

Kakarla V Chalam

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111 papers	2,324 citations	25 h-index	45 g-index
112 ext. papers	2,677 ext. citations	3.2 avg, IF	5.08 L-index

#	Paper	IF	Citations
111	Normative data for macular thickness by high-definition spectral-domain optical coherence tomography (spectralis). <i>American Journal of Ophthalmology</i> , 2009 , 148, 266-71	4.9	233
110	Factors associated with changes in visual acuity and central subfield thickness at 1 year after treatment for diabetic macular edema with ranibizumab. <i>JAMA Ophthalmology</i> , 2012 , 130, 1153-61		195
109	Comparison of retinal thickness in normal eyes using Stratus and Spectralis optical coherence tomography 2010 , 51, 2644-7		111
108	Effect of Initial Management With Aflibercept vs Laser Photocoagulation vs Observation on Vision Loss Among Patients With Diabetic Macular Edema Involving the Center of the Macula and Good Visual Acuity: A Randomized Clinical Trial. <i>JAMA - Journal of the American Medical Association</i> , 2019 , 321, 1880-1894	27.4	94
107	Retinal thickness in people with diabetes and minimal or no diabetic retinopathy: Heidelberg Spectralis optical coherence tomography 2012 , 53, 8154-61		93
106	Resveratrol and Ophthalmic Diseases. <i>Nutrients</i> , 2016 , 8, 200	6.7	88
105	The role of lutein in eye-related disease. <i>Nutrients</i> , 2013 , 5, 1823-39	6.7	79
104	An Updated Review on the Genetics of Primary Open Angle Glaucoma. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 28886-911	6.3	78
103	The application of optical coherence tomography angiography in retinal diseases. <i>Survey of Ophthalmology</i> , 2017 , 62, 838-866	6.1	72
102	Reproducibility of spectral-domain optical coherence tomography retinal thickness measurements and conversion to equivalent time-domain metrics in diabetic macular edema. <i>JAMA Ophthalmology</i> , 2014 , 132, 1113-22	3.9	65
101	Differential effects of TGFbeta and vitreous on the transformation of retinal pigment epithelial cells 2009 , 50, 5965-74		61
100	Photoreceptor avascular privilege is shielded by soluble VEGF receptor-1. <i>ELife</i> , 2013 , 2, e00324	8.9	57
99	Optics of wide-angle panoramic viewing system-assisted vitreous surgery. <i>Survey of Ophthalmology</i> , 2004 , 49, 437-45	6.1	51
98	Temporal macular thinning on spectral-domain optical coherence tomography in proliferative sickle cell retinopathy. <i>JAMA Ophthalmology</i> , 2011 , 129, 247-9		47
97	Tumor necrosis factor-alpha (TNF- α) levels in aqueous humor of primary open angle glaucoma. <i>Clinical Ophthalmology</i> , 2011 , 5, 553-6	2.5	46
96	Deep Capillary Macular Perfusion Indices Obtained with OCT Angiography Correlate with Degree of Nonproliferative Diabetic Retinopathy. <i>European Journal of Ophthalmology</i> , 2017 , 27, 716-729	1.9	42
95	Retinal Thickness Normative Data in Wild-Type Mice Using Customized Miniature SD-OCT. <i>PLoS ONE</i> , 2013 , 8, e67265	3.7	34

94	Comparative in vitro safety analysis of dyes for chromovitrectomy: indocyanine green, brilliant blue green, bromophenol blue, and infracyanine green. <i>Retina</i> , 2011 , 31, 1128-36	3.6	34
93	Evaluation of sirtuin role in neuroprotection of retinal ganglion cells in hypoxia 2012 , 53, 4315-22		32
92	Loss of Angiotensin-Converting Enzyme 2 Exacerbates Diabetic Retinopathy by Promoting Bone Marrow Dysfunction. <i>Stem Cells</i> , 2018 , 36, 1430-1440	5.8	32
91	Sirtuins Expression and Their Role in Retinal Diseases. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 3187594	6.7	30
90	Evaluation of cytotoxic effects of bevacizumab on human corneal cells. <i>Cornea</i> , 2009 , 28, 328-33	3.1	27
89	Aqueous interleukin-6 levels are superior to vascular endothelial growth factor in predicting therapeutic response to bevacizumab in age-related macular degeneration. <i>Journal of Ophthalmology</i> , 2014 , 2014, 502174	2	26
88	Association of the extent of diabetic macular edema as assessed by optical coherence tomography with visual acuity and retinal outcome variables. <i>Retina</i> , 2009 , 29, 300-5	3.6	26
87	Acute bilateral simultaneous angle closure glaucoma after topiramate administration: a case report. <i>Journal of Medical Case Reports</i> , 2008 , 2, 1	1.2	26
86	Human ciliary epithelium as a source of synthesis and secretion of vascular endothelial growth factor in neovascular glaucoma. <i>JAMA Ophthalmology</i> , 2014 , 132, 1350-4	3.9	25
85	Hypoxia initiates sirtuin1-mediated vascular endothelial growth factor activation in choroidal endothelial cells through hypoxia inducible factor-2 <i>Molecular Vision</i> , 2012 , 18, 114-20	2.3	25
84	Retinal thickness measurement obtained with spectral domain optical coherence tomography assisted optical biopsy accurately correlates with ex vivo histology. <i>PLoS ONE</i> , 2014 , 9, e111203	3.7	24
83	Successful management of cataract surgery associated vitreous loss with sutureless small-gauge pars plana vitrectomy. <i>American Journal of Ophthalmology</i> , 2004 , 138, 79-84	4.9	24
82	Lutein protects retinal pigment epithelium from cytotoxic oxidative stress. <i>Cutaneous and Ocular Toxicology</i> , 2014 , 33, 132-7	1.8	23
81	Capillary nonperfusion by novel technology of OCT angiography in a patient with sickle cell disease with normal fluorescein angiogram. <i>European Journal of Ophthalmology</i> , 2016 , 26, e121-3	1.9	23
80	Characterization of Vitreous and Aqueous Proteome in Humans With Proliferative Diabetic Retinopathy and Its Clinical Correlation. <i>Proteomics Insights</i> , 2017 , 8, 1178641816686078	1.5	22
79	Evaluation of differential toxicity of varying doses of bevacizumab on retinal ganglion cells, retinal pigment epithelial cells, and vascular endothelial growth factor-enriched choroidal endothelial cells. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2009 , 25, 507-11	2.6	21
78	In-vivo high resolution imaging of optic nerve head drusen using spectral-domain Optical Coherence Tomography. <i>BMC Medical Imaging</i> , 2010 , 10, 11	2.9	21
77	Pars plana modified Baerveldt implant versus neodymium:YAG cyclophotocoagulation in the management of neovascular glaucoma. <i>Ophthalmic Surgery and Lasers</i> , 2002 , 33, 383-93		21

76	Evaluation of ultraviolet light toxicity on cultured retinal pigment epithelial and retinal ganglion cells. <i>Clinical Ophthalmology</i> , 2010 , 4, 33-9	2.5	20
75	In vitro evaluation of bevacizumab toxicity on a retinal ganglion cell line. <i>Acta Ophthalmologica</i> , 2009 , 87, 618-22	3.7	19
74	Self-stabilizing wide-angle contact lens for vitreous surgery. <i>Retina</i> , 2003 , 23, 667-9	3.6	18
73	Resveratrol inhibits proliferation of hypoxic choroidal vascular endothelial cells. <i>Molecular Vision</i> , 2013 , 19, 2385-92	2.3	17
72	Intravitreal Dexamethasone Effectively Reduces Postoperative Inflammation After Vitreoretinal Surgery. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2003 , 34, 188-192	1.4	17
71	Comparison of central corneal thickness: ultrasound pachymetry versus slit-lamp optical coherence tomography, specular microscopy, and Orbscan. <i>Clinical Ophthalmology</i> , 2015 , 9, 1065-70	2.5	16
70	Sutureless Limited Vitrectomy for Positive Vitreous Pressure in Cataract Surgery. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2005 , 36, 518-522	1.4	16
69	Complications of AlphaCor keratoprosthesis: a clinicopathologic report. <i>Cornea</i> , 2007 , 26, 1258-60	3.1	15
68	Illuminated curved 25-gauge vitrectomy probe for removal of subsclerotomy vitreous in vitreoretinal surgery. <i>Indian Journal of Ophthalmology</i> , 2008 , 56, 331-4	1.6	14
67	Fundus autofluorescence and spectral domain optical coherence tomography in early detection of Plaque maculopathy. <i>European Journal of Ophthalmology</i> , 2010 , 20, 785-8	1.9	13
66	Bevacizumab inhibits proliferation of choroidal endothelial cells by regulation of the cell cycle. <i>Clinical Ophthalmology</i> , 2013 , 7, 321-7	2.5	12
65	Newly designed self-retaining contact lens for vitreous surgery. <i>American Journal of Ophthalmology</i> , 2003 , 135, 544-6	4.9	12
64	Acute, bilateral, concurrent central retinal artery occlusion in sickle cell disease after use of tadalafil (Cialis). <i>JAMA Ophthalmology</i> , 2013 , 131, 1471-3	3.9	11
63	Bilateral isolated concurrent superior ophthalmic vein thrombosis in systemic lupus erythematosus. <i>International Medical Case Reports Journal</i> , 2015 , 8, 181-3	1	10
62	Growth factors/chemokines in diabetic vitreous and aqueous alter the function of bone marrow-derived progenitor (CD34+) cells in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 307, E695-702	6	10
61	Prophylactic circumferential intraoperative laser retinopexy decreases the risk of retinal detachment after macular hole surgery. <i>European Journal of Ophthalmology</i> , 2012 , 22, 799-802	1.9	10
60	Modified protocol for in vivo imaging of wild-type mouse retina with customized miniature spectral domain optical coherence tomography (SD-OCT) device. <i>Biological Procedures Online</i> , 2012 , 14, 9	8.3	9
59	Infrared imaging and spectral-domain optical coherence tomography findings correlate with microperimetry in acute macular neuroretinopathy: a case report. <i>Journal of Medical Case Reports</i> , 2011 , 5, 536	1.2	8

58	Assistant-independent OptiFlex system for contact and noncontact wide-angle viewing in vitreoretinal surgery. <i>JAMA Ophthalmology</i> , 2010 , 128, 490-2		8
57	Evaluation of modified portable digital camera for screening of diabetic retinopathy. <i>Ophthalmic Research</i> , 2009 , 42, 60-2	2.9	8
56	Evaluation of the iPad as a low vision aid for improving reading ability. <i>Clinical Ophthalmology</i> , 2015 , 9, 17-20	2.5	7
55	Normative data for macular volume with high-definition spectral-domain optical coherence tomography (Spectralis). <i>European Journal of Ophthalmology</i> , 2015 , 25, 546-51	1.9	6
54	Spectral domain optical coherence tomography documented rapid resolution of pseudophakic cystoid macular edema with topical difluprednate. <i>Clinical Ophthalmology</i> , 2012 , 6, 155-8	2.5	6
53	Spectral domain optical coherence tomography features of multiple subfoveal retinal pigment epithelial tears after intravitreal bevacizumab. <i>Indian Journal of Ophthalmology</i> , 2011 , 59, 47-8	1.6	6
52	Reusable sutureless silicone ring for housing contact lens during vitreo-retinal surgery. <i>Retina</i> , 2008 , 28, 1550-1	3.6	6
51	Vitreotomy with or without arteriovenous adventitial sheathotomy for macular edema associated with branch retinal vein occlusion. <i>American Journal of Ophthalmology</i> , 2005 , 139, 1146; author reply 1146-7	4.9	6
50	Autoclavable wide-angle contact lens for vitreous surgery. <i>American Journal of Ophthalmology</i> , 2004 , 137, 359-60	4.9	6
49	Intravitreal dexamethasone effectively reduces postoperative inflammation after vitreoretinal surgery. <i>Ophthalmic Surgery, Lasers and Imaging</i> , 2003 , 34, 188-92		6
48	Freezing adversely affects measurement of vascular endothelial growth factor levels in human aqueous samples. <i>Clinical Ophthalmology</i> , 2011 , 5, 81-5	2.5	5
47	Evaluation of choroidal endothelial cell proliferation after exposure to varying doses of proton beam radiation. <i>Retina</i> , 2011 , 31, 169-76	3.6	5
46	Bevacizumab suppression of establishment of micrometastases in experimental ocular melanoma 2010 , 51, 6906; author reply 6906-7		5
45	Concurrent removal of intravitreal lens fragments after phacoemulsification with pars plana vitrectomy prevents development of retinal detachment. <i>International Journal of Ophthalmology</i> , 2015 , 8, 89-93	1.4	5
44	Evaluation of Glutaraldehyde and Povidone Iodine for Sterilization of Wide-Field Contact Vitrectomy Lenses. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2001 , 32, 300-304	1.4	5
43	Osmolarity and spectrophotometric property of brilliant blue green define the degree of toxicity on retinal pigment epithelial cells exposed to surgical endoilluminator. <i>Clinical Ophthalmology</i> , 2016 , 10, 1543-51	2.5	5
42	Sutureless limited vitrectomy for positive vitreous pressure in cataract surgery. <i>Ophthalmic Surgery, Lasers and Imaging</i> , 2005 , 36, 518-22		5
41	TEMPORAL THINNING IN SICKLE CELL RETINOPATHY IS ASSOCIATED WITH DIMINISHED PERFUSION ON OCTA AND DENSE SCOTOMA ON MICROPERIMETERY. <i>Retinal Cases and Brief Reports</i> , 2019 , 13, 308-313	1.1	4

40	T-cell leukemia. <i>Ophthalmology</i> , 2012 , 119, 1713-1714.e1	7.3	4
39	Evaluation of modified retinopathy of prematurity screening guidelines using birth weight as the sole inclusion criterion. <i>Middle East African Journal of Ophthalmology</i> , 2011 , 18, 214-9	0.9	4
38	Evaluation of a Novel, Non Contact, Automated Focal Laser with Integrated (NAVILAS) Fluorescein Angiography for Diabetic Macular Edema. <i>Middle East African Journal of Ophthalmology</i> , 2012 , 19, 158-62	2.9	4
37	Newly designed self-retaining prism contact lens for vitreous surgery. <i>Retina</i> , 2003 , 23, 721-2	3.6	4
36	Evaluation of proton beam radiation sensitivity of proliferating choroidal endothelial and retinal ganglion cells with clonogenic assay. <i>Cutaneous and Ocular Toxicology</i> , 2012 , 31, 14-9	1.8	3
35	Spectral-domain optical coherence tomography features of hypotonous maculopathy after successful retinal detachment surgery. <i>Retinal Cases and Brief Reports</i> , 2010 , 4, 317-9	1.1	3
34	Spectral domain optical coherence tomography guided photodynamic therapy for choroidal hemangioma: a case report. <i>Cases Journal</i> , 2009 , 2, 8778		3
33	Accurate estimation of vascular endothelial growth factor levels in microsamples with a low-cost bead-based assay. <i>Retina</i> , 2010 , 30, 815-9	3.6	3
32	Aplastic anemia induced disc edema and visual loss in pregnancy: a case report. <i>Cases Journal</i> , 2008 , 1, 322		3
31	A newly designed guarded radial optic neurotomy knife. <i>Retina</i> , 2004 , 24, 817-8	3.6	3
30	Effect of distance and duration of illumination on retinal ganglion cells exposed to varying concentrations of brilliant blue green. <i>Journal of Clinical Medicine Research</i> , 2015 , 7, 517-24	2.9	3
29	Mitochondrial aberrations and ophthalmic diseases. <i>Journal of Translational Science</i> , 2016 , 3,	2.2	3
28	Self-Illuminated Contact Lens for Peripheral Vitreous Surgery. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2004 , 35, 76-77	1.4	3
27	Self retaining contact lens system for vitreous surgery. <i>Indian Journal of Ophthalmology</i> , 2004 , 52, 67-71	1.6	3
26	Liquid crystal display microperimetry in eyes with reduced visual acuity from macular pathology. <i>Indian Journal of Ophthalmology</i> , 2004 , 52, 293-6	1.6	3
25	Webcasts for resident education. <i>Ophthalmology</i> , 2012 , 119, 199-200.e1	7.3	2
24	Direct image-creating aspheric lens for indirect ophthalmoscopy. <i>Ophthalmic Research</i> , 2008 , 40, 94-7	2.9	2
23	Inhibition of proliferation of retinal vascular endothelial cells more effectively than choroidal vascular endothelial cell proliferation by bevacizumab. <i>International Journal of Ophthalmology</i> , 2017 , 10, 15-22	1.4	2

22	Bilateral Choroidal Detachment in Waldenström Macroglobulinemia. <i>JAMA Ophthalmology</i> , 2015 , 133, 715-6	3.9	1
21	Miniaturized high-resolution wide-field contact lens for panretinal photocoagulation. <i>Clinical Ophthalmology</i> , 2014 , 8, 703-6	2.5	1
20	Meridional lenticular astigmatism associated with bilateral concurrent uveal metastases in renal cell carcinoma. <i>Clinical Ophthalmology</i> , 2012 , 6, 1839-41	2.5	1
19	New miniaturized contact lens for wide-angle fundus fluorescein angiography: wide-angle fluorescein angiography lens. <i>Retina</i> , 2012 , 32, 640-2	3.6	1
18	Metastatic aspergillus terreus endophthalmitis secondary to bone infection in an immunocompetent host. <i>Annals of Ophthalmology</i> , 2002 , 34, 153-156		1
17	Intraocular Segment of the Central Retinal Vein. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2005 , 36, 174-175	1.4	1
16	Resolution of Macular Scotoma After Radial Optic Neurotomy in Central Retinal Vein Occlusion. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2006 , 37, 72-75	1.4	1
15	Endophthalmitis after dropless (Tri-Moxi injection) cataract surgery. <i>European Journal of Ophthalmology</i> , 2020 , 30, NP29-NP31	1.9	1
14	Conversion of Central Subfield Thickness Measurements of Diabetic Macular Edema Across Cirrus and Spectralis Optical Coherence Tomography Instruments.. <i>Translational Vision Science and Technology</i> , 2021 , 10, 34	3.3	1
13	Inverse Argyll Robertson pupil in Burkitt's lymphoma. <i>Clinical Ophthalmology</i> , 2008 , 2, 207-10	2.5	0
12	Differential sensitivity of choroidal endothelial, retinal ganglion, and retinal pigment epithelial cells in vitro to proton radiation. <i>American Journal of Ophthalmology</i> , 2013 , 156, 444-453.e2	4.9	
11	Spectral Domain OCT Documented Resolution of Pseudophakic Cystoid Macular Edema after Intravitreal Triamcinolone. <i>Ophthalmology and Eye Diseases</i> , 2010 , 2, 1-4		
10	Limitations in assessing nerve growth factor levels in aqueous humor samples from human eyes. <i>BMC Research Notes</i> , 2008 , 1, 22	2.3	
9	Pazopanib Selectively Inhibits Choroidal Vascular Endothelial Cell Proliferation and Promotes Apoptosis. <i>Medical Hypothesis, Discovery, and Innovation in Ophthalmology</i> , 2020 , 9, 7-14	1.4	
8	Successful Management of Complex Rhegmatogenous Retinal Detachment in Congenital Glaucoma.. <i>Cureus</i> , 2021 , 13, e19437	1.2	
7	Small contact surface minified wide-angle contact lens for pediatric vitreous surgery. <i>Journal of Pediatric Ophthalmology and Strabismus</i> , 2004 , 41, 109-11	0.9	
6	Aqueous Interleukin-6 (IL-6) Level Is a Marker for Treatment Resistance to Bevacizumab in Age-Related Macular Degeneration Aqueous Cytokines after Bevacizumab. <i>Open Journal of Ophthalmology</i> , 2014 , 04, 24-30	0.2	
5	Replay to: Normative data for macular volume with high-definition spectral-domain optical coherence tomography (Spectralis). <i>European Journal of Ophthalmology</i> , 2016 , 26, e36	1.9	

- 4 Assistant Independent Self-retaining Truncated Gonioscopy Contact Lens for Minimally Invasive Glaucoma Surgery. *Journal of Glaucoma*, **2019**, 28, e128-e130 2.1
- 3 Baseline retinal thickness measurements with a novel integrated imaging system (concurrent optical coherence tomography and fundus photography) positively correlates with spectralis optical coherence tomography.. *Quantitative Imaging in Medicine and Surgery*, **2022**, 12, 417-424 3.6
- 2 Self-illuminated contact lens for peripheral vitreous surgery. *Ophthalmic Surgery, Lasers and Imaging*, **2004**, 35, 76-7
- 1 Resolution of macular scotoma after radial optic neurotomy in central retinal vein occlusion. *Ophthalmic Surgery, Lasers and Imaging*, **2006**, 37, 72-5