Ioannis Nikolaos Petropoulos

List of Publications by Year
in descending order

105 papers	4,574 citations	126708 33 h-index	128067 60 g-index
107 all docs	107 docs citations	107 times ranked	2559 citing authors

#	Article	IF	Citations
1	Corneal Confocal Microscopy Detects Early Nerve Regeneration in Diabetic Neuropathy After Simultaneous Pancreas and Kidney Transplantation. Diabetes, 2013, 62, 254-260.	0.3	220
2	Small Nerve Fiber Quantification in the Diagnosis of Diabetic Sensorimotor Polyneuropathy: Comparing Corneal Confocal Microscopy With Intraepidermal Nerve Fiber Density. Diabetes Care, 2015, 38, 1138-1144.	4.3	200
3	Rapid Automated Diagnosis of Diabetic Peripheral Neuropathy With In Vivo Corneal Confocal Microscopy. , 2014, 55, 2071.		189
4	Treatment of painful diabetic neuropathy. Therapeutic Advances in Chronic Disease, 2015, 6, 15-28.	1.1	158
5	Corneal Nerve Loss Detected With Corneal Confocal Microscopy Is Symmetrical and Related to the Severity of Diabetic Polyneuropathy. Diabetes Care, 2013, 36, 3646-3651.	4.3	150
6	Normative Values for Corneal Nerve Morphology Assessed Using Corneal Confocal Microscopy: A Multinational Normative Data Set. Diabetes Care, 2015, 38, 838-843.	4.3	150
7	Repeatability of In Vivo Corneal Confocal Microscopy to Quantify Corneal Nerve Morphology. Cornea, 2013, 32, e83-e89.	0.9	148
8	Corneal Confocal Microscopy Detects Neuropathy in Subjects With Impaired Glucose Tolerance. Diabetes Care, 2014, 37, 2643-2646.	4.3	137
9	Diagnostic utility of corneal confocal microscopy and intra-epidermal nerve fibre density in diabetic neuropathy. PLoS ONE, 2017, 12, e0180175.	1.1	123
10	Corneal Confocal Microscopy Identifies Small-Fiber Neuropathy in Subjects With Impaired Glucose Tolerance Who Develop Type 2 Diabetes. Diabetes Care, 2015, 38, 1502-1508.	4.3	120
11	An Automatic Tool for Quantification of Nerve Fibers in Corneal Confocal Microscopy Images. IEEE Transactions on Biomedical Engineering, 2017, 64, 786-794.	2.5	118
12	Small fiber neuropathy in Parkinson's disease: A clinical, pathological and corneal confocal microscopy study. Parkinsonism and Related Disorders, 2015, 21, 1454-1460.	1.1	117
13	ARA 290, a Nonerythropoietic Peptide Engineered from Erythropoietin, Improves Metabolic Control and Neuropathic Symptoms in Patients with Type 2 Diabetes. Molecular Medicine, 2014, 20, 658-666.	1.9	115
14	Early nerve fibre regeneration in individuals with type 1 diabetes after simultaneous pancreas and kidney transplantation. Diabetologia, 2019, 62, 1478-1487.	2.9	91
15	Corneal confocal microscopy detects smallâ€fiber neuropathy in Charcotâ€“Marieâ€“Tooth disease type 1A patients. Muscle and Nerve, 2012, 46, 698-704.	1.0	89
16	Vitamin D for the treatment of painful diabetic neuropathy. BMJ Open Diabetes Research and Care, 2016, 4, e000148.	1.2	88
17	An artificial intelligence-based deep learning algorithm for the diagnosis of diabetic neuropathy using corneal confocal microscopy: a development and validation study. Diabetologia, 2020, 63, 419-430.	2.9	88
18	Corneal Confocal Microscopy Detects Small Fibre Neuropathy in Patients with Upper Gastrointestinal Cancer and Nerve Regeneration in Chemotherapy Induced Peripheral Neuropathy. PLoS ONE, 2015, 10, e0139394.	1.1	86

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19	Diagnosing Diabetic Neuropathy: Something Old, Something New. Diabetes and Metabolism Journal, 2018, 42, 255.	1.8	85
20	Cibinetide Improves Corneal Nerve Fiber Abundance in Patients With Sarcoidosis-Associated Small Nerve Fiber Loss and Neuropathic Pain. , 2017, 58, BIO52.		84
21	Corneal confocal microscopy in chronic inflammatory demyelinating polyneuropathy. Annals of Clinical and Translational Neurology, 2016, 3, 88-100.	1.7	83
22	Corneal Confocal Microscopy to Assess Diabetic Neuropathy: An Eye on the Foot. Journal of Diabetes Science and Technology, 2013, 7, 1179-1189.	1.3	76
23	Corneal Confocal Microscopy Detects Neuropathy in Patients with Type 1 Diabetes without Retinopathy or Microalbuminuria. PLoS ONE, 2015, 10, e0123517.	1.1	75
24	Longitudinal assessment of neuropathy in type 1 diabetes using novel ophthalmic markers (LANDMark): Study design and baseline characteristics. Diabetes Research and Clinical Practice, 2014, 104, 248-256.	1.1	74
25	The Inferior Whorl For Detecting Diabetic Peripheral Neuropathy Using Corneal Confocal Microscopy. , 2015, 56, 2498.		73
26	Corneal confocal microscopy: ready for prime time. Australasian journal of optometry, The, 2020, 103, 265-277.	0.6	73
27	Corneal Confocal Microscopy: An Imaging Endpoint for Axonal Degeneration in Multiple Sclerosis. , 2017, 58, 3677.		68
28	Corneal Nerve Fractal Dimension: A Novel Corneal Nerve Metric for the Diagnosis of Diabetic Sensorimotor Polyneuropathy. , 2018, 59, 1113.		64
29	Use of Corneal Confocal Microscopy to Evaluate Small Nerve Fibers in Patients With Human Immunodeficiency Virus. JAMA Ophthalmology, 2017, 135, 795.	1.4	62
30	Diagnosis of Neuropathy and Risk Factors for Corneal Nerve Loss in Type 1 and Type 2 Diabetes: A Corneal Confocal Microscopy Study. Diabetes Care, 2021, 44, 150-156.	4.3	60
31	Spinal Disinhibition in Experimental and Clinical Painful Diabetic Neuropathy. Diabetes, 2017, 66, 1380-1390.	0.3	58
32	Corneal Confocal Microscopy Shows an Improvement in Small-Fiber Neuropathy in Subjects With Type 1 Diabetes on Continuous Subcutaneous Insulin Infusion Compared With Multiple Daily Injection. Diabetes Care, 2015, 38, e3-e4.	4.3	56
33	Association of corneal nerve fiber measures with cognitive function in dementia. Annals of Clinical and Translational Neurology, 2019, 6, 689-697.	1.7	56
34	Assessing corneal nerve structure and function in diabetic neuropathy. Australasian journal of optometry, The, 2012, 95, 338-347.	0.6	52
35	Hypertension Contributes to Neuropathy in Patients With Type 1 Diabetes. American Journal of Hypertension, 2019, 32, 796-803.	1.0	46
36	Early Detection of Diabetic Peripheral Neuropathy: A Focus on Small Nerve Fibres. Diagnostics, 2021, 11, 165.	1.3	46

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37	Effect of treatment with exenatide and pioglitazone or basal-bolus insulin on diabetic neuropathy: a substudy of the Qatar Study. BMJ Open Diabetes Research and Care, 2020, 8, e001420.	1.2	40
38	Corneal confocal microscopy as a tool for detecting diabetic polyneuropathy in a cohort with screen-detected type 2 diabetes: ADDITION-Denmark. Journal of Diabetes and Its Complications, 2018, 32, 1153-1159.	1.2	37
39	Age and sex affect deep learning prediction of cardiometabolic risk factors from retinal images. Scientific Reports, 2020, 10, 9432.	1.6	35
40	Prevalence of peripheral neuropathy in pre-diabetes: a systematic review. BMJ Open Diabetes Research and Care, 2021, 9, e002040.	1.2	35
41	Focused Tortuosity Definitions Based on Expert Clinical Assessment of Corneal Subbasal Nerves. , 2015, 56, 5102.		32
42	Corneal confocal microscopy: Neurologic disease biomarker in Friedreich ataxia. Annals of Neurology, 2018, 84, 893-904.	2.8	31
43	Small-fibre neuropathy in men with type 1 diabetes and erectile dysfunction: a cross-sectional study. Diabetologia, 2017, 60, 1094-1101.	2.9	29
44	An update on the diagnosis and treatment of diabetic somatic and autonomic neuropathy. F1000Research, 2019, 8, 186.	0.8	29
45	Vitamin D deficiency is associated with painful diabetic neuropathy. Diabetes/Metabolism Research and Reviews, 2021, 37, e3361.	1.7	29
46	Corneal Confocal Microscopy: A Biomarker for Diabetic Peripheral Neuropathy. Clinical Therapeutics, 2021, 43, 1457-1475.	1.1	29
47	Prevalence and management of diabetic neuropathy in secondary care in Qatar. Diabetes/Metabolism Research and Reviews, 2020, 36, e3286.	1.7	26
48	Corneal Confocal Microscopy Detects Corneal Nerve Damage in Patients Admitted With Acute Ischemic Stroke. Stroke, 2017, 48, 3012-3018.	1.0	24
49	Artificial intelligence utilising corneal confocal microscopy for the diagnosis of peripheral neuropathy in diabetes mellitus and prediabetes. Diabetologia, 2022, 65, 457-466.	2.9	24
50	Corneal confocal microscopy detects severe small fiber neuropathy in diabetic patients with Charcot neuroarthropathy. Journal of Diabetes Investigation, 2018, 9, 1167-1172.	1.1	23
51	Corneal confocal microscopy for the diagnosis of diabetic peripheral neuropathy: A systematic review and metaâ€anâ€analysis. Journal of Diabetes Investigation, 2022, 13, 134-147.	1.1	22
52	Review of techniques useful for the assessment of sensory small fiber neuropathies: Report from an IFCN expert group. Clinical Neurophysiology, 2022, 136, 13-38.	0.7	21
53	Automated Quantification of Neuropad Improves Its Diagnostic Ability in Patients with Diabetic Neuropathy. Journal of Diabetes Research, 2015, 2015, 1-7.	1.0	20
54	Corneal Nerve and Brain Imaging in Mild Cognitive Impairment and Dementia. Journal of Alzheimer's Disease, 2020, 77, 1533-1543.	1.2	20

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55	The Utility of Corneal Nerve Fractal Dimension Analysis in Peripheral Neuropathies of Different Etiology. Translational Vision Science and Technology, 2020, 9, 43.	1.1	19
56	Peripheral neuropathy in patients with multiple sclerosis. PLoS ONE, 2018, 13, e0193270.	1.1	19
57	Corneal Confocal Microscopy detects a Reduction in Corneal Endothelial Cells and Nerve Fibres in Patients with Acute Ischemic Stroke. Scientific Reports, 2018, 8, 17333.	1.6	17
58	Explanations for less small fibre neuropathy in South Asian versus European subjects with type 2 diabetes in the UK. Diabetes/Metabolism Research and Reviews, 2018, 34, e3044.	1.7	17
59	Cornea: A Window to White Matter Changes in Stroke; Corneal Confocal Microscopy a Surrogate Marker for the Presence and Severity of White Matter Hyperintensities in Ischemic Stroke. Journal of Stroke and Cerebrovascular Diseases, 2020, 29, 104543.	0.7	17
60	Prevalence and risk factors for diabetic neuropathy and painful diabetic neuropathy in primary and secondary healthcare in Qatar. Journal of Diabetes Investigation, 2021, 12, 592-600.	1.1	17
61	Corneal Immune Cells Are Increased in Patients With Multiple Sclerosis. Translational Vision Science and Technology, 2021, 10, 19.	1.1	17
62	Small Nerve Fiber Damage and Langerhans Cells in Type 1 and Type 2 Diabetes and LADA Measured by Corneal Confocal Microscopy. , 2021, 62, 5.		17
63	Artificial Intelligenceâ€“Based Classification of Diabetic Peripheral Neuropathy From Corneal Confocal Microscopy Images. Diabetes Care, 2021, 44, e151-e153.	4.3	17
64	Corneal confocal microscopy detects small fibre neurodegeneration in Parkinson's disease using automated analysis. Scientific Reports, 2020, 10, 20147.	1.6	16
65	Corneal Confocal Microscopy Identifies Parkinson's Disease with More Rapid Motor Progression. Movement Disorders, 2021, 36, 1927-1934.	2.2	16
66	Review: Novel insights on diagnosis, cause and treatment of diabetic neuropathy: focus on painful diabetic neuropathy. Therapeutic Advances in Endocrinology and Metabolism, 2010, 1, 69-88.	1.4	15
67	No Relation Between the Severity of Corneal Nerve, Epithelial, and Keratocyte Cell Morphology With Measures of Dry Eye Disease in Type 1 Diabetes. , 2018, 59, 5525.		15
68	Corneal nerve and endothelial cell damage in patients with transient ischemic attack and minor ischemic stroke. PLoS ONE, 2019, 14, e0213319.	1.1	15
69	Corneal confocal microscopy differentiates inflammatory from diabetic neuropathy. Journal of Neuroinflammation, 2021, 18, 89.	3.1	15
70	Corneal confocal microscopy compared with quantitative sensory testing and nerve conduction for diagnosing and stratifying the severity of diabetic peripheral neuropathy. BMJ Open Diabetes Research and Care, 2020, 8, e001801.	1.2	15
71	Corneal Confocal Microscopy to Image Small Nerve Fiber Degeneration: Ophthalmology Meets Neurology. Frontiers in Pain Research, 2021, 2, 725363.	0.9	14
72	Progressive Loss of Corneal and Retinal Nerve Fibers in Patients With Multiple Sclerosis: A 2-Year Follow-up Study. Translational Vision Science and Technology, 2020, 9, 37.	1.1	14

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73	Corneal nerve loss in children with typeÂ1 diabetes mellitus without retinopathy or microalbuminuria. Journal of Diabetes Investigation, 2020, 11, 1594-1601.	1.1	13
74	NerveCheck for the Detection of Sensory Loss and Neuropathic Pain in Diabetes. Diabetes Technology and Therapeutics, 2016, 18, 800-805.	2.4	12
75	Corneal confocal microscopy demonstrates axonal loss in different courses of multiple sclerosis. Scientific Reports, 2021, 11, 21688.	1.6	11
76	Diagnosing and managing diabetic somatic and autonomic neuropathy. Therapeutic Advances in Endocrinology and Metabolism, 2019, 10, 204201881982689.	1.4	10
77	Painful diabetic neuropathy is associated with increased nerve regeneration in patients with typeÂ2 diabetes undergoing intensive glycemic control. Journal of Diabetes Investigation, 2021, 12, 1642-1650.	1.1	10
78	The role of abnormalities of lipoproteins and HDL functionality in small fibre dysfunction in people with severe obesity. Scientific Reports, 2021, 11, 12573.	1.6	10
79	Prevalence and risk factors for diabetic peripheral neuropathy, neuropathic pain and foot ulceration in the Arabian Gulf region. Journal of Diabetes Investigation, 2022, 13, 1551-1559.	1.1	10
80	Differential effects of different vitamin D replacement strategies in patients with diabetes. Journal of Diabetes and Its Complications, 2014, 28, 66-70.	1.2	8
81	Diabetic neuropathy and painful diabetic neuropathy in the Middle East and North Africa (MENA) region: Much work needs to be done. Journal of Taibah University Medical Sciences, 2016, 11, 284-294.	0.5	8
82	Implementation of a Quality Index for Improvement of Quantification of Corneal Nerves in Corneal Confocal Microscopy Images: A Multicenter Study. Cornea, 2019, 38, 921-926.	0.9	8
83	Retinal microvascular complexity comparing monoâ€•and multifractal dimensions in relation to cardiometabolic risk factors in a Middle Eastern population. Acta Ophthalmologica, 2021, 99, e368-e377.	0.6	8
84	Association of Cerebral Ischemia With Corneal Nerve Loss and Brain Atrophy in MCI and Dementia. Frontiers in Neuroscience, 2021, 15, 690896.	1.4	8
85	Corneal Confocal Microscopy in the Diagnosis of Small Fiber Neuropathy: Faster, Easier, and More Efficient Than Skin Biopsy?. Pathophysiology, 2022, 29, 1-8.	1.0	8
86	Corneal confocal microscopy identifies greater corneal nerve damage in patients with a recurrent compared to first ischemic stroke. PLoS ONE, 2020, 15, e0231987.	1.1	7
87	Retinal vessel multifractals predict pial collateral status in patients with acute ischemic stroke. PLoS ONE, 2022, 17, e0267837.	1.1	7
88	Corneal confocal microscopy identifies a reduction in corneal keratocyte density and sub-basal nerves in children with type 1 diabetes mellitus. British Journal of Ophthalmology, 2022, 106, 1368-1372.	2.1	6
89	Insulin resistance limits corneal nerve regeneration in patients with typeâ€‰2 diabetes undergoing intensive glycemic control. Journal of Diabetes Investigation, 2021, 12, 2002-2009.	1.1	6
90	Progressive loss of corneal nerve fibers is associated with physical inactivity and glucose lowering medication associated with weight gain in type 2 diabetes. Journal of Diabetes Investigation, 2022, 13, 1703-1710.	1.1	6

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91	Smart Neuropathy Detection using Machine Intelligence: Filling the Void Between Clinical Practice and Early Diagnosis. , 2019, , .		5
92	Abnormal corneal nerve morphology and brain volume in patients with schizophrenia. Scientific Reports, 2022, 12, 1870.	1.6	5
93	Loss of corneal nerves and brain volume in mild cognitive impairment and dementia. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2022, 8, e12269.	1.8	5
94	Small Fiber Neuropathy in Patients With Latent Autoimmune Diabetes in Adults. Diabetes Care, 2015, 38, e102-e103.	4.3	4
95	Corneal confocal microscopy demonstrates minimal evidence of distal neuropathy in children with celiac disease. PLoS ONE, 2020, 15, e0238859.	1.1	4
96	Corneal Confocal Microscopy Identifies People with Type 1 Diabetes with More Rapid Corneal Nerve Fibre Loss and Progression of Neuropathy. Journal of Clinical Medicine, 2022, 11, 2249.	1.0	4
97	Corneal confocal microscopy identifies small nerve fibre damage in patients with hypertriglyceridemia. Journal of Clinical Lipidology, 2022, 16, 463-471.	0.6	4
98	Corneal nerve loss in patients with TIA and acute ischemic stroke in relation to circulating markers of inflammation and vascular integrity. Scientific Reports, 2022, 12, 3332.	1.6	3
99	No evidence of improvement in neuropathy after renal transplantation in patients with end stage kidney disease. Journal of the Peripheral Nervous System, 2021, 26, 269-275.	1.4	2
100	Is Nerve Electrophysiology a Robust Primary Endpoint in Clinical Trials of Treatments for Diabetic Peripheral Neuropathy?. Diagnostics, 2022, 12, 731.	1.3	2
101	Corneal nerve loss as a surrogate marker for poor pial collaterals in patients with acute ischemic stroke. Scientific Reports, 2021, 11, 19718.	1.6	1
102	Altered Circulating microRNAs in Patients with Diabetic Neuropathy and Corneal Nerve Loss: A Pilot Study. Journal of Clinical Medicine, 2022, 11, 1632.	1.0	1
103	Response to Comment on Malik. Which Test for Diagnosing Early Human Diabetic Neuropathy? Diabetes 2014;63:2206â€“2208. Diabetes, 2015, 64, e2-e3.	0.3	0
104	Abstract WP94: Association of Corneal and Retinal Nerves With Cerebral Small Vessel Disease in Patients With Acute Ischemic Stroke. Stroke, 2019, 50, .	1.0	0
105	Corneal Confocal Microscopy and Brain MRI: Surrogate Markers of Neuronal Pathology in Schizophrenia. SSRN Electronic Journal, 0, , .	0.4	0