

# Peter Wostyn

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

2,141  
citations

516561

16  
h-index

243529

44  
g-index

75  
all docs

75  
docs citations

75  
times ranked

4169  
citing authors

#	ARTICLE	IF	CITATIONS
1	The odyssey of the ocular and cerebrospinal fluids during a mission to Mars: the "ocular glymphatic system" under pressure. <i>Eye</i> , 2022, 36, 686-691.	1.1	5
2	Further evidence for the presence of a glymphatic pathway in the human optic nerve. <i>Surgical and Radiologic Anatomy</i> , 2022, , 1.	0.6	1
3	Does Long-Duration Exposure to Microgravity Lead to Dysregulation of the Brain and Ocular Glymphatic Systems?. <i>Eye and Brain</i> , 2022, Volume 14, 49-58.	3.8	8
4	The effect of long-duration spaceflight on perivascular spaces within the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	6
5	Do normal-tension and high-tension glaucoma result from brain and ocular glymphatic system disturbances, respectively?. <i>Eye</i> , 2021, 35, 2905-2906.	1.1	7
6	The "ocular glymphatic clearance system" a key missing piece of the Alzheimer's disease-glaucoma puzzle found?. <i>Eye</i> , 2021, 35, 1281-1281.	1.1	4
7	Persistent Globe Flattening in Astronauts following Long-Duration Spaceflight. <i>Neuro-Ophthalmology</i> , 2021, 45, 29-35.	0.4	24
8	Peripapillary Hyper-Reflective Ovoid Mass-Like Structures in Astronauts. <i>Annals of Neurology</i> , 2021, 89, 849-849.	2.8	2
9	COVID-19 and chronic fatigue syndrome: Is the worst yet to come?. <i>Medical Hypotheses</i> , 2021, 146, 110469.	0.8	147
10	Correspondence. <i>Retina</i> , 2021, 41, e24-e26.	1.0	6
11	The glymphatic pathway in the optic nerve: did astronauts already reveal signs of its existence?. <i>Npj Microgravity</i> , 2021, 7, 14.	1.9	3
12	Re: WÅhlin etÅal.: Optic nerve length before and after spaceflight ( <i>Ophthalmology</i> . 2021;128:309-316). <i>Ophthalmology</i> , 2021, 128, e27-e28.	2.5	1
13	Are Generalized Reduced Cerebrospinal Fluid Dynamics and Optic Nerve Sheath Compartmentation Sequential Steps in the Pathogenesis of Normal-Tension Glaucoma? [Letter]. <i>Eye and Brain</i> , 2021, Volume 13, 129-130.	3.8	0
14	Anosmia as a predictor for post-COVID-19 fatigue syndrome. <i>Lancet Regional Health - Europe</i> , The, 2021, 7, 100162.	3.0	5
15	Optic nerve sheath stiffness as a predictive biomarker for optic disc edema in astronauts. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 124, 104846.	1.5	0
16	Acute use of lower body negative pressure during spaceflight does not decrease choroidal thickness. <i>Journal of Applied Physiology</i> , 2021, 131, 1390-1391.	1.2	1
17	The perivascular space of the central retinal artery as a potential major cerebrospinal fluid inflow route: implications for optic disc edema in astronauts. <i>Eye</i> , 2020, 34, 779-780.	1.1	9
18	Retinal nerve fiber layer thinning in chronic fatigue syndrome as a possible ocular biomarker of underlying glymphatic system dysfunction. <i>Medical Hypotheses</i> , 2020, 134, 109416.	0.8	1

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19	The retinal nerve fiber layer as a window to the glymphatic system. <i>Clinical Neurology and Neurosurgery</i> , 2020, 188, 105593.	0.6	1
20	Letter: Brain Physiological Response and Adaptation During Spaceflight. <i>Neurosurgery</i> , 2020, 86, E247-E249.	0.6	2
21	Is the optic nerve compartment syndrome implicated in the pathogenesis of the high-tension form of primary open-angle glaucoma?. <i>Clinical and Experimental Ophthalmology</i> , 2020, 48, 271-272.	1.3	1
22	The Possible Role of Elastic Properties of the Brain and Optic Nerve Sheath in the Development of Spaceflight-Associated Neuro-Ocular Syndrome. <i>American Journal of Neuroradiology</i> , 2020, 41, E14-E15.	1.2	10
23	Re: Stenger et al.: Focus on the optic nerve head in spaceflight-associated neuro-ocular syndrome ( <i>Ophthalmology</i> . 2019;126:1604-1606). <i>Ophthalmology</i> , 2020, 127, e40-e41.	2.5	0
24	Potential Involvement of the Ocular Glymphatic System in Optic Disc Edema in Astronauts. <i>Aerospace Medicine and Human Performance</i> , 2020, 91, 975-977.	0.2	12
25	The buffering capacity of the brain and optic nerve against spaceflight-associated neuro-ocular syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15770-15771.	3.3	9
26	"Houston, we have a problem" - "We are losing our eyesight". <i>Experimental Eye Research</i> , 2019, 186, 107725.	1.2	5
27	Intrathecal cerebrospinal fluid infusion as a potential therapeutic strategy for Alzheimer's disease. <i>Medical Hypotheses</i> , 2019, 122, 57.	0.8	0
28	Alzheimer's disease and glaucoma: Look-alike neurodegenerative diseases. <i>Alzheimer's and Dementia</i> , 2019, 15, 600-601.	0.4	7
29	The escape of retrobulbar cerebrospinal fluid in the astronaut's eye: mission impossible?. <i>Eye</i> , 2019, 33, 1519-1524.	1.1	21
30	Glaucoma as a dangerous interplay between ocular fluid and cerebrospinal fluid. <i>Medical Hypotheses</i> , 2019, 127, 97-99.	0.8	8
31	Optic Disc Swelling in Astronauts: A Manifestation of "Glymphedema". <i>Journal of Glaucoma</i> , 2019, 28, e166-e167.	0.8	1
32	Pressure and velocity in intraocular and subarachnoid space fluid chambers: an inseparable couple. <i>Eye</i> , 2019, 33, 343-346.	1.1	4
33	Impaired cerebrospinal fluid dynamics along the entire optic nerve in normal-tension glaucoma. <i>Acta Ophthalmologica</i> , 2018, 96, e562-e569.	0.6	19
34	Can cerebrospinal fluid diversion be beneficial in the treatment of chronic fatigue syndrome?. <i>Medical Hypotheses</i> , 2018, 118, 174.	0.8	1
35	Fibromyalgia as a glymphatic overload syndrome. <i>Medical Hypotheses</i> , 2018, 115, 17-18.	0.8	4
36	Dilated Prelaminar Paravascular Spaces as a Possible Mechanism for Optic Disc Edema in Astronauts. <i>Aerospace Medicine and Human Performance</i> , 2018, 89, 1089-1091.	0.2	17

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37	The First Histologic Evidence of a Paravascular Pathway Within the Optic Nerve. , 2018, 59, 1717.		10
38	Intracranial pressure and glaucoma: Is there a new therapeutic perspective on the horizon?. Medical Hypotheses, 2018, 118, 98-102.	0.8	11
39	The "Ocular Glymphatic System" An Important Missing Piece in the Puzzle of Optic Disc Edema in Astronauts?. , 2018, 59, 2090.		17
40	The putative glymphatic signature of chronic fatigue syndrome: A new view on the disease pathogenesis and therapy. Medical Hypotheses, 2018, 118, 142-145.	0.8	16
41	Letter to the Editor. Low ICP and normal tension glaucoma: optic nerve damage due to barotraumatic factors, failure of CSF dynamics, or both?. Journal of Neurosurgery, 2018, 129, 1100-1103.	0.9	0
42	Alzheimer's disease and glaucoma: can glymphatic system dysfunction underlie their comorbidity?. Acta Ophthalmologica, 2017, 95, e244-e245.	0.6	8
43	Glymphatic stasis at the site of the lamina cribrosa as a potential mechanism underlying open-angle glaucoma. Clinical and Experimental Ophthalmology, 2017, 45, 539-547.	1.3	53
44	Do repetitive <scp>V</scp>alsalva maneuvers reduce glymphatic clearance?. Annals of Neurology, 2017, 81, 322-322.	2.8	3
45	Why a One-Way Ticket to Mars May Result in a One-Way Directional Glymphatic Flow to the Eye. Journal of Neuro-Ophthalmology, 2017, 37, 462-463.	0.4	15
46	Intracranial pressure-induced optic nerve sheath response as a predictive biomarker for optic disc edema in astronauts. Biomarkers in Medicine, 2017, 11, 1003-1008.	0.6	16
47	Evidence for the existence of a communication between the eye and the brain?. Acta Neurochirurgica, 2017, 159, 1413-1414.	0.9	2
48	The two faces of the translaminar pressure difference: the biomechanical one and the biochemical one. Australasian journal of optometry, The, 2017, 100, 102-103.	0.6	2
49	Optic Nerve Sheath Distention as a Protective Mechanism Against the Visual Impairment and Intracranial Pressure Syndrome in Astronauts. , 2017, 58, 4601.		19
50	The Glymphatic Hypothesis of Glaucoma: A Unifying Concept Incorporating Vascular, Biomechanical, and Biochemical Aspects of the Disease. BioMed Research International, 2017, 2017, 1-7.	0.9	1,089
51	The Glymphatic System: A New Player in Ocular Diseases?. , 2016, 57, 5426.		42
52	A General Decline in Cerebrospinal Fluid Flow. Journal of Neuro-Ophthalmology, 2016, 36, 227-228.	0.4	0
53	A general decline in cerebrospinal fluid flow and optic nerve compartmentation: are these sequential steps leading to toxicity in normal-tension glaucoma?. Acta Ophthalmologica, 2016, 94, e242-3.	0.6	2
54	Fast circulation of cerebrospinal fluid: an alternative perspective on the protective role of high intracranial pressure in ocular hypertension. Australasian journal of optometry, The, 2016, 99, 213-218.	0.6	13

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55	Age-related macular degeneration, glaucoma and Alzheimer's disease: amyloidogenic diseases with the same glymphatic background?. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 4299-4301.	2.4	25
56	Dilated Virchow-Robin spaces in primary open-angle glaucoma: a biomarker of glymphatic waste clearance dysfunction?. <i>Acta Radiologica Open</i> , 2016, 5, 205846011665363.	0.3	2
57	A new glaucoma hypothesis: a role of glymphatic system dysfunction. <i>Fluids and Barriers of the CNS</i> , 2015, 12, 16.	2.4	93
58	Glaucoma and the Role of Cerebrospinal Fluid Dynamics. , 2015, 56, 6630.		15
59	Intracranial pressure fluctuations: a potential risk factor for glaucoma?. <i>Acta Ophthalmologica</i> , 2015, 93, e83-e84.	0.6	8
60	A new look at glaucoma. <i>Journal of Ophthalmic and Vision Research</i> , 2015, 10, 502.	0.7	2
61	Glaucoma Considered as an Imbalance Between Production and Clearance of Neurotoxins. , 2014, 55, 5351.		23
62	The role of low intracranial pressure in the development of glaucoma in patients with Alzheimer's disease. <i>Progress in Retinal and Eye Research</i> , 2014, 39, 107-110.	7.3	8
63	Senescent Changes in Cerebrospinal Fluid Circulatory Physiology and Their Role in the Pathogenesis of Normal-tension Glaucoma. <i>American Journal of Ophthalmology</i> , 2013, 156, 5-14.e2.	1.7	52
64	Genes Involved in Cerebrospinal Fluid Production as Candidate Genes for Late-Onset Alzheimer's Disease: A Hypothesis. <i>Journal of Neurogenetics</i> , 2011, 25, 195-200.	0.6	13
65	Are intracranial pressure fluctuations important in glaucoma?. <i>Medical Hypotheses</i> , 2011, 77, 598-600.	0.8	29
66	Increased Cerebrospinal Fluid Production as a Possible Mechanism Underlying Caffeine's Protective Effect against Alzheimer's Disease. <i>International Journal of Alzheimer's Disease</i> , 2011, 2011, 1-6.	1.1	25
67	Choroidal Proteins Involved in Cerebrospinal Fluid Production may be Potential Drug Targets for Alzheimer's Disease Therapy. <i>Perspectives in Medicinal Chemistry</i> , 2011, 5, PMC.S6509.	4.6	9
68	High Occurrence Rate of Glaucoma Among Patients With Normal Pressure Hydrocephalus. <i>Journal of Glaucoma</i> , 2010, 19, 225-226.	0.8	14
69	Alzheimer's disease: Cerebral glaucoma?. <i>Medical Hypotheses</i> , 2010, 74, 973-977.	0.8	47
70	The Valsalva Maneuver and Alzheimers Disease: Is there a link?. <i>Current Alzheimer Research</i> , 2009, 6, 59-68.	0.7	16
71	More advanced Alzheimer's disease may be associated with a decrease in cerebrospinal fluid pressure. <i>Cerebrospinal Fluid Research</i> , 2009, 6, 14.	0.5	21
72	Alzheimer's disease-related changes in diseases characterized by elevation of intracranial or intraocular pressure. <i>Clinical Neurology and Neurosurgery</i> , 2008, 110, 101-109.	0.6	51

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73	An abnormal high trans-lamina cribrosa pressure difference: A missing link between Alzheimer's disease and glaucoma?. Clinical Neurology and Neurosurgery, 2008, 110, 753-754.	0.6	15
74	Is extensive use of the Valsalva maneuver associated with an increased risk for Alzheimer's disease?. Medical Hypotheses, 2006, 66, 445-446.	0.8	1
75	Can meditation-based approaches improve the cleansing power of the glymphatic system?. , 0 , 110-117.		2