

Nils A Loewen

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

2,687
citations

218381

26
h-index

264894

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. | 2.1 | 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. | 1.5 | 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. | 1.7 | 92 |
| 4 | Outcomes of ab interno trabeculectomy with the trabectome by degree of angle opening. British Journal of Ophthalmology, 2015, 99, 914-919. | 2.1 | 85 |
| 5 | Genetic Modification of Human Trabecular Meshwork with Lentiviral Vectors. Human Gene Therapy, 2001, 12, 2109-2119. | 1.4 | 79 |
| 6 | Outcomes of ab interno trabeculectomy with the trabectome after failed trabeculectomy. British Journal of Ophthalmology, 2015, 99, 258-262. | 2.1 | 71 |
| 7 | Glaucoma and Aging. Current Aging Science, 2011, 4, 110-117. | 0.4 | 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. | 1.1 | 64 |
| 9 | Techniques and outcomes of minimally invasive trabecular ablation and bypass surgery. British Journal of Ophthalmology, 2014, 98, 579-585. | 2.1 | 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. | 1.1 | 59 |
| 11 | Predicting Development of Glaucomatous Visual Field Conversion Using Baseline Fourier-Domain Optical Coherence Tomography. American Journal of Ophthalmology, 2016, 163, 29-37. | 1.7 | 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. | 3.7 | 50 |
| 14 | Prolonged Transgene Expression with Lentiviral Vectors in the Aqueous Humor Outflow Pathway of Nonhuman Primates. Human Gene Therapy, 2009, 20, 191-200. | 1.4 | 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. | 1.3 | 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. | 1.1 | 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. | 0.6 | 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. | 1.6 | 42 |
| 22 | Glaucoma Surgery Calculator: Limited Additive Effect of Phacoemulsification on Intraocular Pressure in Ab Interno Trabeculectomy. <i>PLoS ONE</i> , 2016, 11, e0153585. | 1.1 | 41 |
| 23 | Structureâ€“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. | 1.4 | 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. | 1.0 | 39 |
| 27 | Rapid learning curve assessment in an ex vivo training system for microincisional glaucoma surgery. <i>Scientific Reports</i> , 2017, 7, 1605. | 1.6 | 38 |
| 28 | Steroidâ€“induced glaucoma treated with trabecular ablation in a matched comparison with primary openâ€“angle glaucoma. <i>Clinical and Experimental Ophthalmology</i> , 2016, 44, 783-788. | 1.3 | 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. | 2.1 | 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 MÃ¼ller cells involves the very low density lipoprotein receptor as part of an angiogenic network. <i>Experimental Eye Research</i> , 2009, 88, 928-937. | 1.2 | 28 |
| 34 | SALT Trial: Steroids after Laser Trabeculoplasty. <i>Ophthalmology</i> , 2019, 126, 1511-1516. | 2.5 | 28 |
| 35 | Bilateral Irreversible Severe Vision Loss From Cosmetic Iris Implants. <i>American Journal of Ophthalmology</i> , 2011, 151, 872-875.e1. | 1.7 | 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. | 1.0 | 27 |

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|----|---|-----|-----------|
| 37 | Combined analysis of trabectome and phaco-trabectome outcomes by glaucoma severity. F1000Research, 2016, 5, 762. | 0.8 | 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. | 0.7 | 26 |
| 39 | Freeze-thaw decellularization of the trabecular meshwork in an <i>ex vivo</i> eye perfusion model. PeerJ, 2017, 5, e3629. | 0.9 | 26 |
| 40 | Advanced Imaging for Glaucoma Study: Design, Baseline Characteristics, and Inter-site Comparison. American Journal of Ophthalmology, 2015, 159, 393-403.e2. | 1.7 | 24 |
| 41 | A porcine <i>ex vivo</i> model of pigmentary glaucoma. Scientific Reports, 2018, 8, 5468. | 1.6 | 24 |
| 42 | Training strategies and outcomes of ab interno trabeculectomy with the trabectome. F1000Research, 2017, 6, 67. | 0.8 | 24 |
| 43 | Characterization of monoclonal antibodies against the glaucoma-associated protein myocilin. Experimental Eye Research, 2008, 87, 376-384. | 1.2 | 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. | 1.2 | 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. | 1.0 | 23 |
| 47 | Stratification of phaco-trabectome surgery results using a glaucoma severity index in a retrospective analysis. BMC Ophthalmology, 2017, 17, 30. | 0.6 | 22 |
| 48 | Angle stability and outflow in dual blade ab interno trabeculectomy with active versus passive chamber management. PLoS ONE, 2017, 12, e0177238. | 1.1 | 22 |
| 49 | Intraocular pressure elevation precedes a phagocytosis decline in a model of pigmentary glaucoma. F1000Research, 2018, 7, 174. | 0.8 | 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. | 0.2 | 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. | 0.8 | 19 |

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|----|---|-----|-----------|
| 55 | Training strategies and outcomes of ab interno trabeculectomy with the trabectome. F1000Research, 2017, 6, 67. | 0.8 | 18 |
| 56 | Predictive value of early postoperative IOP and bleb morphology in Mitomycin-C augmented trabeculectomy. F1000Research, 2017, 6, 1898. | 0.8 | 18 |
| 57 | Predictive value of early postoperative IOP and bleb morphology in Mitomycin-C augmented trabeculectomy. F1000Research, 2017, 6, 1898. | 0.8 | 17 |
| 58 | Randomized Controlled Comparison of Titanium-Sapphire Versus Standard Q-Switched Nd:YAG Laser Trabeculectomy. Journal of Glaucoma, 2016, 25, e663-e667. | 0.8 | 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. | 1.0 | 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. | 1.0 | 14 |
| 62 | Combined phacoemulsification and trabectome for treatment of glaucoma. Survey of Ophthalmology, 2017, 62, 698-705. | 1.7 | 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. | 1.0 | 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. | 0.8 | 12 |
| 66 | There has to be a better way: evolution of internal filtration glaucoma surgeries. British Journal of Ophthalmology, 2013, 97, 1228-1229. | 2.1 | 11 |
| 67 | Elevation of Intraocular Pressure in Glaucoma Patients After Automated Visual Field Testing. Journal of Glaucoma, 2012, 21, 590-595. | 0.8 | 10 |
| 68 | Impact of pigment dispersion on trabecular meshwork cells. Graefe's Archive for Clinical and Experimental Ophthalmology, 2019, 257, 1217-1230. | 1.0 | 10 |
| 69 | Intraocular pressure reduction in a pigmentary glaucoma model by Goniotome Ab interno trabeculectomy. PLoS ONE, 2020, 15, e0231360. | 1.1 | 10 |
| 70 | Similar Performance of Trabectome and Ahmed Glaucoma Devices in a Propensity Score-matched Comparison. Journal of Glaucoma, 2018, 27, 490-495. | 0.8 | 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. | 1.0 | 9 |
| 72 | Clinicopathologic Correlation of Disc and Peripapillary Region Using SD-OCT. Optometry and Vision Science, 2013, 90, 84-93. | 0.6 | 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. | 0.8 | 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. | 0.2 | 7 |
| 75 | Efficacy and safety of micropulse laser trabeculectomy for primary open angle glaucoma. International Journal of Ophthalmology, 2019, 12, 784-788. | 0.5 | 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. | 1.0 | 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. | 1.0 | 7 |
| 78 | Association between conventional or blue-light-filtering intraocular lenses and survival in bilateral cataract surgery patients. IScience, 2021, 24, 102009. | 1.9 | 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. | 0.4 | 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. | 0.2 | 6 |
| 81 | iStent surgery as an option for mild to moderate glaucoma. Expert Review of Ophthalmology, 2014, 9, 11-16. | 0.3 | 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. | 1.0 | 6 |
| 83 | Titration of Feline Immunodeficiency Virus-Based Lentiviral Vector Preparations. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot067561-pdb.prot067561. | 0.2 | 5 |
| 84 | Combined vitrectomy, near-confluent panretinal endolaser, bevacizumab and cyclophotocoagulation for neovascular glaucoma – a retrospective interventional case series. F1000Research, 2020, 9, 1236. | 0.8 | 5 |
| 85 | Trabectome-Mediated Ab Interno Trabeculectomy for Secondary Glaucoma or as a Secondary Procedure. Essentials in Ophthalmology, 2015, , 15-29. | 0.0 | 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. | 0.8 | 5 |
| 87 | Regression Analysis of Optical Coherence Tomography Disc Variables for Glaucoma Diagnosis. Journal of Glaucoma, 2016, 25, 634-642. | 0.8 | 4 |
| 88 | Ripasudil in a Model of Pigmentary Glaucoma. Translational Vision Science and Technology, 2020, 9, 27. | 1.1 | 4 |
| 89 | Combined vitrectomy, near-confluent panretinal endolaser, bevacizumab and cyclophotocoagulation for neovascular glaucoma – a retrospective interventional case series. F1000Research, 2020, 9, 1236. | 0.8 | 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. | 0.5 | 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. | 1.1 | 3 |
| 92 | Extended pharmacological miosis is superfluous after glaucoma angle surgery: A retrospective study. <i>F1000Research</i> , 2018, 7, 178. | 0.8 | 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. | 0.8 | 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. | 0.8 | 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. | 1.0 | 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. | 0.5 | 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. | 1.1 | 1 |
| 100 | Outcomes analysis of trabecular meshwork bypass devices. <i>Expert Review of Ophthalmology</i> , 2017, 12, 83-91. | 0.3 | 0 |
| 101 | Factors associated with lamina cribrosa displacement after trabeculectomy. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2019, 257, 435-436. | 1.0 | 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. | 0.8 | 0 |
| 103 | Prolonged transgene expression with lentiviral vectors in the aqueous humor outflow pathway of non-human primates. <i>Human Gene Therapy</i> , 2008, . | 1.4 | 0 |
| 104 | Ophthalmic Surgical Procedures. <i>Journal of Glaucoma</i> , 2010, 19, 344-345. | 0.8 | 0 |
| 105 | Glaucoma Risk Factors: Intraocular Pressure. , 2014, , 1-22. | | 0 |
| 106 | Imaging Aqueous Outflow. <i>Essentials in Ophthalmology</i> , 2020, , 83-97. | 0.0 | 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. | 0.7 | 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. | 0.7 | 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. | 0.8 | 0 |
| 110 | Inter-eye correlation analysis of 24-h IOPs and glaucoma progression. Graefe's Archive for Clinical and Experimental Ophthalmology, 2022, , . | 1.0 | 0 |