Peter Wostyn

List of Publications by Year
in descending order

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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 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
2	COVID-19 and chronic fatigue syndrome: Is the worst yet to come?. Medical Hypotheses, 2021, 146, 110469.	0.8	147
3	A new glaucoma hypothesis: a role of glymphatic system dysfunction. Fluids and Barriers of the CNS, 2015, 12, 16.	2.4	93
4	Glymphatic stasis at the site of the lamina cribrosa as a potential mechanism underlying openâ€angle glaucoma. Clinical and Experimental Ophthalmology, 2017, 45, 539-547.	1.3	53
5	Senescent Changes in Cerebrospinal Fluid Circulatory Physiology and Their Role in the Pathogenesis of Normal-tension Glaucoma. American Journal of Ophthalmology, 2013, 156, 5-14.e2.	1.7	52
6	Alzheimer's disease-related changes in diseases characterized by elevation of intracranial or intraocular pressure. Clinical Neurology and Neurosurgery, 2008, 110, 101-109.	0.6	51
7	Alzheimerâ€™s disease: Cerebral glaucoma?. Medical Hypotheses, 2010, 74, 973-977.	0.8	47
8	The Glymphatic System: A New Player in Ocular Diseases?. , 2016, 57, 5426.		42
9	Are intracranial pressure fluctuations important in glaucoma?. Medical Hypotheses, 2011, 77, 598-600.	0.8	29
10	Increased Cerebrospinal Fluid Production as a Possible Mechanism Underlying Caffeine's Protective Effect against Alzheimer's Disease. International Journal of Alzheimer's Disease, 2011, 2011, 1-6.	1.1	25
11	Age-related macular degeneration, glaucoma and Alzheimerâ€™s disease: amyloidogenic diseases with the same glymphatic background?. Cellular and Molecular Life Sciences, 2016, 73, 4299-4301.	2.4	25
12	Persistent Globe Flattening in Astronauts following Long-Duration Spaceflight. Neuro-Ophthalmology, 2021, 45, 29-35.	0.4	24
13	Glaucoma Considered as an Imbalance Between Production and Clearance of Neurotoxins. , 2014, 55, 5351.		23
14	More advanced Alzheimer's disease may be associated with a decrease in cerebrospinal fluid pressure. Cerebrospinal Fluid Research, 2009, 6, 14.	0.5	21
15	The escape of retrobulbar cerebrospinal fluid in the astronautâ€™s eye: mission impossible?. Eye, 2019, 33, 1519-1524.	1.1	21
16	Optic Nerve Sheath Distention as a Protective Mechanism Against the Visual Impairment and Intracranial Pressure Syndrome in Astronauts. , 2017, 58, 4601.		19
17	Impaired cerebrospinal fluid dynamics along the entire optic nerve in normalâ€tension glaucoma. Acta Ophthalmologica, 2018, 96, e562-e569.	0.6	19
18	Dilated Prelaminar Paravascular Spaces as a Possible Mechanism for Optic Disc Edema in Astronauts. Aerospace Medicine and Human Performance, 2018, 89, 1089-1091.	0.2	17

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19	The â€œOcular Glymphatic Systemâ€: An Important Missing Piece in the Puzzle of Optic Disc Edema in Astronauts?. , 2018, 59, 2090.		17
20	The Valsalva Maneuver and Alzheimers Disease: Is there a link?. Current Alzheimer Research, 2009, 6, 59-68.	0.7	16
21	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
22	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
23	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
24	Glaucoma and the Role of Cerebrospinal Fluid Dynamics. , 2015, 56, 6630.		15
25	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
26	High Occurrence Rate of Glaucoma Among Patients With Normal Pressure Hydrocephalus. Journal of Glaucoma, 2010, 19, 225-226.	0.8	14
27	Genes Involved in Cerebrospinal Fluid Production as Candidate Genes for Late-Onset Alzheimer's Disease: A Hypothesis. Journal of Neurogenetics, 2011, 25, 195-200.	0.6	13
28	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
29	Potential Involvement of the Ocular Glymphatic System in Optic Disc Edema in Astronauts. Aerospace Medicine and Human Performance, 2020, 91, 975-977.	0.2	12
30	Intracranial pressure and glaucoma: Is there a new therapeutic perspective on the horizon?. Medical Hypotheses, 2018, 118, 98-102.	0.8	11
31	The First Histologic Evidence of a Paravascular Pathway Within the Optic Nerve. , 2018, 59, 1717.		10
32	The Possible Role of Elastic Properties of the Brain and Optic Nerve Sheath in the Development of Spaceflight-Associated Neuro-Ocular Syndrome. American Journal of Neuroradiology, 2020, 41, E14-E15.	1.2	10
33	Choroidal Proteins Involved in Cerebrospinal Fluid Production may be Potential Drug Targets for Alzheimer's Disease Therapy. Perspectives in Medicinal Chemistry, 2011, 5, PMC.S6509.	4.6	9
34	The buffering capacity of the brain and optic nerve against spaceflight-associated neuro-ocular syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15770-15771.	3.3	9
35	The perivascular space of the central retinal artery as a potential major cerebrospinal fluid inflow route: implications for optic disc edema in astronauts. Eye, 2020, 34, 779-780.	1.1	9
36	The role of low intracranial pressure in the development of glaucoma in patients with Alzheimer's disease. Progress in Retinal and Eye Research, 2014, 39, 107-110.	7.3	8

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37	Intracranial pressure fluctuations: a potential risk factor for glaucoma?. Acta Ophthalmologica, 2015, 93, e83-e84.	0.6	8
38	Alzheimer's disease and glaucoma: can glymphatic system dysfunction underlie their comorbidity?. Acta Ophthalmologica, 2017, 95, e244-e245.	0.6	8
39	Glaucoma as a dangerous interplay between ocular fluid and cerebrospinal fluid. Medical Hypotheses, 2019, 127, 97-99.	0.8	8
40	Does Long-Duration Exposure to Microgravity Lead to Dysregulation of the Brain and Ocular Glymphatic Systems?. Eye and Brain, 2022, Volume 14, 49-58.	3.8	8
41	Alzheimer's disease and glaucoma: Lookâ€alike neurodegenerative diseases. Alzheimer's and Dementia, 2019, 15, 600-601.	0.4	7
42	Do normal-tension and high-tension glaucoma result from brain and ocular glymphatic system disturbances, respectively?. Eye, 2021, 35, 2905-2906.	1.1	7
43	Correspondence. Retina, 2021, 41, e24-e26.	1.0	6
44	The effect of long-duration spaceflight on perivascular spaces within the brain. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	6
45	â€œHouston, we have a problemâ€• â€œWe are losing our eyesightâ€• Experimental Eye Research, 2019, 186, 107725.	1.2	5
46	Anosmia as a predictor for post-COVID-19 fatigue syndrome. Lancet Regional Health - Europe, The, 2021, 7, 100162.	3.0	5
47	The odyssey of the ocular and cerebrospinal fluids during a mission to Mars: the â€œocular glymphatic systemâ€•under pressure. Eye, 2022, 36, 686-691.	1.1	5
48	Fibromyalgia as a glymphatic overload syndrome. Medical Hypotheses, 2018, 115, 17-18.	0.8	4
49	Pressure and velocity in intraocular and subarachnoid space fluid chambers: an inseparable couple. Eye, 2019, 33, 343-346.	1.1	4
50	The â€œocular glymphatic clearance systemâ€• a key missing piece of the Alzheimerâ€™s disease-glaucoma puzzle found?. Eye, 2021, 35, 1281-1281.	1.1	4
51	Do repetitive <scp>V</scp>alsalva maneuvers reduce glymphatic clearance?. Annals of Neurology, 2017, 81, 322-322.	2.8	3
52	The glymphatic pathway in the optic nerve: did astronauts already reveal signs of its existence?. Npj Microgravity, 2021, 7, 14.	1.9	3
53	A general decline in cerebrospinal fluid flow and optic nerve compartmentation: are these sequential steps leading to toxicity in normalâ€tension glaucoma?. Acta Ophthalmologica, 2016, 94, e242-3.	0.6	2
54	Dilated Virchow-Robin spaces in primary open-angle glaucoma: a biomarker of glymphatic waste clearance dysfunction?. Acta Radiologica Open, 2016, 5, 205846011665363.	0.3	2

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55	Evidence for the existence of a communication between the eye and the brain?. Acta Neurochirurgica, 2017, 159, 1413-1414.	0.9	2
56	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
57	Letter: Brain Physiological Response and Adaptation During Spaceflight. Neurosurgery, 2020, 86, E247-E249.	0.6	2
58	Peripapillary Hyperâ€Reflective Ovoid Massâ€Like Structures in Astronauts. Annals of Neurology, 2021, 89, 849-849.	2.8	2
59	A new look at glaucoma. Journal of Ophthalmic and Vision Research, 2015, 10, 502.	0.7	2
60	Can meditation-based approaches improve the cleansing power of the glymphatic system?. , 0, , 110-117.		2
61	Is extensive use of the Valsalva maneuver associated with an increased risk for Alzheimerâ€™s disease?. Medical Hypotheses, 2006, 66, 445-446.	0.8	1
62	Can cerebrospinal fluid diversion be beneficial in the treatment of chronic fatigue syndrome?. Medical Hypotheses, 2018, 118, 174.	0.8	1
63	Optic Disc Swelling in Astronauts: A Manifestation of â€œGlymphedemaâ€?. Journal of Glaucoma, 2019, 28, e166-e167.	0.8	1
64	Retinal nerve fiber layer thinning in chronic fatigue syndrome as a possible ocular biomarker of underlying glymphatic system dysfunction. Medical Hypotheses, 2020, 134, 109416.	0.8	1
65	The retinal nerve fiber layer as a window to the glymphatic system. Clinical Neurology and Neurosurgery, 2020, 188, 105593.	0.6	1
66	Is the optic nerve compartment syndrome implicated in the pathogenesis of the highâ€tension form of primary openâ€angle glaucoma?. Clinical and Experimental Ophthalmology, 2020, 48, 271-272.	1.3	1
67	Re: WÃ¥hlin etÂal.: Optic nerve length before and after spaceflight (Ophthalmology. 2021;128:309â€“316). Ophthalmology, 2021, 128, e27-e28.	2.5	1
68	Acute use of lower body negative pressure during spaceflight does not decrease choroidal thickness. Journal of Applied Physiology, 2021, 131, 1390-1391.	1.2	1
69	Further evidence for the presence of a glymphatic pathway in the human optic nerve. Surgical and Radiologic Anatomy, 2022, , 1.	0.6	1
70	A General Decline in Cerebrospinal Fluid Flow. Journal of Neuro-Ophthalmology, 2016, 36, 227-228.	0.4	0
71	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
72	Intrathecal cerebrospinal fluid infusion as a potential therapeutic strategy for Alzheimerâ€™s disease. Medical Hypotheses, 2019, 122, 57.	0.8	0

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73	Re: Stenger etÂal.: Focus on the optic nerve head in spaceflight-associated neuro-ocular syndrome (Ophthalmology. 2019;126:1604â€“1606). Ophthalmology, 2020, 127, e40-e41.	2.5	0
74	Are Generalized Reduced Cerebrospinal Fluid Dynamics and Optic Nerve Sheath Compartmentation Sequential Steps in the Pathogenesis of Normal-Tension Glaucoma? [Letter]. Eye and Brain, 2021, Volume 13, 129-130.	3.8	0
75	Optic nerve sheath stiffness as a predictive biomarker for optic disc edema in astronauts. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 124, 104846.	1.5	0