James T Handa

List of Publications by Year
in descending order

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96 papers	10,178 citations	109311 35 h-index	54911 84 g-index
98 all docs	98 docs citations	98 times ranked	19778 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	The impact of oxidative stress and inflammation on RPE degeneration in non-neovascular AMD. Progress in Retinal and Eye Research, 2017, 60, 201-218.	15.5	502
3	Complement factor H binds malondialdehyde epitopes and protects from oxidative stress. Nature, 2011, 478, 76-81.	27.8	469
4	A systems biology approach towards understanding and treating non-neovascular age-related macular degeneration. Nature Communications, 2019, 10, 3347.	12.8	192
5	Nrf2 signaling is impaired in the aging RPE given an oxidative insult. Experimental Eye Research, 2014, 119, 111-114.	2.6	176
6	Cigarette smoking, oxidative stress, the anti-oxidant response through Nrf2 signaling, and Age-related Macular Degeneration. Vision Research, 2010, 50, 652-664.	1.4	161
7	Glycationâ€altered proteolysis as a pathobiologic mechanism that links dietary glycemic index, aging, and ageâ€related disease (in nondiabetics). Aging Cell, 2012, 11, 1-13.	6.7	161
8	Melanoma subtypes demonstrate distinct PD-L1 expression profiles. Laboratory Investigation, 2017, 97, 1063-1071.	3.7	156
9	NRF2 plays a protective role in diabetic retinopathy in mice. Diabetologia, 2014, 57, 204-213.	6.3	149
10	Nrf2 has a protective role against neuronal and capillary degeneration in retinal ischemiaâ€“reperfusion injury. Free Radical Biology and Medicine, 2011, 51, 216-224.	2.9	124
11	ATAC-Seq analysis reveals a widespread decrease of chromatin accessibility in age-related macular degeneration. Nature Communications, 2018, 9, 1364.	12.8	124
12	Chronic Cigarette Smoke Causes Oxidative Damage and Apoptosis to Retinal Pigmented Epithelial Cells in Mice. PLoS ONE, 2008, 3, e3119.	2.5	123
13	How does the macula protect itself from oxidative stress?. Molecular Aspects of Medicine, 2012, 33, 418-435.	6.4	121
14	Advanced glycation endproduct-induced aging of the retinal pigment epithelium and choroid: A comprehensive transcriptional response. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11846-11851.	7.1	113
15	Decreased membrane complement regulators in the retinal pigmented epithelium contributes to ageâ€related macular degeneration. Journal of Pathology, 2013, 229, 729-742.	4.5	113
16	Lysosomal-mediated waste clearance in retinal pigment epithelial cells is regulated by CRYBA1/Î²A3/A1-crystallin via V-ATPase-MTORC1 signaling. Autophagy, 2014, 10, 480-496.	9.1	113
17	Hypoxia-inducible factor 1 upregulation of both VEGF and ANGPTL4 is required to promote the angiogenic phenotype in uveal melanoma. Oncotarget, 2016, 7, 7816-7828.	1.8	102
18	The expression of advanced glycation endproduct receptors in rpe cells associated with basal deposits in human maculas. Experimental Eye Research, 2006, 82, 840-848.	2.6	99

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19	Lipids, oxidized lipids, oxidation-specific epitopes, and Age-related Macular Degeneration. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 430-440.	2.4	97
20	Oxidized low density lipoproteins induce a pathologic response by retinal pigmented epithelial cells. Journal of Neurochemistry, 2008, 105, 1187-1197.	3.9	93
21	Oxidative stress induces mitochondrial dysfunction and a protective unfolded protein response in RPE cells. Free Radical Biology and Medicine, 2014, 69, 1-14.	2.9	81
22	Changes in Retinal Pigment Epithelium Related to Cigarette Smoke: Possible Relevance to Smoking as a Risk Factor for Age-Related Macular Degeneration. PLoS ONE, 2009, 4, e5304.	2.5	81
23	Lipids, Lipoproteins, and Age-Related Macular Degeneration. Journal of Lipids, 2011, 2011, 1-14.	4.8	78
24	p62 provides dual cytoprotection against oxidative stress in the retinal pigment epithelium. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1248-1258.	4.1	76
25	Lysosomes: Regulators of autophagy in the retinal pigmented epithelium. Experimental Eye Research, 2016, 144, 46-53.	2.6	76
26	Nrf2 signaling modulates cigarette smoke-induced complement activation in retinal pigmented epithelial cells. Free Radical Biology and Medicine, 2014, 70, 155-166.	2.9	74
27	The impact of lipids, lipid oxidation, and inflammation on AMD, and the potential role of miRNAs on lipid metabolism in the RPE. Experimental Eye Research, 2019, 181, 346-355.	2.6	71
28	Nrf2 is a critical modulator of the innate immune response in a model of uveitis. Free Radical Biology and Medicine, 2009, 47, 300-306.	2.9	67
29	A multi-function force sensing instrument for variable admittance robot control in retinal microsurgery. , 2014, 2014, 1411-1418.		63
30	A Role for Î²A3/A1-Crystallin in Type 2 EMT of RPE Cells Occurring in Dry Age-Related Macular Degeneration. , 2018, 59, AMD104.		62
31	T Cells and Macrophages Responding to Oxidative Damage Cooperate in Pathogenesis of a Mouse Model of Age-Related Macular Degeneration. PLoS ONE, 2014, 9, e88201.	2.5	56
32	Pro-permeability Factors in Diabetic Macular Edema; the Diabetic Macular Edema Treated With Ozurdex Trial. American Journal of Ophthalmology, 2016, 168, 13-23.	3.3	56
33	Advanced Glycation End Products and Receptors in Fuchsâ€™ Dystrophy Corneas Undergoing Descemetâ€™s Stripping with Endothelial Keratoplasty. Ophthalmology, 2007, 114, 1453-1460.	5.2	54
34	A human apoB100 transgenic mouse expresses human apoB100 in the RPE and develops features of early AMD. Experimental Eye Research, 2009, 88, 1115-1123.	2.6	53
35	The Advanced Glycation Endproduct Pentosidine Induces the Expression of PDGF-B in Human Retinal Pigment Epithelial Cells. Experimental Eye Research, 1998, 66, 411-419.	2.6	52
36	Hypoxia Promotes Uveal Melanoma Invasion through Enhanced Notch and MAPK Activation. PLoS ONE, 2014, 9, e105372.	2.5	50

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37	CTGF Is Increased in Basal Deposits and Regulates Matrix Production through the ERK (p42/p44mapk) MAPK and the p38 MAPK Signaling Pathways. , 2009, 50, 1903.		49
38	A review of the literature for intra-arterial chemotherapy used to treat retinoblastoma. Pediatric Radiology, 2016, 46, 1223-1233.	2.0	48
39	Natural History of Age-Related Retinal Lesions That Precede AMD in Mice Fed High or Low Glycemic Index Diets. , 2012, 53, 622.		47
40	Ultrastructural Aging of the RPEâ€“Bruchâ€™s Membraneâ€“Choriocapillaris Complex in the<scp>d</scp>-Galactoseâ€“Treated Mouse. , 2004, 45, 2348.		45
41	Similarity of mRNA Phenotypes of Morphologically Normal Macular and Peripheral Retinal Pigment Epithelial Cells in Older Human Eyes. , 2004, 45, 3291.		45
42	Increased LCN2 (lipocalin 2) in the RPE decreases autophagy and activates inflammasome-ferroptosis processes in a mouse model of dry AMD. Autophagy, 2023, 19, 92-111.	9.1	41
43	Toward Clinically Applicable Steady-Hand Eye Robot for Vitreoretinal Surgery. , 2012, , .		39
44	An easy, rapid method to isolate RPE cell protein from the mouse eye. Experimental Eye Research, 2016, 145, 450-455.	2.6	39
45	Neutrophils homing into the retina trigger pathology in early age-related macular degeneration. Communications Biology, 2019, 2, 348.	4.4	37
46	BNIP3L-mediated mitophagy is required for mitochondrial remodeling during the differentiation of optic nerve oligodendrocytes. Autophagy, 2021, 17, 3140-3159.	9.1	37
47	Pentraxin 3 recruits complement factor H to protect against oxidative stress-induced complement and inflammasome overactivation. Journal of Pathology, 2016, 240, 495-506.	4.5	35
48	Quantifying the Rate of Ellipsoid Zone Loss in Stargardt Disease. American Journal of Ophthalmology, 2018, 186, 1-9.	3.3	34
49	Increased <scp>L</scp>ipocalinâ€2 in the retinal pigment epithelium of Cryba1 c<scp>KO</scp> mice is associated with a chronic inflammatory response. Aging Cell, 2014, 13, 1091-1094.	6.7	33
50	Photic generation of 11-cis-retinal in bovine retinal pigment epithelium. Journal of Biological Chemistry, 2019, 294, 19137-19154.	3.4	33
51	Frequency of Urgent or Emergent Vitreoretinal Surgical Procedures in the United States During the COVID-19 Pandemic. JAMA Ophthalmology, 2021, 139, 456.	2.5	33
52	LXRs regulate features of age-related macular degeneration and may be a potential therapeutic target. JCI Insight, 2020, 5, .	5.0	33
53	The amino acid transporter SLC36A4 regulates the amino acid pool in retinal pigmented epithelial cells and mediates the mechanistic target of rapamycin, complex 1 signaling. Aging Cell, 2017, 16, 349-359.	6.7	32
54	Nrf2 deficiency decreases NADPH from impaired IDH shuttle and pentose phosphate pathway in retinal pigmented epithelial cells to magnify oxidative stressâ€induced mitochondrial dysfunction. Aging Cell, 2021, 20, e13444.	6.7	32

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55	Oxidative stress as a therapeutic target for the prevention and treatment of early age-related macular degeneration. Survey of Ophthalmology, 2021, 66, 423-440.	4.0	30
56	Oxidized Low-Density-Lipoprotein-Induced Injury in Retinal Pigment Epithelium Alters Expression of the Membrane Complement Regulatory Factors CD46 and CD59 through Exosomal and Apoptotic Bleb Release. Advances in Experimental Medicine and Biology, 2014, 801, 259-265.	1.6	30
57	The Demethylating Agent 5-Aza Reduces the Growth, Invasiveness, and Clonogenicity of Uveal and Cutaneous Melanoma. , 2014, 55, 6178.		27
58	Mice That Produce ApoB100 Lipoproteins in the RPE Do Not Develop Drusen yet Are Still a Valuable Experimental System. , 2014, 55, 7285.		27
59	EMT-associated factors promote invasive properties of uveal melanoma cells. Molecular Vision, 2015, 21, 919-29.	1.1	26
60	Biology of p62/sequestosome-1 in Age-Related Macular Degeneration (AMD). Advances in Experimental Medicine and Biology, 2016, 854, 17-22.	1.6	25
61	Oxidative Stress Induces an Interactive Decline in Wnt and Nrf2 Signaling in Degenerating Retinal Pigment Epithelium. Antioxidants and Redox Signaling, 2018, 29, 389-407.	5.4	24
62	Light-Induced Oxidative Stress in Choroidal Endothelial Cells in Mice. , 2005, 46, 1117.		23
63	Knockdown of FABP5 mRNA decreases cellular cholesterol levels and results in decreased apoB100 secretion and triglyceride accumulation in ARPE-19 cells. Laboratory Investigation, 2010, 90, 906-914.	3.7	23
64	Advanced Glycation Endproduct Changes to Bruch's Membrane Promotes Lipoprotein Retention by Lipoprotein Lipase. American Journal of Pathology, 2011, 179, 850-859.	3.8	23
65	Concise Review: Using Stem Cells to Prevent the Progression of Myopiaâ€”A Concept. Stem Cells, 2015, 33, 2104-2113.	3.2	23
66	Retinal Anatomy and Electrode Array Position in Retinitis Pigmentosa Patients After Argus II Implantation: An International Study. American Journal of Ophthalmology, 2018, 193, 87-99.	3.3	21
67	ADVERSE EVENTS OF THE ARGUS II RETINAL PROSTHESIS. Retina, 2020, 40, 303-311.	1.7	18
68	Retinal Microenvironment Imbalance in Dry Age-Related Macular Degeneration: A Mini-Review. Gerontology, 2013, 59, 297-306.	2.8	17
69	An Optimized Protocol for First Strand cDNA Synthesis from Laser Capture Microdissected Tissue. Laboratory Investigation, 2001, 81, 1167-1169.	3.7	15
70	Clarinâ€1 expression in adult mouse and human retina highlights a role of MÃ¼ller glia in Usher syndrome. Journal of Pathology, 2020, 250, 195-204.	4.5	15
71	Combination of apolipoprotein-A-I/apolipoprotein-A-I binding protein and anti-VEGF treatment overcomes anti-VEGF resistance in choroidal neovascularization in mice. Communications Biology, 2020, 3, 386.	4.4	15
72	New Molecular Histopathologic Insights Into the Pathogenesis of Age-related Macular Degeneration. International Ophthalmology Clinics, 2007, 47, 15-50.	0.7	13

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73	Î²A3/A1-crystallin regulates apical polarity and EGFR endocytosis in retinal pigmented epithelial cells. Communications Biology, 2021, 4, 850.	4.4	13
74	Modulating EGFR-MTORC1-autophagy as a potential therapy for persistent fetal vasculature (PFV) disease. Autophagy, 2020, 16, 1130-1142.	9.1	12
75	The selective estrogen receptor modulator raloxifene mitigates the effect of all-trans-retinal toxicity in photoreceptor degeneration. Journal of Biological Chemistry, 2019, 294, 9461-9475.	3.4	11
76	Î²A1-crystallin regulates glucose metabolism and mitochondrial function in mouse retinal astrocytes by modulating PTP1B activity. Communications Biology, 2021, 4, 248.	4.4	10
77	Lipoprotein(A) with An Intact Lysine Binding Site Protects the Retina From an Age-Related Macular Degeneration Phenotype in Mice (An American Ophthalmological Society Thesis). Transactions of the American Ophthalmological Society, 2015, 113, T5.	1.4	9
78	Aqueous proteins help predict the response of patients with neovascular age-related macular degeneration to anti-VEGF therapy. Journal of Clinical Investigation, 2022, 132, .	8.2	9
79	STARGARDT DISEASE. Retina, 2017, 37, 2352-2361.	1.7	7
80	Lower foetal haemoglobin levels at 31- and 34-weeks post menstrual age is associated with the development of retinopathy of prematurity. Eye, 2021, 35, 659-664.	2.1	7
81	Pink1â€mitophagy and Nrf2â€stress response mediated novel mitochondrial retrograde signaling affects RPE structure and function. FASEB Journal, 2020, 34, 1-1.	0.5	7
82	Cell Death in AMD: The Rationale for Targeting Fas. Journal of Clinical Medicine, 2022, 11, 592.	2.4	7
83	Hypotony and the Argus II retinal prosthesis: causes, prevention and management. British Journal of Ophthalmology, 2020, 104, 518-523.	3.9	6
84	Quantitative Ocular Ultrasound Findings in Microbial Keratitis-Associated Endophthalmitis. Ophthalmology Retina, 2020, 4, 560-567.	2.4	6
85	Management of uncomplicated rhegmatogenous retinal detachments: a comparison of practice patterns and clinical outcomes in a real-world setting. Eye, 2023, 37, 684-691.	2.1	6
86	Shortest Distance From Fovea to Subfoveal Hemorrhage Border Is Important in Patients With Neovascular Age-related Macular Degeneration. American Journal of Ophthalmology, 2018, 189, 86-95.	3.3	5
87	Cigarette Smoke Triggers Loss of Corneal Endothelial Cells and Disruption of Descemet's Membrane Proteins in Mice. , 2021, 62, 3.		5
88	Effects of fetal haemoglobin on systemic oxygenation in preterm infants and the development of retinopathy of prematurity PacIFiHER Report No. 2. British Journal of Ophthalmology, 2023, 107, 380-383.	3.9	5
89	Retinal pigment epithelium transcriptome analysis in chronic smoking reveals a suppressed innate immune response and activation of differentiation pathways. Free Radical Biology and Medicine, 2020, 156, 176-189.	2.9	4
90	Vitrectomy versus Vitrectomy with Scleral Buckling in the Treatment of Giant Retinal Tear Related Retinal Detachments. Ophthalmology Retina, 2022, 6, 595-606.	2.4	4

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91	Characterization and identification of measurable endpoints in a mouse model featuring age-related retinal pathologies: a platform to test therapies. Laboratory Investigation, 2022, 102, 1132-1142.	3.7	2
92	Clearance of antitransferrin receptor immunotoxin from the rabbit eye. Current Eye Research, 1996, 15, 1039-1044.	1.5	1
93	Examining the effects of cigarette smoke on mouse lens through a multi OMIC approach. Scientific Reports, 2021, 11, 18801.	3.3	1
94	Patient Use of Dietary Supplements, Home Monitoring, or Genetic Testing for Nonneovascular Age-Related Macular Degeneration. Journal of Vitreoretinal Diseases, 2021, 5, 389-395.	0.7	0
95	Repair of progressive retinal detachment complicating degenerative retinoschisis: surgical management and outcomes in phakic eyes. International Journal of Retina and Vitreous, 2021, 7, 69.	1.9	0
96	Visual acuity after cataract surgery in Macular Telangiectasia Type 2 Stage 3 to 5. International Journal of Retina and Vitreous, 2022, 8, .	1.9	0