

Einar Stef  nsson

List of Publications by Year in descending order

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Version: 2024-02-01

131
papers

8,274
citations

57631

44
h-index

56606

83
g-index

137
all docs

137
docs citations

137
times ranked

5849
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of ocular blood flow in glaucoma. <i>Progress in Retinal and Eye Research</i> , 2002, 21, 359-393.	7.3	1,458
2	Regulation of retinal blood flow in health and disease. <i>Progress in Retinal and Eye Research</i> , 2008, 27, 284-330.	7.3	493
3	The therapeutic effects of retinal laser treatment and vitrectomy. A theory based on oxygen and vascular physiology. <i>Acta Ophthalmologica</i> , 2001, 79, 435-440.	0.4	249
4	Automatic Retinal Oximetry. , 2006, 47, 5011.		241
5	Ocular Oxygenation and the Treatment of Diabetic Retinopathy. <i>Survey of Ophthalmology</i> , 2006, 51, 364-380.	1.7	239
6	Physiology of vitreous surgery. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2009, 247, 147-163.	1.0	231
7	Screening and prevention of diabetic blindness. <i>Acta Ophthalmologica</i> , 2000, 78, 374-385.	0.4	223
8	Retinal Vessel Oxygen Saturation in Healthy Individuals. , 2012, 53, 5433.		201
9	Retinal oxygen saturation is altered in diabetic retinopathy. <i>British Journal of Ophthalmology</i> , 2012, 96, 560-563.	2.1	193
10	Central corneal thickness, radius of the corneal curvature and intraocular pressure in normal subjects using non-contact techniques: Reykjavik Eye Study. <i>Acta Ophthalmologica</i> , 2002, 80, 11-15.	0.4	158
11	Retinal Oxygenation and Laser Treatment in Patients With Diabetic Retinopathy. <i>American Journal of Ophthalmology</i> , 1992, 113, 36-38.	1.7	142
12	The effects of antiglaucoma and systemic medications on ocular blood flow. <i>Progress in Retinal and Eye Research</i> , 2003, 22, 769-805.	7.3	138
13	Metabolic physiology in age related macular degeneration. <i>Progress in Retinal and Eye Research</i> , 2011, 30, 72-80.	7.3	135
14	Retinal Oximetry in Primary Open-Angle Glaucoma. , 2011, 52, 6409.		120
15	Panretinal Photocoagulation and Retinal Oxygenation in Normal and Diabetic Cats. <i>American Journal of Ophthalmology</i> , 1986, 101, 657-664.	1.7	105
16	"With the rule" astigmatism is not the rule in the elderly. Reykjavik Eye Study: A population based study of refraction and visual acuity in citizens of Reykjavik 50 years and older. <i>Acta Ophthalmologica</i> , 2000, 78, 642-646.	0.4	105
17	Is pseudoexfoliation syndrome inherited? A review of genetic and nongenetic factors and a new observation. <i>Ophthalmic Genetics</i> , 1998, 19, 175-185.	0.5	100
18	Retinal Oximetry Images Must Be Standardized: A Methodological Analysis. , 2012, 53, 1729.		99

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19	Automatic retinal vessel extraction based on directional mathematical morphology and fuzzy classification. <i>Pattern Recognition Letters</i> , 2014, 47, 164-171.	2.6	97
20	Cyclodextrins and topical drug delivery to the anterior and posterior segments of the eye. <i>International Journal of Pharmaceutics</i> , 2017, 531, 413-423.	2.6	97
21	Oxygen Saturation in Central Retinal Vein Occlusion. <i>American Journal of Ophthalmology</i> , 2010, 150, 871-875.	1.7	96
22	Retinal Vasoconstriction After Laser Treatment for Diabetic Macular Edema. <i>American Journal of Ophthalmology</i> , 1993, 115, 64-67.	1.7	95
23	Topical and systemic absorption in delivery of dexamethasone to the anterior and posterior segments of the eye. <i>Acta Ophthalmologica</i> , 2007, 85, 598-602.	0.4	95
24	Cyclodextrin microparticles for drug delivery to the posterior segment of the eye: aqueous dexamethasone eye drops. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 59, 629-635.	1.2	95
25	Oximetry in glaucoma: correlation of metabolic change with structural and functional damage. <i>Acta Ophthalmologica</i> , 2014, 92, 105-110.	0.6	94
26	Topical Dexamethasone-Cyclodextrin Microparticle Eye Drops for Diabetic Macular Edema. , 2011, 52, 7944.		90
27	Retinal oximetry: Metabolic imaging for diseases of the retina and brain. <i>Progress in Retinal and Eye Research</i> , 2019, 70, 1-22.	7.3	89
28	Oxygen Saturation in Human Retinal Vessels Is Higher in Dark Than in Light. , 2009, 50, 2308.		82
29	Diffusion characteristics of vitreous humour and saline solution follow the Stokes Einstein equation. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2009, 247, 1677-1684.	1.0	82
30	Topical dexamethasone β-cyclodextrin nanoparticle eye drops increase visual acuity and decrease macular thickness in diabetic macular oedema. <i>Acta Ophthalmologica</i> , 2015, 93, 610-615.	0.6	82
31	The effect of hydroxypropyl methylcellulose on the release of dexamethasone from aqueous 2-hydroxypropyl- β -cyclodextrin formulations. <i>International Journal of Pharmaceutics</i> , 1994, 104, 181-184.	2.6	81
32	Retinal oxygen metabolism in healthy subjects and glaucoma patients. <i>British Journal of Ophthalmology</i> , 2014, 98, 329-333.	2.1	80
33	Optic nerve oxygenation. <i>Progress in Retinal and Eye Research</i> , 2005, 24, 307-332.	7.3	75
34	PANRETINAL PHOTOCOAGULATION AND RETINAL OXYGENATION. <i>Retina</i> , 1982, 2, 167-175.	1.0	74
35	VITRECTOMY, LENSECTOMY, AND OCULAR OXYGENATION. <i>Retina</i> , 1982, 2, 159-166.	1.0	68
36	In vivo O ₂ consumption in rhesus monkeys in light and dark. <i>Experimental Eye Research</i> , 1983, 37, 251-256.	1.2	68

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37	Cyclodextrin formulation of dorzolamide and its distribution in the eye after topical administration. <i>Journal of Controlled Release</i> , 2005, 102, 255-262.	4.8	68
38	Cyclodextrin solubilization of carbonic anhydrase inhibitor drugs: Formulation of dorzolamide eye drop microparticle suspension. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 76, 208-214.	2.0	65
39	Retinal oxygen metabolism in exudative age-related macular degeneration. <i>Acta Ophthalmologica</i> , 2014, 92, 27-33.	0.6	65
40	Retinal Oximetry Imaging in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015, 49, 79-83.	1.2	65
41	Screening compliance and visual outcome in diabetes. <i>Acta Ophthalmologica</i> , 2005, 83, 687-690.	0.4	64
42	Oxygen saturation in branch retinal vein occlusion. <i>Acta Ophthalmologica</i> , 2012, 90, 466-470.	0.6	63
43	Retinal vessel oxygen saturation and vessel diameter in retinitis pigmentosa. <i>Acta Ophthalmologica</i> , 2014, 92, 449-453.	0.6	62
44	Retinal Oximetry Discovers Novel Biomarkers in Retinal and Brain Diseases. , 2017, 58, BIO227.		61
45	Oxygen and diabetic eye disease. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 1990, 228, 120-123.	1.0	59
46	Age related macular degeneration in monozygotic twins and their spouses in Iceland. <i>Acta Ophthalmologica</i> , 1999, 77, 422-425.	0.4	59
47	Carbonic anhydrase inhibition increases retinal oxygen tension and dilates retinal vessels. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2005, 243, 163-168.	1.0	54
48	Reliability of vessel diameter measurements with a retinal oximeter. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2011, 249, 1311-1317.	1.0	50
49	Drug delivery to retinal photoreceptors. <i>Drug Discovery Today</i> , 2019, 24, 1637-1643.	3.2	48
50	Comparison of topical 0.7% dexamethasone-cyclodextrin with 0.1% dexamethasone sodium phosphate for postcataract inflammation. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2006, 244, 620-626.	1.0	46
51	Optic Disk Neovascularization and Retinal Vessel Diameter in Diabetic Retinopathy. <i>American Journal of Ophthalmology</i> , 1988, 106, 131-134.	1.7	45
52	Glaucoma Filtration Surgery and Retinal Oxygen Saturation. , 2009, 50, 5247.		45
53	The effect of photocoagulation on the oxygenation and ultrastructure of avascular retina. <i>Experimental Eye Research</i> , 1990, 50, 289-296.	1.2	44
54	Pars plana vitrectomy for diabetic macular edema. Internal limiting membrane delamination vs posterior hyaloid removal. A prospective randomized trial. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2011, 249, 997-1008.	1.0	42

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55	Active prevention in diabetic eye disease. <i>Acta Ophthalmologica</i> , 1997, 75, 249-254.	0.4	40
56	Venous oxygen saturation is reduced and variable in central retinal vein occlusion. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2015, 253, 1653-1661.	1.0	39
57	Development of a cyclodextrin-based aqueous cyclosporin A eye drop formulations. <i>International Journal of Pharmaceutics</i> , 2015, 493, 86-95.	2.6	39
58	Topical dexamethasone-cyclodextrin nanoparticle eye drops for non-infectious Uveitic macular oedema and vitritis – a pilot study. <i>Acta Ophthalmologica</i> , 2015, 93, 411-415.	0.6	38
59	The Stokes-Einstein equation and the physiological effects of vitreous surgery. <i>Acta Ophthalmologica</i> , 2006, 84, 718-719.	0.4	37
60	Kinetics of cyclodextrin nanoparticle suspension eye drops in tear fluid. <i>Acta Ophthalmologica</i> , 2014, 92, 550-556.	0.6	37
61	Visual acuity in a population with regular screening for type 2 diabetes mellitus and eye disease. <i>Acta Ophthalmologica</i> , 2006, 85, 40-45.	0.4	36
62	Systematic screening for diabetic eye disease in insulin dependent diabetes. <i>Acta Ophthalmologica</i> , 1994, 72, 72-78.	0.6	35
63	Topical drug delivery to the posterior segment of the eye: Dexamethasone concentrations in various eye tissues after topical administration for up to 15 days to rabbits. <i>Journal of Drug Delivery Science and Technology</i> , 2018, 45, 449-454.	1.4	34
64	Ocular blood flow and oxygen delivery to the retina in primary open-angle glaucoma patients: the addition of dorzolamide to timolol monotherapy. <i>Acta Ophthalmologica</i> , 2010, 88, 142-149.	0.6	33
65	Screening for eye disease in type 2 diabetes mellitus. <i>Acta Ophthalmologica</i> , 1994, 72, 341-346.	0.6	32
66	Retinal oximetry in central retinal artery occlusion. <i>Acta Ophthalmologica</i> , 2013, 91, 189-190.	0.6	32
67	Effect of β -cyclodextrin on solubilization and complexation of irbesartan: Influence of pH and excipients. <i>International Journal of Pharmaceutics</i> , 2014, 474, 80-90.	2.6	29
68	Retinal Vessel Oxygen Saturation during 100% Oxygen Breathing in Healthy Individuals. <i>PLoS ONE</i> , 2015, 10, e0128780.	1.1	28
69	Retinal oxygen metabolism in patients with mild cognitive impairment. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2018, 10, 340-345.	1.2	27
70	Formulations and toxicologic in vivo studies of aqueous cyclosporin A eye drops with cyclodextrin nanoparticles. <i>International Journal of Pharmaceutics</i> , 2017, 529, 486-490.	2.6	26
71	Retinal Oximetry With a Scanning Laser Ophthalmoscope. , 2014, 55, 3120.		25
72	Development of eye drops containing antihypertensive drugs: formulation of aqueous irbesartan/ β CD eye drops. <i>Pharmaceutical Development and Technology</i> , 2015, 20, 626-632.	1.1	25

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73	β-Cyclodextrin Nanoparticle Eye Drops with Dorzolamide: Effect on Intraocular Pressure in Man. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2014, 30, 35-41.	0.6	24
74	Fatty acids from marine lipids: Biological activity, formulation and stability. <i>Journal of Drug Delivery Science and Technology</i> , 2016, 34, 71-75.	1.4	24
75	Early detection of type 2 diabetes mellitus and screening for retinopathy are associated with reduced prevalence and severity of retinopathy. <i>Acta Ophthalmologica</i> , 2016, 94, 232-239.	0.6	23
76	Dorzolamide Increases Retinal Oxygen Tension after Branch Retinal Vein Occlusion. , 2008, 49, 1136.		22
77	Retinal oxygen consumption in vitro the effect of diabetes mellitus, oxygen and glucose. <i>Acta Ophthalmologica</i> , 2009, 68, 715-720.	0.6	20
78	Prevention of diabetic retinopathy. <i>Lancet, The</i> , 2009, 373, 1316-1318.	6.3	19
79	Retinal oxygen saturation is an independent risk factor for the severity of diabetic retinopathy. <i>British Journal of Ophthalmology</i> , 2019, 103, 1167-1172.	2.1	19
80	Aqueous eye drops containing drug/cyclodextrin nanoparticles deliver therapeutic drug concentrations to both anterior and posterior segment. <i>Acta Ophthalmologica</i> , 2021, , .	0.6	19
81	Retinal oximetry measures systemic hypoxia in central nervous system vessels in chronic obstructive pulmonary disease. <i>PLoS ONE</i> , 2017, 12, e0174026.	1.1	19
82	Choroidal Oximetry With a Noninvasive Spectrophotometric Oximeter. , 2013, 54, 3234.		17
83	Retinal Oximetry with Scanning Laser Ophthalmoscope in Infants. <i>PLoS ONE</i> , 2016, 11, e0148077.	1.1	16
84	Effects of retrobulbar bupivacaine on postoperative pain and nausea in retinal detachment surgery. <i>Acta Ophthalmologica</i> , 1993, 71, 544-547.	0.6	15
85	Physicochemical and Stability Evaluation of Topical Niosomal Encapsulating Fosinopril/β-Cyclodextrin Complex for Ocular Delivery. <i>Pharmaceutics</i> , 2022, 14, 1147.	2.0	14
86	Validation of a model for the prediction of retinopathy in persons with type 1 diabetes. <i>British Journal of Ophthalmology</i> , 2021, 105, 1286-1288.	2.1	13
87	Angiotensin Receptor Blockers in cyclodextrin nanoparticle eye drops: Ocular pharmacokinetics and pharmacologic effect on intraocular pressure. <i>Acta Ophthalmologica</i> , 2021, 99, 376-382.	0.6	13
88	Automatic fundus image quality assessment on a continuous scale. <i>Computers in Biology and Medicine</i> , 2021, 129, 104114.	3.9	13
89	Cyclodextrin-based formulation of carbonic anhydrase inhibitors for ocular delivery – A review. <i>International Journal of Pharmaceutics</i> , 2021, 606, 120955.	2.6	12
90	Exudative retinal detachment in familial pulmonary hypertension. <i>Acta Ophthalmologica</i> , 1991, 69, 805-809.	0.6	11

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91	Spectrophotometric Retinal Oximetry in Pigs. , 2013, 54, 2746.		11
92	Topical drug delivery to the posterior segment of the eye: The effect of benzalkonium chloride on topical dexamethasone penetration into the eye in vivo. Journal of Drug Delivery Science and Technology, 2018, 48, 125-127.	1.4	11
93	Dorzolamide Cyclodextrin Nanoparticle Suspension Eye Drops and Trusopt in Rabbit. Journal of Ocular Pharmacology and Therapeutics, 2014, 30, 464-467.	0.6	10
94	Intraocular pressure effects on optic nerve-head oxidative metabolism measured in vivo. Graefe's Archive for Clinical and Experimental Ophthalmology, 1990, 228, 128-133.	1.0	9
95	Ocular hypotony: what is the mechanism of effusion and oedema?. Acta Ophthalmologica, 2007, 85, 584-585.	0.4	9
96	Retinal metabolic and structural alterations in response to aflibercept treatment in neovascular age-related macular degeneration. Acta Ophthalmologica, 2019, 97, 525-531.	0.6	9
97	Can postoperative dexamethasone nanoparticle eye drops replace mitomycin C in trabeculectomy?. Acta Ophthalmologica, 2020, 98, 607-612.	0.6	8
98	Effect of immunosuppressive therapy on oxygen saturation and diameter of retinal vessels in initial onset acute uveitis associated with Vogt-Koyanagi-Harada disease. Acta Ophthalmologica, 2021, 99, 75-82.	0.6	8
99	Bio-Distribution and Pharmacokinetics of Topically Administered β -Cyclodextrin Based Eye Drops in Rabbits. Pharmaceuticals, 2021, 14, 480.	1.7	8
100	Retinal oxygen saturation changes progressively over time in diabetic retinopathy. PLoS ONE, 2021, 16, e0251607.	1.1	8
101	Topical treatment of diabetic macular edema using dexamethasone ophthalmic suspension: A randomized, double-masked, vehicle-controlled study. Acta Ophthalmologica, 2023, 101, 22-33.	0.6	8
102	Fundus imaging in newborn children with wide-field scanning laser ophthalmoscope. Acta Ophthalmologica, 2017, 95, 842-844.	0.6	7
103	Retinal vessel oxygen saturation is affected in uveitis associated with Vogt-Koyanagi-Harada disease. British Journal of Ophthalmology, 2019, 103, bjophthalmol-2018-313719.	2.1	7
104	GABA agonists fail to protect the retina from ischemia-reperfusion injury. Experimental Eye Research, 2009, 88, 361-366.	1.2	6
105	Diabetic macular edema. Saudi Journal of Ophthalmology, 2009, 23, 143-148.	0.3	5
106	Risk of retinal neovascularization in the second eye in patients with proliferative diabetic retinopathy. Acta Ophthalmologica, 2010, 88, 449-452.	0.6	5
107	Clinical Trial: Marine Lipid Suppositories as Laxatives. Marine Drugs, 2012, 10, 2047-2054.	2.2	5
108	Venous oxygen saturation is reduced and variable in central retinal vein occlusion. Graefe's Archive for Clinical and Experimental Ophthalmology, 2015, 253, 1409-1409.	1.0	5

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109	Treatment of nonâ€infectious ophthalmic inflammatory diseases with 1.5% dexamethasone Î³ â€cyclodextrin nanoparticle eye drops. <i>Acta Ophthalmologica</i> , 2019, 97, 824-827.	0.6	5
110	Topical noninvasive retinal drug delivery of a tyrosine kinase inhibitor: 3% cediranib maleate cyclodextrin nanoparticle eye drops in the rabbit eye. <i>Acta Ophthalmologica</i> , 2022, 100, 788-796.	0.6	5
111	Nordic research in ophthalmology. <i>Acta Ophthalmologica</i> , 2003, 81, 556-566.	0.4	4
112	Handheld Retinal Oximetry in Healthy Young Adults. <i>Translational Vision Science and Technology</i> , 2018, 7, 19.	1.1	4
113	Nonâ€invasive structural and metabolic retinal markers of disease activity in nonâ€proliferative diabetic retinopathy. <i>Acta Ophthalmologica</i> , 2021, 99, 790-796.	0.6	4
114	Scientific contributions and citations. <i>Acta Ophthalmologica</i> , 2005, 83, 275-277.	0.4	3
115	Diabetic Retinopathy Screening. <i>Pediatrics</i> , 2006, 117, 586-586.	1.0	3
116	Clinical trial: free fatty acid suppositories compared with enema as bowel preparation for flexible sigmoidoscopy. <i>Frontline Gastroenterology</i> , 2015, 6, 278-283.	0.9	3
117	RETINAL OXIMETRY IS ALTERED IN EYES WITH CHOROIDAL MELANOMA BUT NOT IN EYES WITH CHOROIDAL NEVI. <i>Retina</i> , 2020, 40, 2207-2215.	1.0	3
118	Automation improves repeatability of retinal oximetry measurements. <i>PLoS ONE</i> , 2021, 16, e0260120.	1.1	3
119	Su1100 Marine Lipid Suppositories for Constipation in Children. <i>Gastroenterology</i> , 2013, 144, S-398-S-399.	0.6	2
120	IV.A. Vitreous Physiology. , 2014, , 437-457.		2
121	Why does vitreoretinal traction create macular oedema?. <i>Acta Ophthalmologica</i> , 2018, 96, e533-e534.	0.6	2
122	Angiotensin converting enzyme inhibitors/cyclodextrin inclusion complexes: solution and solid-state characterizations and their thermal stability. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2022, 102, 347-358.	0.9	2
123	Is metabolic imaging a new tool to monitor progression in retinal degenerations and atrophy?. <i>Acta Ophthalmologica</i> , 2015, 93, e437-8.	0.6	1
124	Retinal oximetry with a prototype handheld oximeter during hyperoxia. <i>Acta Ophthalmologica</i> , 2021, 99, e1390-e1395.	0.6	1
125	Changes in ocular blood flow and retinal oxygen metabolism during immunosuppressive therapy for initialâ€onset acute uveitis associated with <sc>Vogtâ€Koyanagiâ€Harada</sc> disease. <i>Acta Ophthalmologica</i> , 2022, , .	0.6	1
126	P2-128: RETINAL OXYGEN METABOLISM IN ALZHEIMER'S DISEASE. , 2014, 10, P518-P518.		0

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127	The most successful year in the history of Acta Ophthalmologica. Acta Ophthalmologica, 2021, 99, 117-117.	0.6	0
128	Successful years of collaboration between Acta Ophthalmologica and the European Association for Vision and Eye Research. Acta Ophthalmologica, 2021, 99, 239-239.	0.6	0
129	The state of your journal Acta Ophthalmologica 2020. Acta Ophthalmologica, 2021, 99, 467-469.	0.6	0
130	Effect of Soluplus [®] on β -cyclodextrin solubilization of irbesartan and candesartan and their nanoaggregates formation. Pharmaceutical Development and Technology, 2022, 27, 9-18.	1.1	0
131	Acta Ophthalmologica 2021. Acta Ophthalmologica, 2022, 100, 483-485.	0.6	0