

Ram Kannan

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.

89 papers	3,244 citations	35 h-index	55 g-index
91 ext. papers	3,738 ext. citations	5.9 avg, IF	5.11 L-index

#	Paper	IF	Citations
89	Mechanisms of RPE senescence and potential role of B crystallin peptide as a senolytic agent in experimental AMD.. <i>Experimental Eye Research</i> , 2022 , 215, 108918	3.7	2
88	Glutathione Metabolism and the Novel Role of Mitochondrial GSH in Retinal Degeneration. <i>Antioxidants</i> , 2021 , 10,	7.1	7
87	Transporter-Mediated Mitochondrial GSH Depletion Leading to Mitochondrial Dysfunction and Rescue with B Crystallin Peptide in RPE Cells. <i>Antioxidants</i> , 2020 , 9,	7.1	4
86	The Emerging Role of Senescence in Ocular Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2020 , 2020, 2583601	6.7	19
85	Mechanisms of protection of retinal pigment epithelial cells from oxidant injury by humanin and other mitochondrial-derived peptides: Implications for age-related macular degeneration. <i>Redox Biology</i> , 2020 , 37, 101663	11.3	8
84	The humanin peptide mediates ELP nanoassembly and protects human retinal pigment epithelial cells from oxidative stress. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020 , 24, 102111	6	8
83	Mechanisms of mitochondrial dysfunction and their impact on age-related macular degeneration. <i>Progress in Retinal and Eye Research</i> , 2020 , 79, 100858	20.5	87
82	A Novel HDL-Mimetic Peptide HM-10/10 Protects RPE and Photoreceptors in Murine Models of Retinal Degeneration. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	6
81	Characterization and Regulation of Carrier Proteins of Mitochondrial Glutathione Uptake in Human Retinal Pigment Epithelium Cells 2019 , 60, 500-516		6
80	The Regulation of NFE2L2 (NRF2) Signalling and Epithelial-to-Mesenchymal Transition in Age-Related Macular Degeneration Pathology. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	25
79	Loss of NRF-2 and PGC-1 α genes leads to retinal pigment epithelium damage resembling dry age-related macular degeneration. <i>Redox Biology</i> , 2019 , 20, 1-12	11.3	73
78	A Role for A3/A1-Crystallin in Type 2 EMT of RPE Cells Occurring in Dry Age-Related Macular Degeneration 2018 , 59, AMD104-AMD113		38
77	Intra-vitreous B crystallin fused to elastin-like polypeptide provides neuroprotection in a mouse model of age-related macular degeneration. <i>Journal of Controlled Release</i> , 2018 , 283, 94-104	11.7	21
76	Protective Mechanisms of the Mitochondrial-Derived Peptide Humanin in Oxidative and Endoplasmic Reticulum Stress in RPE Cells. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 1675230	6.7	37
75	Endoplasmic reticulum-mitochondrial crosstalk: a novel role for the mitochondrial peptide humanin. <i>Neural Regeneration Research</i> , 2017 , 12, 35-38	4.5	20
74	Molecular mechanisms of subretinal fibrosis in age-related macular degeneration. <i>Experimental Eye Research</i> , 2016 , 142, 19-25	3.7	104
73	Alpha crystallins in the retinal pigment epithelium and implications for the pathogenesis and treatment of age-related macular degeneration. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 258-68	4	36

72	B -Crystallin Regulates Subretinal Fibrosis by Modulation of Epithelial-Mesenchymal Transition. <i>American Journal of Pathology</i> , 2016 , 186, 859-73	5.8	32
71	Humanin Protects RPE Cells from Endoplasmic Reticulum Stress-Induced Apoptosis by Upregulation of Mitochondrial Glutathione. <i>PLoS ONE</i> , 2016 , 11, e0165150	3.7	29
70	The Mitochondrial-Derived Peptide Humanin Protects RPE Cells From Oxidative Stress, Senescence, and Mitochondrial Dysfunction 2016 , 57, 1238-53		99
69	Resveratrol inhibits epithelial-mesenchymal transition of retinal pigment epithelium and development of proliferative vitreoretinopathy. <i>Scientific Reports</i> , 2015 , 5, 16386	4.9	45
68	The CRISPR revolution and its impact on cancer research. <i>Swiss Medical Weekly</i> , 2015 , 145, w14230	3.1	10
67	TGF- β secretion from RPE decreases with polarization and becomes apically oriented. <i>Cytokine</i> , 2015 , 71, 394-6	4	23
66	Ceramide inhibits connective tissue growth factor expression by human retinal pigment epithelial cells. <i>Cytokine</i> , 2014 , 68, 137-40	4	5
65	Protection of retina by B crystallin in sodium iodate induced retinal degeneration. <i>PLoS ONE</i> , 2014 , 9, e98275	3.7	41
64	Protein polymer nanoparticles engineered as chaperones protect against apoptosis in human retinal pigment epithelial cells. <i>Journal of Controlled Release</i> , 2014 , 191, 4-14	11.7	36
63	Sodium iodate induced retinal degeneration: new insights from an old model. <i>Neural Regeneration Research</i> , 2014 , 9, 2044-5	4.5	35
62	Intronic sequence elements impede exon ligation and trigger a discard pathway that yields functional telomerase RNA in fission yeast. <i>Genes and Development</i> , 2013 , 27, 627-38	12.6	24
61	Antiapoptotic properties of B-crystallin-derived peptide chaperones and characterization of their uptake transporters in human RPE cells 2013 , 54, 2787-98		44
60	Deficiency of B crystallin augments ER stress-induced apoptosis by enhancing mitochondrial dysfunction. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 1111-22	7.8	56
59	Novel roles for B-crystallins in retinal function and disease. <i>Progress in Retinal and Eye Research</i> , 2012 , 31, 576-604	20.5	91
58	Telomerase RNA biogenesis involves sequential binding by Sm and LSM complexes. <i>Nature</i> , 2012 , 484, 260-4	50.4	66
57	Mechanism of RPE cell death in B-crystallin deficient mice: a novel and critical role for MRP1-mediated GSH efflux. <i>PLoS ONE</i> , 2012 , 7, e33420	3.7	49
56	Glutathione Metabolism and Its Contribution to Antiapoptotic Properties of B-Crystallins in the Retina 2012 , 181-201		2
55	Endoplasmic Reticulum Response to Oxidative Stress in RPE 2012 , 241-258		

54	Transport of hepcidin, an iron-regulatory peptide hormone, into retinal pigment epithelial cells via oligopeptide transporters and its relevance to iron homeostasis. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 405, 244-9	3.4	9
53	VEGF and PEDF secretion in ARPE-19 and hRPE cells 2011 , 52, 9047		7
52	Methionine sulfoxide reductase A: Structure, function and role in ocular pathology. <i>World Journal of Biological Chemistry</i> , 2011 , 2, 184-92	3.8	15
51	Identification of a novel sodium-coupled oligopeptide transporter (SOPT2) in mouse and human retinal pigment epithelial cells 2010 , 51, 413-20		13
50	Neutrophils compromise retinal pigment epithelial barrier integrity. <i>Journal of Biomedicine and Biotechnology</i> , 2010 , 2010, 289360		17
49	alphaB-crystallin regulation of angiogenesis by modulation of VEGF. <i>Blood</i> , 2010 , 115, 3398-406	2.2	120
48	Expression and regulation of enzymes in the ceramide metabolic pathway in human retinal pigment epithelial cells and their relevance to retinal degeneration. <i>Vision Research</i> , 2010 , 50, 643-51	2.1	29
47	B crystallin is apically secreted within exosomes by polarized human retinal pigment epithelium and provides neuroprotection to adjacent cells. <i>PLoS ONE</i> , 2010 , 5, e12578	3.7	153
46	Enhanced retinal degeneration induced by sodium iodate in alphaB-crystallin knockout mice. <i>FASEB Journal</i> , 2010 , 24, 38.2	0.9	
45	Attainment of polarity promotes growth factor secretion by retinal pigment epithelial cells: relevance to age-related macular degeneration. <i>Aging</i> , 2009 , 2, 28-42	5.6	64
44	A protocol for the culture and differentiation of highly polarized human retinal pigment epithelial cells. <i>Nature Protocols</i> , 2009 , 4, 662-73	18.8	206
43	Regulation of thioredoxin by ceramide in retinal pigment epithelial cells. <i>Experimental Eye Research</i> , 2009 , 88, 410-7	3.7	17
42	AlphaB crystallin regulation of ocular angiogenesis by modulation of vascular endothelial growth factor protein expression. <i>FASEB Journal</i> , 2009 , 23, 116.3	0.9	
41	Exacerbation of retinal degeneration in the absence of alpha crystallins in an in vivo model of chemically induced hypoxia. <i>Experimental Eye Research</i> , 2008 , 86, 355-65	3.7	56
40	N-(4-hydroxyphenyl) retinamide augments laser-induced choroidal neovascularization in mice. <i>Investigative Ophthalmology and Visual Science</i> , 2008 , 49, 1210-20		25
39	Vitamin C Transport, Delivery, and Function in the Anterior Segment of the Eye 2008 , 47-57		
38	Multidrug resistance protein 1 (MRP1) in rabbit conjunctival epithelial cells: its effect on drug efflux and its regulation by adenoviral infection. <i>Pharmaceutical Research</i> , 2007 , 24, 1490-500	4.5	19
37	Glutathione and its transporters in ocular surface defense. <i>Ocular Surface</i> , 2007 , 5, 269-79	6.5	11

36	alpha-Crystallin distribution in retinal pigment epithelium and effect of gene knockouts on sensitivity to oxidative stress. <i>Molecular Vision</i> , 2007 , 13, 566-77	2.3	65
35	Characterization of brimonidine transport in retinal pigment epithelium. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 287-94		35
34	Thermodynamic stoichiometry of Na ⁺ -coupled glutathione transport. <i>Canadian Journal of Physiology and Pharmacology</i> , 2006 , 84, 1223-7	2.4	5
33	Thiol regulation of vascular endothelial growth factor-A and its receptors in human retinal pigment epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 346, 1200-6	3.4	31
32	Stimulation of apical and basolateral VEGF-A and VEGF-C secretion by oxidative stress in polarized retinal pigment epithelial cells. <i>Molecular Vision</i> , 2006 , 12, 1649-59	2.3	83
31	Protection from oxidative stress by methionine sulfoxide reductases in RPE cells. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 334, 245-53	3.4	61
30	Hepatocyte growth factor protects RPE cells from apoptosis induced by glutathione depletion. <i>Investigative Ophthalmology and Visual Science</i> , 2005 , 46, 4311-9		33
29	Impairment of conjunctival glutathione secretion and ion transport by oxidative stress in an adenovirus type 5 ocular infection model of pigmented rabbits. <i>Free Radical Biology and Medicine</i> , 2004 , 37, 229-38	7.8	6
28	Ceramide-induced apoptosis: role of catalase and hepatocyte growth factor. <i>Free Radical Biology and Medicine</i> , 2004 , 37, 166-75	7.8	57
27	Specialized protective role of mucosal glutathione in pigmented rabbit conjunctiva. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 4427-38		4
26	Regulation of L-cystine transport and intracellular GSH level by a nitric oxide donor in primary cultured rabbit conjunctival epithelial cell layers. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 1202-10		23
25	Net glutathione secretion across primary cultured rabbit conjunctival epithelial cell layers. <i>Investigative Ophthalmology and Visual Science</i> , 2002 , 43, 1154-61		17
24	Glutathione transport in human retinal pigment epithelial (HRPE) cells: apical localization of sodium-dependent gsh transport. <i>Experimental Eye Research</i> , 2001 , 72, 661-6	3.7	14
23	Vitamin C transport in human lens epithelial cells: evidence for the presence of SVCT2. <i>Experimental Eye Research</i> , 2001 , 73, 159-65	3.7	54
22	GSH transport in human cerebrovascular endothelial cells and human astrocytes: evidence for luminal localization of Na ⁺ -dependent GSH transport in HCEC. <i>Brain Research</i> , 2000 , 852, 374-82	3.7	83
21	GSH transport in immortalized mouse brain endothelial cells: evidence for apical localization of a sodium-dependent GSH transporter. <i>Journal of Neurochemistry</i> , 1999 , 73, 390-9	6	50
20	Protection from oxidant injury by sodium-dependent GSH uptake in retinal M�ller cells. <i>Experimental Eye Research</i> , 1999 , 68, 609-16	3.7	10
19	Corneal transport of circulating glutathione in normal and galactosemic guinea pigs. <i>Cornea</i> , 1999 , 18, 321-7	3.1	11

18	Energy transfer coupling of two-photon absorption and reverse saturable absorption for enhanced optical power limiting. <i>Optics Letters</i> , 1998 , 23, 1742-4	3	75
17	Liver and lens glutathione and cysteine regulation in galactose-fed guinea pigs. <i>Current Eye Research</i> , 1997 , 16, 365-71	2.9	4
16	Low de novo glutathione synthesis from circulating sulfur amino acids in the lens epithelium. <i>Experimental Eye Research</i> , 1997 , 64, 615-26	3.7	10
15	Evidence for the existence of a sodium-dependent glutathione (GSH) transporter. Expression of bovine brain capillary mRNA and size fractions in <i>Xenopus laevis</i> oocytes and dissociation from gamma-glutamyltranspeptidase and facilitative GSH transporters. <i>Journal of Biological Chemistry</i> , 1996 , 271, 9754-8	5.4	59
14	Transport of circulating reduced glutathione at the basolateral side of the anterior lens epithelium: physiologic importance and manipulations. <i>Experimental Eye Research</i> , 1996 , 62, 29-37	3.7	39
13	A New Class of Heterocyclic Compounds for Nonlinear Optics. <i>Chemistry of Materials</i> , 1995 , 7, 816-821	9.6	44
12	Evidence for transcapillary transport of reduced glutathione in vascular perfused guinea-pig brain. <i>Biochemical and Biophysical Research Communications</i> , 1994 , 201, 402-8	3.4	54
11	Blood-to-lens transport of reduced glutathione in an in situ perfused guinea-pig eye. <i>Experimental Eye Research</i> , 1994 , 59, 487-96	3.7	16
10	A simple technique to determine glutathione (GSH) levels and synthesis in ocular tissues as GSH-bimane adduct: application to normal and galactosemic guinea-pigs. <i>Experimental Eye Research</i> , 1993 , 56, 45-50	3.7	26
9	An in situ perfused guinea-pig eye model for blood-ocular transport studies: application to amino acids. <i>Experimental Eye Research</i> , 1992 , 54, 471-7	3.7	10
8	Anorexic contribution to increased linoleate mobilization and oxidation in lymphoma-bearing mice. <i>Lipids</i> , 1992 , 27, 117-23	1.6	
7	Effect of amiodarone on non-deiodinative pathway of thyroid hormone metabolism. <i>European Journal of Endocrinology</i> , 1990 , 122, 249-54	6.5	3
6	The historical development, cellular electrophysiology and pharmacology of amiodarone. <i>Progress in Cardiovascular Diseases</i> , 1989 , 31, 249-80	8.5	95
5	Electrophysiologic effects of flecainide relative to serum and tissue concentrations in rabbits after chronic drug administration. <i>Journal of Cardiovascular Pharmacology</i> , 1989 , 14, 25-30	3.1	7
4	Electrophysiologic effects of desethylamiodarone, an active metabolite of amiodarone: comparison with amiodarone during chronic administration in rabbits. <i>American Heart Journal</i> , 1988 , 115, 351-9	4.9	44
3	Amiodarone efficacy in a young population: relationship to serum amiodarone and desethylamiodarone levels. <i>American Heart Journal</i> , 1987 , 114, 283-7	4.9	30
2	Amiodarone kinetics after oral doses. <i>Clinical Pharmacology and Therapeutics</i> , 1982 , 31, 438-44	6.1	117
1	Evaluation of a gas chromatographic method for the quantitative estimation of hexoses from neutral glycolipids. <i>Journal of Chromatography A</i> , 1974 , 92, 95-103	4.5	20

