Neil S Lagali

List of Publications by Year
in descending order

127 papers	4,078 citations	212478 28 h-index	198040 52 g-index
134 all docs	134 docs citations	134 times ranked	4014 citing authors

#	Article	IF	Citations
1	Chambered warm moist air eyelid warming devices â€“ a review. Acta Ophthalmologica, 2022, 100, 499-510.	0.6	2
2	The use of in vivo confocal microscopy in fungal keratitis â€“ Progress and challenges. Ocular Surface, 2022, 24, 103-118.	2.2	18
3	Abnormal neovascular and proliferative conjunctival phenotype in limbal stem cell deficiency is associated with altered microRNA and gene expression modulated by PAX6 mutational status in congenital aniridia. Ocular Surface, 2021, 19, 115-127.	2.2	22
4	Parkinsonâ€™s disease with restless legs syndromeâ€”an in vivo corneal confocal microscopy study. Npj Parkinson's Disease, 2021, 7, 4.	2.5	10
5	Relapse of pathological angiogenesis: functional role of the basement membrane and potential treatment strategies. Experimental and Molecular Medicine, 2021, 53, 189-201.	3.2	26
6	Outcomes of Human Leukocyte Antigenâ€“Matched Allogeneic Cultivated Limbal Epithelial Transplantation in Aniridia-Associated Keratopathyâ€”A Single-Center Retrospective Analysis. Cornea, 2021, Publish Ahead of Print, 69-77.	0.9	6
7	Temporal trend of small nerve fibre degeneration in people with and without type 2 diabetes mellitus. Diabetic Medicine, 2021, , e14691.	1.2	1
8	Pathophysiology of aniridia-associated keratopathy: Developmental aspects and unanswered questions. Ocular Surface, 2021, 22, 245-266.	2.2	30
9	The pattern of the inferocentral whorl region of the corneal subbasal nerve plexus is altered with age. Ocular Surface, 2021, 22, 204-212.	2.2	8
10	Congenital aniridia â€“ A comprehensive review of clinical features and therapeutic approaches. Survey of Ophthalmology, 2021, 66, 1031-1050.	1.7	46
11	Diagnostic Criteria for Terrien Marginal Degeneration: Nordic Terrien Degeneration Study. Cornea, 2021, 40, 133-141.	0.9	5
12	Artificial Cornea: Past, Current, and Future Directions. Frontiers in Medicine, 2021, 8, 770780.	1.2	29
13	TheraPearl Eye Mask and Blephasteam for the treatment of meibomian gland dysfunction: a randomized, comparative clinical trial. Scientific Reports, 2021, 11, 22386.	1.6	7
14	Wide-field mosaics of the corneal subbasal nerve plexus in Parkinsonâ€™s disease using in vivo confocal microscopy. Scientific Data, 2021, 8, 306.	2.4	8
15	Corneal Stromal Regeneration: Current Status and Future Therapeutic Potential. Current Eye Research, 2020, 45, 278-290.	0.7	55
16	Functional and Morphological Evaluation of Meibomian Glands in the Assessment of Meibomian Gland Dysfunction Subtype and Severity. American Journal of Ophthalmology, 2020, 209, 160-167.	1.7	32
17	PAX6 Mutational Status Determines Aniridia-Associated Keratopathy Phenotype. Ophthalmology, 2020, 127, 273-275.	2.5	32
18	Early phenotypic features of aniridia-associated keratopathy and association with PAX6 coding mutations. Ocular Surface, 2020, 18, 130-140.	2.2	32

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19	Region of interest and directional analysis of subbasal nerves in wide-area corneal nerve plexus mosaics in type 2 diabetes mellitus. Scientific Reports, 2020, 10, 10802.	1.6	5
20	In Vivo Confocal Microscopy of the Corneal-Conjunctival Transition in the Evaluation of Epithelial Renewal after SLET. Journal of Clinical Medicine, 2020, 9, 3574.	1.0	5
21	A porous collagen-based hydrogel and implantation method for corneal stromal regeneration and sustained local drug delivery. Scientific Reports, 2020, 10, 16936.	1.6	34
22	In Vitro Evaluation and Transplantation of Human Corneal Endothelial Cells Cultured on Biocompatible Carriers. Cell Transplantation, 2020, 29, 096368972092357.	1.2	10
23	Microdot Accumulation in the Anterior Cornea with Aging â€“ Quantitative Analysis with in Vivo Confocal Microscopy. Current Eye Research, 2020, 45, 1058-1064.	0.7	5
24	Photoreceptor Degeneration Accompanies Vascular Changes in a Zebrafish Model of Diabetic Retinopathy. , 2020, 61, 43.		22
25	Utility of Tear Osmolarity Measurement in Diagnosis of Dry Eye Disease. Scientific Reports, 2020, 10, 5542.	1.6	34
26	Discovery of novel L-type voltage-gated calcium channel blockers and application for the prevention of inflammation and angiogenesis. Journal of Neuroinflammation, 2020, 17, 132.	3.1	25
27	Femtosecond Laser-Assisted Surgery for Implantation of Bioengineered Corneal Stroma to Promote Corneal Regeneration. Methods in Molecular Biology, 2020, 2145, 197-214.	0.4	1
28	Repeat Corneal Neovascularization is Characterized by More Aggressive Inflammation and Vessel Invasion Than in the Initial Phase. , 2019, 60, 2990.		12
29	High fluence PACK-CXL as adjuvant treatment for advanced Acanthamoeba keratitis. American Journal of Ophthalmology Case Reports, 2019, 15, 100499.	0.4	15
30	In vivo confocal microscopy of verticillata-like paraproteinemic keratopathy in a patient with monoclonal gammopathy of uncertain significance evolving into smoldering multiple myeloma. American Journal of Ophthalmology Case Reports, 2019, 15, 100505.	0.4	4
31	Revascularization after angiogenesis inhibition favors new sprouting over abandoned vessel reuse. Angiogenesis, 2019, 22, 553-567.	3.7	25
32	Characteristics and Utility of Fundus Autofluorescence in Congenital Aniridia Using Scanning Laser Ophthalmoscopy. , 2019, 60, 4120.		7
33	Intussusceptive Vascular Remodeling Precedes Pathological Neovascularization. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 1402-1418.	1.1	20
34	MicroRNAs in the cornea: Role and implications for treatment of corneal neovascularization. Ocular Surface, 2019, 17, 400-411.	2.2	31
35	Diagnostic Test Efficacy of Meibomian Gland Morphology and Function. Scientific Reports, 2019, 9, 17345.	1.6	14
36	Meibomian Gland Morphology Is a Sensitive Early Indicator of Meibomian Gland Dysfunction. American Journal of Ophthalmology, 2019, 200, 16-25.	1.7	54

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37	Meibomian gland dysfunction and keratopathy are associated with dry eye disease in aniridia. British Journal of Ophthalmology, 2019, 103, 119-124.	2.1	17
38	Need for technologies in advanced corneal research, diagnosis, and transplantation. , 2019, , .		0
39	Time-dependent LXR/RXR pathway modulation characterizes capillary remodeling in inflammatory corneal neovascularization. Angiogenesis, 2018, 21, 395-413.	3.7	27
40	Selective IKK2 inhibitor IMD0354 disrupts NF-Î¹B signaling to suppress corneal inflammation and angiogenesis. Angiogenesis, 2018, 21, 267-285.	3.7	60
41	The genetics of congenital aniridiaâ€"a guide for the ophthalmologist. Survey of Ophthalmology, 2018, 63, 105-113.	1.7	36
42	Stage-related central corneal epithelial transformation in congenital aniridia-associated keratopathy. Ocular Surface, 2018, 16, 163-172.	2.2	20
43	Tear Production Levels and Dry Eye Disease Severity in a Large Norwegian Cohort. Current Eye Research, 2018, 43, 1465-1470.	0.7	8
44	Wide-field corneal subbasal nerve plexus mosaics in age-controlled healthy and type 2 diabetes populations. Scientific Data, 2018, 5, 180075.	2.4	24
45	The Level of Inflammatory Tear Cytokines is Elevated in Congenital Aniridia and Associated with Meibomian Gland Dysfunction. , 2018, 59, 2197.		38
46	Dendritic cell maturation in the corneal epithelium with onset of type 2 diabetes is associated with tumor necrosis factor receptor superfamily member 9. Scientific Reports, 2018, 8, 14248.	1.6	56
47	Identification of Objective Morphometric Markers of Xerostomia in the Oral Mucosa Epithelium with In Vivo Confocal Microscopy. Microscopy and Microanalysis, 2017, 23, 88-96.	0.2	1
48	Genome-wide expression datasets of anti-VEGF and dexamethasone treatment of angiogenesis in the rat cornea. Scientific Data, 2017, 4, 170111.	2.4	4
49	Association between HbA_{1c} and peripheral neuropathy in a 10-year follow-up study of people with normal glucose tolerance, impaired glucose tolerance and Type 2 diabetes. Diabetic Medicine, 2017, 34, 1756-1764.	1.2	20
50	Genome-wide expression differences in anti-Vegf and dexamethasone treatment of inflammatory angiogenesis in the rat cornea. Scientific Reports, 2017, 7, 7616.	1.6	12
51	Diagnostic and therapeutic challenges in a case of amikacinâ€resistant Nocardia keratitis. Acta Ophthalmologica, 2017, 95, 103-105.	0.6	16
52	Reduced Corneal Nerve Fiber Density in Type 2 Diabetes by Wide-Area Mosaic Analysis. , 2017, 58, 6318.		36
53	Protective Effects of Oral Astaxanthin Nanopowder against Ultraviolet-Induced Photokeratitis in Mice. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-13.	1.9	15
54	3D Corneal Shape After Implantation of a Biosynthetic Corneal Stromal Substitute. , 2016, 57, 2355.		14

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55	Dry Eye Disease Patients with Xerostomia Report Higher Symptom Load and Have Poorer Meibum Expressibility. PLoS ONE, 2016, 11, e0155214.	1.1	6
56	Effect of connexin 43 inhibition by the mimetic peptide Gap27 on corneal wound healing, inflammation and neovascularization. British Journal of Pharmacology, 2016, 173, 2880-2893.	2.7	41
57	A microarray whole-genome gene expression dataset in a rat model of inflammatory corneal angiogenesis. Scientific Data, 2016, 3, 160103.	2.4	8
58	<scp>RGTA</scp> in corneal wound healing after transepithelial laser ablation in a rabbit model: a randomized, blinded, placeboâ€controlled study. Acta Ophthalmologica, 2016, 94, 685-691.	0.6	8
59	Congenital Aniridia and the Ocular Surface. Ocular Surface, 2016, 14, 196-206.	2.2	35
60	Corneal Nerve Regeneration After Collagen Cross-Linking Treatment of Keratoconus. JAMA Ophthalmology, 2016, 134, 70.	1.4	34
61	Composite core-and-skirt collagen hydrogels with differential degradation for corneal therapeutic applications. Biomaterials, 2016, 83, 142-155.	5.7	43
62	Factors regulating capillary remodeling in a reversible model of inflammatory corneal angiogenesis. Scientific Reports, 2016, 6, 32137.	1.6	27
63	Focused Tortuosity Definitions Based on Expert Clinical Assessment of Corneal Subbasal Nerves. , 2015, 56, 5102.		32
64	Enhanced Regeneration of Corneal Tissue via a Bioengineered Collagen Construct Implanted by a Nondisruptive Surgical Technique. Tissue Engineering - Part A, 2015, 21, 1116-1130.	1.6	44
65	Platelet-Rich Plasma Prolongs Myofibroblast Accumulation in Corneal Stroma with Incisional Wound. Current Eye Research, 2015, 40, 1102-1110.	0.7	10
66	Pathologically Reduced Subbasal Nerve Density in Epithelial Basement Membrane Dystrophy Is Unaltered by Phototherapeutic Keratectomy Treatment. , 2014, 55, 1835.		12
67	Cataract development in Norwegian patients with congenital aniridia. Acta Ophthalmologica, 2014, 92, e165-7.	0.6	19
68	Stable corneal regeneration four years after implantation of a cell-free recombinant human collagen scaffold. Biomaterials, 2014, 35, 2420-2427.	5.7	233
69	Corrigendum to â€œCorneal Regeneration Following Implantation of a Biomimetic Tissue-Engineered Substituteâ€• Clinical and Translational Science, 2014, 7, 347-347.	1.5	1
70	Early effects of dexamethasone and anti-VEGF therapy in an inflammatory corneal neovascularization model. Experimental Eye Research, 2014, 125, 118-127.	1.2	51
71	An in Vivo Method for Visualizing Flow Dynamics of Cells within Corneal Lymphatics. Lymphatic Research and Biology, 2013, 11, 93-100.	0.5	5
72	Analysis of protein composition and protein expression in the tear fluid of patients with congenital aniridia. Journal of Proteomics, 2013, 94, 78-88.	1.2	27

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73	In Vivo Confocal Microscopy of the Cornea to Assess Tissue Regenerative Response After Biomaterial Implantation in Humans. Methods in Molecular Biology, 2013, 1014, 211-223.	0.4	4
74	In Vivo Morphology of the Limbal Palisades of Vogt Correlates With Progressive Stem Cell Deficiency in Aniridia-Related Keratopathy. , 2013, 54, 5333.		82
75	Age-Related Thinning of Bowman's Layer in the Human Cornea In Vivo. , 2013, 54, 6143.		34
76	Standardized Baseline Human Corneal Subbasal Nerve Density for Clinical Investigations With Laser-Scanning in Vivo Confocal Microscopy. , 2013, 54, 7091.		79
77	In vivo integrity of intra-corneal bioengineered discs in rabbit models. Acta Ophthalmologica, 2013, 91, 0-0.	0.6	0
78	Pathologic Epithelial and Anterior Corneal Nerve Morphology in Early-Stage Congenital Aniridic Keratopathy. Ophthalmology, 2012, 119, 1803-1810.	2.5	45
79	An Accurate Method to Determine Bowman's Layer Thickness In Vivo in the Human Cornea. , 2012, 53, 2354.		10
80	Biosynthetic corneas: prospects for supplementing the human donor cornea supply. Expert Review of Medical Devices, 2011, 8, 127-130.	1.4	17
81	Clinical Outcome and Recurrence of Epithelial Basement Membrane Dystrophy after Phototherapeutic Keratectomy. Ophthalmology, 2011, 118, 515-522.	2.5	19
82	Biosynthetic Corneal Implants for Replacement of Pathologic Corneal Tissue: Performance in a Controlled Rabbit Alkali Burn Model. , 2011, 52, 651.		62
83	In vivo confocal microscopy visualization of presumed lymph vessels in a case of corneal transplant rejection. Clinical and Experimental Ophthalmology, 2011, 39, 832-834.	1.3	11
84	Cellular level characterization of capillary regression in inflammatory angiogenesis using an in vivo corneal model. Angiogenesis, 2011, 14, 393-405.	3.7	29
85	Time-Lapse In Vivo Imaging of Corneal Angiogenesis: The Role of Inflammatory Cells in Capillary Sprouting. , 2011, 52, 3060.		29
86	Regenerative Medicine in the Cornea. , 2011, , 911-924.		2
87	Corneal Cell and Nerve Regeneration promoted by Biosynthetic Implants. Acta Ophthalmologica, 2011, 89, 0-0.	0.6	0
88	Dystrophia Smolandiensis: a novel morphological picture of recurrent corneal erosions. Acta Ophthalmologica, 2010, 88, 394-400.	0.6	16
89	Transient Anterior Corneal Deposits in a Human Immunodeficiency Virus-Positive Patient. Cornea, 2010, 29, 1323-1327.	0.9	4
90	Author Response: Donor Cell Survival in Corneal Grafts. , 2010, 51, 3843.		0

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91	Donor and Recipient Endothelial Cell Population of the Transplanted Human Cornea: A Two-Dimensional Imaging Study. , 2010, 51, 1898.		47
92	Cellular-Level Characterization of Lymph Vessels in Live, Unlabeled Corneas by In Vivo Confocal Microscopy. , 2010, 51, 830.		28
93	A Biosynthetic Alternative to Human Donor Tissue for Inducing Corneal Regeneration: 24-Month Follow-Up of a Phase 1 Clinical Study. Science Translational Medicine, 2010, 2, 46ra61.	5.8	311
94	Pathologic epithelial and anterior corneal nerve morphology in congenital aniridic keratopathy. Acta Ophthalmologica, 2010, 88, 0-0.	0.6	0
95	Donor and recipient endothelial cell populations in transplanted corneas: new insights from endothelial imaging. Acta Ophthalmologica, 2010, 88, 0-0.	0.6	0
96	Biosynthetic corneas - 2 year post human implantation. Acta Ophthalmologica, 2010, 88, 0-0.	0.6	0
97	Survival of Donor-Derived Cells in Human Corneal Transplants. , 2009, 50, 2673.		33
98	The Role of Bowmanâ€™s Layer in Corneal Regeneration after Phototherapeutic Keratectomy: A Prospective Study Using In Vivo Confocal Microscopy. , 2009, 50, 4192.		51
99	Corneal Regeneration Following Implantation of a Biomimetic Tissueâ€Engineered Substitute. Clinical and Translational Science, 2009, 2, 162-164.	1.5	74
100	Artificial corneas: a regenerative medicine approach. Eye, 2009, 23, 1985-1989.	1.1	62
101	Collagenâ€“phosphorylcholine interpenetrating network hydrogels as corneal substitutes. Biomaterials, 2009, 30, 1551-1559.	5.7	171
102	A case of chronic ocular irritation associated with progressive corneal opacification. Acta Ophthalmologica, 2009, 87, 932-934.	0.6	0
103	Delayed Mustard Gas Keratitis: Clinical Course and In Vivo Confocal Microscopy Findings. Cornea, 2009, 28, 458-462.	0.9	16
104	In Vivo Confocal Microscopy of the Cornea in Darier-White Disease. JAMA Ophthalmology, 2009, 127, 816.	2.6	5
105	Biosynthetic corneas - evaluation in humans. Acta Ophthalmologica, 2009, 87, 0-0.	0.6	0
106	Recombinant human collagen for tissue engineered corneal substitutes. Biomaterials, 2008, 29, 1147-1158.	5.7	202
107	PEG-stabilized carbodiimide crosslinked collagenâ€“chitosan hydrogels for corneal tissue engineering. Biomaterials, 2008, 29, 3960-3972.	5.7	360
108	Corneal injury by formic acid: 1-year clinical course and in-vivo confocal microscopic evaluation. Clinical and Experimental Ophthalmology, 2008, 36, 692-4.	1.3	4

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109	Tissue-Engineered Recombinant Human Collagen-Based Corneal Substitutes for Implantation: Performance of Type I versus Type III Collagen. , 2008, 49, 3887.		116
110	Innervation of Tissue-Engineered Recombinant Human Collagen-Based Corneal Substitutes: A Comparative In Vivo Confocal Microscopy Study. , 2008, 49, 3895.		31
111	A novel method of using hollow-core photonic crystal fiber as a Raman biosensor. , 2008, , .		9
112	Regeneration of Corneal Cells and Nerves in an Implanted Collagen Corneal Substitute. Cornea, 2008, 27, 580-589.	0.9	30
113	Biosynthetic corneas - an update. Acta Ophthalmologica, 2008, 86, 0-0.	0.6	0
114	Innervation of Tissue-Engineered Corneal Implants in a Porcine Model: A 1-Year In Vivo Confocal Microscopy Study. , 2007, 48, 3537.		24
115	Optical indicators of baseline blood status in dialysis patients. , 2007, , .		0
116	Spectroscopic Whole-Blood Indicators of End-Stage Renal Disease and the Hemodialysis Treatment. Photochemistry and Photobiology, 2007, 83, 1186-1192.	1.3	3
117	Hemodialysis monitoring in whole blood using transmission and diffuse reflection spectroscopy: a pilot study. Journal of Biomedical Optics, 2006, 11, 054003.	1.4	6
118	A Simple, Cross-linked Collagen Tissue Substitute for Corneal Implantation. , 2006, 47, 1869.		184
119	Performance Issues for Practical Multimode Interference-Based Optical Components. , 2000, , .		0
120	Theory of variable-ratio power splitters using multimode interference couplers. IEEE Photonics Technology Letters, 1999, 11, 665-667.	1.3	40
121	Analysis of generalized Mach-Zehnder interferometers for variable-ratio power splitting and optimized switching. Journal of Lightwave Technology, 1999, 17, 2542-2550.	2.7	66
122	Silica-based rib waveguides for integrated optics using multimode interference. , 1998, , .		2
123	Low-cost multimode waveguide couplers for multimode fiber-based local area networks. , 0, , .		3
124	Ultra-low power and high dynamic range variable optical attenuator array. , 0, , .		7
125	Fabrication and characterization of planar waveguide couplers for multimode fiber-based local area networks. , 0, , .		0
126	Laser-Scanning in vivo Confocal Microscopy of the Cornea: Imaging and Analysis Methods for Preclinical and Clinical Applications. , 0, , .		18

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127	Hereditary opacification of the anterior and posterior cornea: a new corneal dystrophy?. Acta Ophthalmologica, 0, 86, 0-0.	0.6	0