Cell and Tissue Research</i> , 2002 , 310, 31-40	4.2	22
17	Increased Müller cell density during diabetes is ameliorated by aminoguanidine and ramipril. <i>Australasian journal of optometry, The</i> , 2001 , 84, 276-281	2.7	9
16	Retinal anatomy and function of the transthyretin null mouse. <i>Experimental Eye Research</i> , 2001 , 73, 651-9	3.7	19
15	Gene expression and localization of GABA(C) receptors in neurons of the rat gastrointestinal tract. <i>Neuroscience</i> , 2001 , 107, 181-9	3.9	22
14	Synaptic localization of NMDA receptor subunits in the rat retina 2000 , 420, 98-112		140
13	Alterations in neurochemistry during retinal degeneration. <i>Microscopy Research and Technique</i> , 2000 , 50, 89-102	2.8	17

12	Expression, distribution and ultrastructural localization of the synapse-organizing molecule agrin in the mature avian retina. <i>European Journal of Neuroscience</i> , 1999 , 11, 4188-96	3.5	31
11	Indoleamine-accumulating amacrine cells are presynaptic to rod bipolar cells through GABA(C) receptors. <i>Journal of Comparative Neurology</i> , 1999 , 413, 155-67	3.4	39
10	GABAA and GABAC receptors on mammalian rod bipolar cells. <i>Journal of Comparative Neurology</i> , 1998 , 396, 351-65	3.4	106
9	Glycine and GABA receptors in the mammalian retina. <i>Vision Research</i> , 1998 , 38, 1411-30	2.1	222
8	Immunocytochemical localization of the postsynaptic density protein PSD-95 in the mammalian retina. <i>Journal of Neuroscience</i> , 1998 , 18, 10136-49	6.6	188
7	Localisation of amino acid neurotransmitters during postnatal development of the rat retina. <i>Journal of Comparative Neurology</i> , 1997 , 380, 449-71	3.4	85
6	Neurochemical development of the degenerating rat retina. <i>Journal of Comparative Neurology</i> , 1997 , 388, 1-22	3.4	59
5	Neurochemical architecture of the normal and degenerating rat retina. <i>Journal of Comparative Neurology</i> , 1996 , 376, 343-60	3.4	72
4	Neurochemical architecture of the normal and degenerating rat retina 1996 , 376, 343		3
3	The role of pili in the attachment of <i>Pseudomonas aeruginosa</i> to unworn hydrogel contact lenses. <i>Current Eye Research</i> , 1993 , 12, 1067-71	2.9	28
2	Immunocytochemical localization of the amino acid neurotransmitters in the chicken retina. <i>Journal of Comparative Neurology</i> , 1993 , 336, 174-93	3.4	136
1	Non-ulcerative infiltrative keratitis in RGP daily wear: a case report. <i>Australasian journal of optometry</i> , 1990 , 73, 178-183	2.7	4