

Nils A Loewen

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

2,687
citations

218677

26
h-index

265206

42
g-index

156
all docs

156
docs citations

156
times ranked

1529
citing authors

#	ARTICLE	IF	CITATIONS
1	Review and meta-analysis of ab-interno trabeculectomy outcomes. British Journal of Ophthalmology, 2016, 100, 594-600.	3.9	168
2	Unintegrated Lentivirus DNA Persistence and Accessibility to Expression in Nondividing Cells: Analysis with Class I Integrase Mutants. Journal of Virology, 2004, 78, 2906-2920.	3.4	117
3	Clinical Results of Ab Interno Trabeculectomy Using the Trabectome for Open-Angle Glaucoma: The Mayo Clinic Series in Rochester, Minnesota. American Journal of Ophthalmology, 2014, 157, 1325-1326.	3.3	92
4	Outcomes of ab interno trabeculectomy with the trabectome by degree of angle opening. British Journal of Ophthalmology, 2015, 99, 914-919.	3.9	85
5	Genetic Modification of Human Trabecular Meshwork with Lentiviral Vectors. Human Gene Therapy, 2001, 12, 2109-2119.	2.7	79
6	Outcomes of ab interno trabeculectomy with the trabectome after failed trabeculectomy. British Journal of Ophthalmology, 2015, 99, 258-262.	3.9	71
7	Glaucoma and Aging. Current Aging Science, 2011, 4, 110-117.	1.2	67
8	Coarsened Exact Matching of Phaco-Trabectome to Trabectome in Phakic Patients: Lack of Additional Pressure Reduction from Phacoemulsification. PLoS ONE, 2016, 11, e0149384.	2.5	64
9	Techniques and outcomes of minimally invasive trabecular ablation and bypass surgery. British Journal of Ophthalmology, 2014, 98, 579-585.	3.9	62
10	Impact of a Glaucoma Severity Index on Results of Trabectome Surgery: Larger Pressure Reduction in More Severe Glaucoma. PLoS ONE, 2016, 11, e0151926.	2.5	59
11	Predicting Development of Glaucomatous Visual Field Conversion Using Baseline Fourier-Domain Optical Coherence Tomography. American Journal of Ophthalmology, 2016, 163, 29-37.	3.3	57
12	Increased 24-Hour Variation of Human Intraocular Pressure with Short Axial Length. , 2010, 51, 933.		52
13	Durable, Safe, Multi-gene Lentiviral Vector Expression in Feline Trabecular Meshwork. Molecular Therapy, 2008, 16, 97-106.	8.2	50
14	Prolonged Transgene Expression with Lentiviral Vectors in the Aqueous Humor Outflow Pathway of Nonhuman Primates. Human Gene Therapy, 2009, 20, 191-200.	2.7	49
15	Clinical results of ab interno trabeculectomy using the Trabectome in patients with pigmentary glaucoma compared to primary open angle glaucoma. Clinical and Experimental Ophthalmology, 2016, 44, 563-569.	2.6	49
16	Long-Term, Targeted Genetic Modification of the Aqueous Humor Outflow Tract Coupled with Noninvasive Imaging of Gene Expression In Vivo. , 2004, 45, 3091.		45
17	Regionally Discrete Aqueous Humor Outflow Quantification Using Fluorescein Canalograms. PLoS ONE, 2016, 11, e0151754.	2.5	44
18	Quantification of Focal Outflow Enhancement Using Differential Canalograms. , 2016, 57, 2831.		43

#	ARTICLE	IF	CITATIONS
19	Repeatability of selective laser trabeculoplasty for open-angle glaucoma. <i>BMC Ophthalmology</i> , 2016, 16, 128.	1.4	43
20	Perfusion of His-Tagged Eukaryotic Myocilin Increases Outflow Resistance in Human Anterior Segments in the Presence of Aqueous Humor. , 2006, 47, 213.		42
21	Differential Canalograms Detect Outflow Changes from Trabecular Micro-Bypass Stents and Ab Interno Trabeculectomy. <i>Scientific Reports</i> , 2016, 6, 34705.	3.3	42
22	Glaucoma Surgery Calculator: Limited Additive Effect of Phacoemulsification on Intraocular Pressure in Ab Interno Trabeculectomy. <i>PLoS ONE</i> , 2016, 11, e0153585.	2.5	41
23	Structure-Function Changes of the Porcine Distal Outflow Tract in Response to Nitric Oxide. , 2018, 59, 4886.		41
24	Comparison of wild-type and class I integrase mutant-FIV vectors in retina demonstrates sustained expression of integrated transgenes in retinal pigment epithelium. <i>Journal of Gene Medicine</i> , 2003, 5, 1009-1017.	2.8	40
25	FIV Vectors. , 2003, 229, 251-271.		39
26	Five-year clinical outcomes of combined phacoemulsification and trabectome surgery at a single glaucoma center. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2019, 257, 357-362.	1.9	39
27	Rapid learning curve assessment in an ex vivo training system for microincisional glaucoma surgery. <i>Scientific Reports</i> , 2017, 7, 1605.	3.3	38
28	Steroid-induced glaucoma treated with trabecular ablation in a matched comparison with primary open-angle glaucoma. <i>Clinical and Experimental Ophthalmology</i> , 2016, 44, 783-788.	2.6	36
29	Combining measurements from three anatomical areas for glaucoma diagnosis using Fourier-domain optical coherence tomography. <i>British Journal of Ophthalmology</i> , 2015, 99, 1224-1229.	3.9	35
30	Preservation of aqueous outflow facility after second-generation FIV vector-mediated expression of marker genes in anterior segments of human eyes. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 3686-90.	3.3	33
31	A Porcine Anterior Segment Perfusion and Transduction Model With Direct Visualization of the Trabecular Meshwork. , 2016, 57, 1338.		31
32	High-Resolution, Three-Dimensional Reconstruction of the Outflow Tract Demonstrates Segmental Differences in Cleared Eyes. , 2018, 59, 2371.		29
33	Genomic response of hypoxic Müller cells involves the very low density lipoprotein receptor as part of an angiogenic network. <i>Experimental Eye Research</i> , 2009, 88, 928-937.	2.6	28
34	SALT Trial: Steroids after Laser Trabeculoplasty. <i>Ophthalmology</i> , 2019, 126, 1511-1516.	5.2	28
35	Bilateral Irreversible Severe Vision Loss From Cosmetic Iris Implants. <i>American Journal of Ophthalmology</i> , 2011, 151, 872-875.e1.	3.3	27
36	Outflow enhancement by three different ab interno trabeculectomy procedures in a porcine anterior segment model. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2018, 256, 1305-1312.	1.9	27

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37	Combined analysis of trabectome and phaco-trabectome outcomes by glaucoma severity. F1000Research, 2016, 5, 762.	1.6	27
38	Two-year data comparison of ab interno trabeculectomy and trabecular bypass stenting using exact matching. Journal of Cataract and Refractive Surgery, 2019, 45, 608-614.	1.5	26
39	Freeze-thaw decellularization of the trabecular meshwork in an <i>ex vivo</i> eye perfusion model. PeerJ, 2017, 5, e3629.	2.0	26
40	Advanced Imaging for Glaucoma Study: Design, Baseline Characteristics, and Inter-site Comparison. American Journal of Ophthalmology, 2015, 159, 393-403.e2.	3.3	24
41	A porcine <i>ex vivo</i> model of pigmentary glaucoma. Scientific Reports, 2018, 8, 5468.	3.3	24
42	Training strategies and outcomes of ab interno trabeculectomy with the trabectome. F1000Research, 2017, 6, 67.	1.6	24
43	Characterization of monoclonal antibodies against the glaucoma-associated protein myocilin. Experimental Eye Research, 2008, 87, 376-384.	2.6	23
44	In Vitro and In Vivo Comparison of Two Suprachoroidal Shunts. , 2013, 54, 5416.		23
45	Gene transfer to the outflow tract. Experimental Eye Research, 2017, 158, 73-84.	2.6	23
46	RKI-1447, a Rho kinase inhibitor, causes ocular hypotension, actin stress fiber disruption, and increased phagocytosis. Graefe's Archive for Clinical and Experimental Ophthalmology, 2019, 257, 101-109.	1.9	23
47	Stratification of phaco-trabectome surgery results using a glaucoma severity index in a retrospective analysis. BMC Ophthalmology, 2017, 17, 30.	1.4	22
48	Angle stability and outflow in dual blade ab interno trabeculectomy with active versus passive chamber management. PLoS ONE, 2017, 12, e0177238.	2.5	22
49	Intraocular pressure elevation precedes a phagocytosis decline in a model of pigmentary glaucoma. F1000Research, 2018, 7, 174.	1.6	21
50	Lentiviral Vectors. , 2005, 99, 169-191.		20
51	Feline Immunodeficiency Virus-Based Lentiviral Vectors. Cold Spring Harbor Protocols, 2012, 2012, pdb.ip067579-pdb.ip067579.	0.3	20
52	Time Spent in Lateral Sleep Position and Asymmetry in Glaucoma. , 2015, 56, 3869.		20
53	Outflow Tract Ablation Using a Conditionally Cytotoxic Feline Immunodeficiency Viral Vector. , 2014, 55, 935.		19
54	Combined analysis of trabectome and phaco-trabectome outcomes by glaucoma severity. F1000Research, 0, 5, 762.	1.6	19

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55	Training strategies and outcomes of ab interno trabeculectomy with the trabectome. F1000Research, 2017, 6, 67.	1.6	18
56	Predictive value of early postoperative IOP and bleb morphology in Mitomycin-C augmented trabeculectomy. F1000Research, 2017, 6, 1898.	1.6	18
57	Predictive value of early postoperative IOP and bleb morphology in Mitomycin-C augmented trabeculectomy. F1000Research, 2017, 6, 1898.	1.6	17
58	Randomized Controlled Comparison of Titanium-Sapphire Versus Standard Q-Switched Nd:YAG Laser Trabeculectomy. Journal of Glaucoma, 2016, 25, e663-e667.	1.6	16
59	Dose-dependent effects of netarsudil, a Rho-kinase inhibitor, on the distal outflow tract. Graefe's Archive for Clinical and Experimental Ophthalmology, 2020, 258, 1211-1216.	1.9	15
60	Long-term retinal transgene expression with FIV versus adenoviral vectors. Molecular Vision, 2004, 10, 272-80.	1.1	15
61	Factors associated with lamina cribrosa displacement after trabeculectomy measured by optical coherence tomography in advanced primary open-angle glaucoma. Graefe's Archive for Clinical and Experimental Ophthalmology, 2018, 256, 2391-2398.	1.9	14
62	Combined phacoemulsification and trabectome for treatment of glaucoma. Survey of Ophthalmology, 2017, 62, 698-705.	4.0	12
63	Longer-term Baerveldt to Trabectome glaucoma surgery comparison using propensity score matching. Graefe's Archive for Clinical and Experimental Ophthalmology, 2017, 255, 2423-2428.	1.9	12
64	Lamina Cribrosa Capillaries Straighten as Intraocular Pressure Increases. , 2020, 61, 2.		12
65	Intraocular pressure elevation precedes a phagocytosis decline in a model of pigmentary glaucoma. F1000Research, 2018, 7, 174.	1.6	12
66	There has to be a better way: evolution of internal filtration glaucoma surgeries. British Journal of Ophthalmology, 2013, 97, 1228-1229.	3.9	11
67	Elevation of Intraocular Pressure in Glaucoma Patients After Automated Visual Field Testing. Journal of Glaucoma, 2012, 21, 590-595.	1.6	10
68	Impact of pigment dispersion on trabecular meshwork cells. Graefe's Archive for Clinical and Experimental Ophthalmology, 2019, 257, 1217-1230.	1.9	10
69	Intraocular pressure reduction in a pigmentary glaucoma model by Goniotome Ab interno trabeculectomy. PLoS ONE, 2020, 15, e0231360.	2.5	10
70	Similar Performance of Trabectome and Ahmed Glaucoma Devices in a Propensity Score-matched Comparison. Journal of Glaucoma, 2018, 27, 490-495.	1.6	9
71	Comparison of a second-generation trabecular bypass (iStent inject) to ab interno trabeculectomy (Trabectome) by exact matching. Graefe's Archive for Clinical and Experimental Ophthalmology, 2020, 258, 2775-2780.	1.9	9
72	Clinicopathologic Correlation of Disc and Peripapillary Region Using SD-OCT. Optometry and Vision Science, 2013, 90, 84-93.	1.2	8

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73	Fuchs heterochromic iridocyclitis-associated glaucoma: a retrospective comparison of primary Ahmed glaucoma valve implantation and trabeculectomy with mitomycin C. F1000Research, 2018, 7, 876.	1.6	8
74	Production, Harvest, and Concentration of Feline Immunodeficiency Virus-Based Lentiviral Vector from Cells Grown in CF10 or CF2 Devices. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot067546.	0.3	7
75	Efficacy and safety of micropulse laser trabeculoplasty for primary open angle glaucoma. International Journal of Ophthalmology, 2019, 12, 784-788.	1.1	7
76	Outflow facility and extent of angle closure in a porcine model. Graefe's Archive for Clinical and Experimental Ophthalmology, 2019, 257, 1239-1245.	1.9	7
77	Exact matching of trabectome-mediated ab interno trabeculectomy to conventional trabeculectomy with mitomycin C followed for 2 years. Graefe's Archive for Clinical and Experimental Ophthalmology, 2021, 259, 963-970.	1.9	7
78	Association between conventional or blue-light-filtering intraocular lenses and survival in bilateral cataract surgery patients. IScience, 2021, 24, 102009.	4.1	7
79	The use of cycloplegic agents. Results of a 1999 survey of German-speaking centers for pediatric ophthalmology and strabology. Strabismus, 2000, 8, 91-99.	0.7	7
80	Production and Harvest of Feline Immunodeficiency Virus-Based Lentiviral Vector from Cells Grown in T75 Tissue-Culture Flasks. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot067553-pdb.prot067553.	0.3	6
81	iStent surgery as an option for mild to moderate glaucoma. Expert Review of Ophthalmology, 2014, 9, 11-16.	0.6	6
82	Low iris and anterior chamber volume is associated with deepening after laser peripheral iridotomy in primary angle closure suspects. Graefe's Archive for Clinical and Experimental Ophthalmology, 2018, 256, 2173-2179.	1.9	6
83	Titration of Feline Immunodeficiency Virus-Based Lentiviral Vector Preparations. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot067561-pdb.prot067561.	0.3	5
84	Combined vitrectomy, near-confluent panretinal endolaser, bevacizumab and cyclophotocoagulation for neovascular glaucoma – a retrospective interventional case series. F1000Research, 2020, 9, 1236.	1.6	5
85	Trabectome-Mediated Ab Interno Trabeculectomy for Secondary Glaucoma or as a Secondary Procedure. Essentials in Ophthalmology, 2015, , 15-29.	0.1	5
86	Fuchs heterochromic iridocyclitis-associated glaucoma: a retrospective comparison of primary Ahmed glaucoma valve implantation and trabeculectomy with mitomycin C. F1000Research, 2018, 7, 876.	1.6	5
87	Regression Analysis of Optical Coherence Tomography Disc Variables for Glaucoma Diagnosis. Journal of Glaucoma, 2016, 25, 634-642.	1.6	4
88	Ripasudil in a Model of Pigmentary Glaucoma. Translational Vision Science and Technology, 2020, 9, 27.	2.2	4
89	Combined vitrectomy, near-confluent panretinal endolaser, bevacizumab and cyclophotocoagulation for neovascular glaucoma – a retrospective interventional case series. F1000Research, 2020, 9, 1236.	1.6	4
90	Two-year outcomes of ab interno trabeculectomy with the Trabectome for Chinese primary open angle glaucoma: a retrospective multicenter study. International Journal of Ophthalmology, 2018, 11, 945-950.	1.1	4

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91	3D-Reconstruction of the human conventional outflow system by ribbon scanning confocal microscopy. <i>PLoS ONE</i> , 2020, 15, e0232833.	2.5	3
92	Extended pharmacological miosis is superfluous after glaucoma angle surgery: A retrospective study. <i>F1000Research</i> , 2018, 7, 178.	1.6	3
93	Retrospective evaluation of two-year results with a filtering trabeculotomy in comparison to conventional trabeculectomy by exact matching. <i>F1000Research</i> , 2020, 9, 1245.	1.6	2
94	Retrospective evaluation of two-year results with a filtering trabeculotomy in comparison to conventional trabeculectomy by exact matching. <i>F1000Research</i> , 2020, 9, 1245.	1.6	2
95	Impact of same-session trabectome surgery on Ahmed glaucoma valve outcomes. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2018, 256, 1509-1515.	1.9	1
96	Glaucoma Risk Factors: Intraocular Pressure. , 2010, , 35-50.		1
97	Trabectome Patient Selection, Preparation, Technique, Management, and Outcomes. <i>US Ophthalmic Review</i> , 2015, 08, 103.	0.2	1
98	Effect of alpha-2-agonist premedication on intraocular pressure after selective laser trabeculoplasty. <i>Indian Journal of Ophthalmology</i> , 2015, 63, 891.	1.1	1
99	HIOP-Reader: Automated Data Extraction for the Analysis of Manually Recorded Nycthemeral IOPs and Glaucoma Progression. <i>Translational Vision Science and Technology</i> , 2022, 11, 22.	2.2	1
100	Outcomes analysis of trabecular meshwork bypass devices. <i>Expert Review of Ophthalmology</i> , 2017, 12, 83-91.	0.6	0
101	Factors associated with lamina cribrosa displacement after trabeculectomy. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2019, 257, 435-436.	1.9	0
102	Impact of freeze-thaw cytoablation on aqueous outflow patterns in ex vivo anterior chamber perfusion cultures and whole eyes. <i>F1000Research</i> , 0, 10, 525.	1.6	0
103	Prolonged transgene expression with lentiviral vectors in the aqueous humor outflow pathway of non-human primates. <i>Human Gene Therapy</i> , 2008, .	2.7	0
104	Ophthalmic Surgical Procedures. <i>Journal of Glaucoma</i> , 2010, 19, 344-345.	1.6	0
105	Glaucoma Risk Factors: Intraocular Pressure. , 2014, , 1-22.		0
106	Imaging Aqueous Outflow. <i>Essentials in Ophthalmology</i> , 2020, , 83-97.	0.1	0
107	Combining Baerveldt Implant with Trabectome Negates Tube Fenestration: A Coarsened-matched Comparison. <i>Journal of Ophthalmic and Vision Research</i> , 2020, 15, 509-516.	1.0	0
108	Combining Baerveldt Implant with Trabectome Negates Tube Fenestration: A Coarsened-matched Comparison. <i>Journal of Ophthalmic and Vision Research</i> , 2020, 15, 509-516.	1.0	0

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109	Impact of freeze-thaw cytoablation on aqueous outflow patterns in ex vivo anterior chamber perfusion cultures and whole eyes. F1000Research, 0, 10, 525.	1.6	0
110	Inter-eye correlation analysis of 24-h IOPs and glaucoma progression. Graefe's Archive for Clinical and Experimental Ophthalmology, 2022, , .	1.9	0