

Konstantin E Kotliar

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,228
citations

471509

17
h-index

414414

32
g-index

77
all docs

77
docs citations

77
times ranked

1420
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of the retinal vessel analyzer in ocular blood flow research. <i>Acta Ophthalmologica</i> , 2010, 88, 717-722.	1.1	178
2	Effect of intravitreal injections and volume changes on intraocular pressure: clinical results and biomechanical model. <i>Acta Ophthalmologica</i> , 2007, 85, 777-781.	0.3	101
3	Exercise-induced alterations of retinal vessel diameters and cardiovascular risk reduction in obesity. <i>Atherosclerosis</i> , 2011, 216, 433-439.	0.8	80
4	Dynamic retinal vessel response to flicker in obesity: A methodological approach. <i>Microvascular Research</i> , 2011, 81, 123-128.	2.5	69
5	Air-pulse corneal applanation signal curve parameters for the characterisation of keratoconus. <i>British Journal of Ophthalmology</i> , 2011, 95, 793-798.	3.9	65
6	Retinal vessel reaction in response to chromatic flickering light. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2004, 242, 377-392.	1.9	59
7	Altered neurovascular coupling as measured by optical imaging: a biomarker for Alzheimer's disease. <i>Scientific Reports</i> , 2017, 7, 12906.	3.3	56
8	Impaired Retinal Vessel Dilation Predicts Mortality in End-Stage Renal Disease. <i>Circulation Research</i> , 2019, 124, 1796-1807.	4.5	44
9	Myeloid-related protein 8/14 complex describes microcirculatory alterations in patients with type 2 diabetes and nephropathy. <i>Cardiovascular Diabetology</i> , 2009, 8, 10.	6.8	35
10	Pulse wave velocity in retinal arteries of healthy volunteers. <i>British Journal of Ophthalmology</i> , 2011, 95, 675-679.	3.9	35
11	Changes in the foveal microstructure after intravitreal bevacizumab application in patients with retinal vascular disease. <i>Clinical Ophthalmology</i> , 2013, 7, 173.	1.8	35
12	Arterial and Retinal Vascular Changes in Hypertensive and Prehypertensive Adolescents. <i>American Journal of Hypertension</i> , 2013, 26, 400-408.	2.0	28
13	Functional retinal changes in Gaucher disease. <i>Documenta Ophthalmologica</i> , 2009, 118, 151-154.	2.2	23
14	Dynamic retinal vessel response to flicker in age-related macular degeneration patients before and after vascular endothelial growth factor inhibitor injection. <i>Acta Ophthalmologica</i> , 2011, 89, 472-479.	1.1	23
15	Retinal Pulse Wave Velocity in Young Male Normotensive and Mildly Hypertensive Subjects. <i>Microcirculation</i> , 2013, 20, 405-415.	1.8	23
16	Effect of Aging on Retinal Artery Blood Column Diameter Measured along the Vessel Axis. , 2008, 49, 2094.		22
17	Surgical Site Infections After Dermatologic Surgery in Immunocompromised Patients: A Single-Center Experience. <i>Dermatologic Surgery</i> , 2018, 44, 1525-1536.	0.8	22
18	Rationale and study design of the prospective, longitudinal, observational cohort study of stratification in end-stage renal disease (ISAR) study. <i>BMC Nephrology</i> , 2016, 17, 161.	1.8	21

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19	Does Increased Blood Pressure Rather Than Aging Influence Retinal Pulse Wave Velocity?. , 2012, 53, 2119.		20
20	Microstructural Alterations of Retinal Arterial Blood Column along the Vessel Axis in Systemic Hypertension. , 2010, 51, 2165.		17
21	Monitoring intraocular pressure changes after intravitreal anibizumab injection using rebound tonometry. Ophthalmic and Physiological Optics, 2014, 34, 438-444.	2.0	16
22	Non-Diabetic Chronic Kidney Disease Influences Retinal Microvasculature. Kidney and Blood Pressure Research, 2009, 32, 428-433.	2.0	15
23	Non-invasive evaluation of neurovascular coupling in the murine retina by dynamic retinal vessel analysis. PLoS ONE, 2018, 13, e0204689.	2.5	13
24	Functional <i>in vivo</i> assessment of retinal artery microirregularities in glaucoma. Acta Ophthalmologica, 2008, 86, 424-433.	1.1	10
25	Postoperative aqueous outflow in the human eye after glaucoma filtration surgery: biofluidmechanical considerations. Biomedizinische Technik, 2009, 54, 14-22.	0.8	10
26	Mediated-reality magnification for macular degeneration rehabilitation. Journal of Modern Optics, 2014, 61, 1400-1408.	1.3	10
27	Retinal Vessel Analysis (RVA) in the Context of Subarachnoid Hemorrhage - A Proof of Concept Study. PLoS ONE, 2016, 11, e0158781.	2.5	10
28	Electroretinographic Assessment of Inner Retinal Signaling in the Isolated and Superfused Murine Retina. Current Eye Research, 2017, 42, 1518-1526.	1.5	10
29	Vasoconstriction and Impairment of Neurovascular Coupling after Subarachnoid Hemorrhage: a Descriptive Analysis of Retinal Changes. Translational Stroke Research, 2018, 9, 284-293.	4.2	10
30	Surgical nuances and placement of subgaleal drains for supratentorial procedures—a prospective analysis of efficacy and outcome in 150 craniotomies. Acta Neurochirurgica, 2020, 162, 729-736.	1.7	10
31	Retinal Endothelial Function, Physical Fitness and Cardiovascular Risk: A Diagnostic Challenge. Frontiers in Physiology, 2019, 10, 831.	2.8	9
32	Modulation of Cav2.3 channels by unconjugated bilirubin (UCB) — Candidate mechanism for UCB-induced neuromodulation and neurotoxicity. Molecular and Cellular Neurosciences, 2019, 96, 35-46.	2.2	9
33	Retinal vessel caliber and caliber responses in true normotensive black and white adults: The African-PREDICT study. Microvascular Research, 2020, 128, 103937.	2.5	9
34	Retinal endothelial function in cardiovascular risk patients: A randomized controlled exercise trial. Scandinavian Journal of Medicine and Science in Sports, 2020, 30, 272-280.	2.9	9
35	Structural Alterations of Retinal Arterioles in Adults Late After Repair of Aortic Isthmic Coarctation. American Journal of Cardiology, 2010, 105, 740-744.	1.6	8
36	The CD63 basophil activation test as a diagnostic tool for assessing autoimmunity in patients with chronic spontaneous urticaria. European Journal of Dermatology, 2019, 29, 614-618.	0.6	8

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37	Identification of cardiovascular high-risk groups from dynamic retinal vessel signals using untargeted machine learning. <i>Cardiovascular Research</i> , 2022, 118, 612-621.	3.8	8
38	Neuroscience20 (BRAIN20, SPINE20, and MENTAL20) Health Initiative: A Global Consortium Addressing the Human and Economic Burden of Brain, Spine, and Mental Disorders Through Neurotech Innovations and Policies. <i>Journal of Alzheimer's Disease</i> , 2021, 83, 1563-1601.	2.6	8
39	Suture-Probe Canaloplasty as an Alternative to Canaloplasty Using the iTrack Microcatheter. <i>Journal of Glaucoma</i> , 2019, 28, 811-817.	1.6	7
40	Unconjugated bilirubin modulates neuronal signaling only in wild-type mice, but not after ablation of the $\text{Ca}_v2.3$ voltage-gated calcium channel. <i>CNS Neuroscience and Therapeutics</i> , 2018, 24, 222-230.	3.9	6
41	Non-penetrating intracanalicular partial trabeculectomy via the ostia of Schlemm's canal. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2011, 249, 565-573.	1.9	5
42	Delayed retinal vein recovery responses indicate both non-adaptation to stress as well as increased risk for stroke: the SABPA study. <i>Cardiovascular Journal of Africa</i> , 2021, 32, 7-18.	0.4	5
43	Mortality prediction of retinal vessel diameters and function in a long-term follow-up of haemodialysis patients. <i>Cardiovascular Research</i> , 2022, 118, 3239-3249.	3.8	5
44	False spectra formation in the differential two-channel scheme of the laser Doppler flowmeter. <i>Biomedizinische Technik</i> , 2018, 63, 439-444.	0.8	4
45	Decreased Vascular Pulsatility in Alzheimer's Disease Dementia Measured by Transcranial Color-Coded Duplex Sonography. <i>Neuropsychiatric Disease and Treatment</i> , 2019, Volume 15, 3487-3499.	2.2	4
46	Non-invasive Assessment of Neurovascular Coupling After Aneurysmal Subarachnoid Hemorrhage: A Prospective Observational Trial Using Retinal Vessel Analysis. <i>Frontiers in Neurology</i> , 2021, 12, 690183.	2.4	4
47	Intraocular Pressure Effects of Pegaptanib (Macugen) Injections in Patients With and Without Glaucoma. <i>American Journal of Ophthalmology</i> , 2008, 145, 185.	3.3	3
48	Retinal Vessel Responses to Flicker Stimulation Are Impaired in Cav2.3-Deficient Mice: An in-vivo Evaluation Using Retinal Vessel Analysis (RVA). <i>Frontiers in Neurology</i> , 2021, 12, 659890.	2.4	3
49	Does hemispheric vascular regulation differ significantly in glaucoma patients with altitudinal visual field asymmetry? A single-center, prospective study. <i>International Ophthalmology</i> , 2021, 41, 3109-3119.	1.4	3
50	Intravitreal injection of triamcinolone acetonide and intraocular pressure: author's reply. <i>Acta Ophthalmologica</i> , 2008, 86, 692-693.	1.1	2
51	Retinal microvasculature and masked hypertension in young adults: the African-PREDICT study. <i>Hypertension Research</i> , 2020, 43, 1231-1238.	2.7	2
52	Changes in endogenous daytime melatonin levels after aneurysmal subarachnoid hemorrhage: Preliminary findings from an observational cohort study. <i>Clinical Neurology and Neurosurgery</i> , 2021, 208, 106870.	1.4	2
53	Cognitive impairment and microvascular function in end-stage renal disease. <i>International Journal of Methods in Psychiatric Research</i> , 2022, 31, e1909.	2.1	2
54	Can Vascular Function Be Assessed by the Interpretation of Retinal Vascular Diameter Changes?. , 2011, 52, 635.		1

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55	Quantification of Choroidal Blood Flow Using the OCT-A System Based on Voxel Scan Processing. , 2020, , .		1
56	Computer simulation of the cornea-scleral shell as applied to pressure-volume relationship in the human eye. , 2014, , .		0
57	O3â€2â€04: The Usefulness of Dynamic Retinal Vessel Reaction to Flickering Light as a Biomarker for Alzheimer's Disease. Alzheimer's and Dementia, 2016, 12, P318.	0.8	0
58	7.5 RETINAL VESSEL RESPONSES TO FLICKERING LIGHT PROVOCATION IN A COHORT OF BLACK AND WHITE TEACHERS: THE SABPA STUDY. Artery Research, 2016, 16, 63.	0.6	0
59	P3-167: Transcranial Doppler Ultrasound: A Promising Non-Invasive Biomarker for the Diagnosis of Alzheimerâ€™s Disease. , 2016, 12, P883-P883.		0
60	[P3â€332]: ALTERED CEREBRAL VESSEL OSCILLATION FREQUENCIES AS A POSSIBLE CAUSE OF IMPAIRED AMYLOID CLEARANCE. Alzheimer's and Dementia, 2017, 13, P1080.	0.8	0
61	[P1â€371]: MULTIPLEâ€STIMULUS HEMODYNAMIC RESPONSE FUNCTION IN PATIENTS WITH PRODROMAL ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2017, 13, P403.	0.8	0
62	P43 MASKED HYPERTENSION AND RETINAL VESSEL STRUCTURE AND FUNCTION IN YOUNG HEALTHY ADULTS: THE AFRICAN-PREDICT STUDY. Artery Research, 2018, 24, 90.	0.6	0
63	The peculiar internal microstructure of retinal arteries as a biomarker for Alzheimerâ€™s disease. Alzheimer's and Dementia, 2020, 16, e043549.	0.8	0
64	Altered cerebral vessel amplitude and oscillation frequencies in Alzheimerâ€™s disease compatible with impaired amyloid clearance. Alzheimer's and Dementia, 2020, 16, e044460.	0.8	0
65	Ocular Rigidity: Clinical Approach. , 2021, , 15-43.		0
66	Dynamische retinale GefÃssreaktion bei HÃmodialysepatienten. Nieren- Und Hochdruckkrankheiten, 2015, 44, 480.	0.0	0