

Oxana Semyachkina-Glushkovskaya

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/839134/publications.pdf>

Version: 2024-02-01

96
papers

924
citations

471509

17
h-index

552781

26
g-index

99
all docs

99
docs citations

99
times ranked

649
citing authors

#	ARTICLE	IF	CITATIONS
1	Pilot study of transcranial photobiomodulation of lymphatic clearance of beta-amyloid from the mouse brain: breakthrough strategies for non-pharmacologic therapy of Alzheimer's disease. <i>Biomedical Optics Express</i> , 2019, 10, 4003.	2.9	56
2	Photodynamic opening of blood-brain barrier. <i>Biomedical Optics Express</i> , 2017, 8, 5040.	2.9	49
3	Gliotransmitters and cytokines in the control of blood-brain barrier permeability. <i>Reviews in the Neurosciences</i> , 2018, 29, 567-591.	2.9	45
4	Photobiomodulation of lymphatic drainage and clearance: perspective strategy for augmentation of meningeal lymphatic functions. <i>Biomedical Optics Express</i> , 2020, 11, 725.	2.9	44
5	Application of optical coherence tomography for in vivo monitoring of the meningeal lymphatic vessels during opening of blood-brain barrier: mechanisms of brain clearing. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	43
6	Photodynamic opening of the blood-brain barrier and pathways of brain clearing. <i>Journal of Biophotonics</i> , 2018, 11, e201700287.	2.3	42
7	Optical properties of brain tissues at the different stages of glioma development in rats: pilot study. <i>Biomedical Optics Express</i> , 2019, 10, 5182.	2.9	42
8	Sleep as a Novel Biomarker and a Promising Therapeutic Target for Cerebral Small Vessel Disease: A Review Focusing on Alzheimer's Disease and the Blood-Brain Barrier. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6293.	4.1	38
9	Blood-Brain Barrier, Lymphatic Clearance, and Recovery: Ariadne's Thread in Labyrinths of Hypotheses. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3818.	4.1	34
10	Photodynamic opening of the blood-brain barrier to high weight molecules and liposomes through an optical clearing skull window. <i>Biomedical Optics Express</i> , 2018, 9, 4850.	2.9	34
11	Night Photostimulation of Clearance of Beta-Amyloid from Mouse Brain: New Strategies in Preventing Alzheimer's Disease. <i>Cells</i> , 2021, 10, 3289.	4.1	29
12	Histogram analysis of laser speckle contrast image for cerebral blood flow monitoring. <i>Frontiers of Optoelectronics</i> , 2015, 8, 187-194.	3.7	28
13	Photostimulation of cerebral and peripheral lymphatic functions. <i>Translational Biophotonics</i> , 2020, 2, e201900036.	2.7	28
14	Brain Mechanisms of COVID-19-Sleep Disorders. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6917.	4.1	26
15	In vivo monitoring blood-brain barrier permeability using spectral imaging through optical clearing skull window. <i>Journal of Biophotonics</i> , 2019, 12, e201800330.	2.3	20
16	Photomodulation of lymphatic delivery of liposomes to the brain bypassing the blood-brain barrier: new perspectives for glioma therapy. <i>Nanophotonics</i> , 2021, 10, 3215-3227.	6.0	20
17	Multiresolution analysis of pathological changes in cerebral venous dynamics in newborn mice with intracranial hemorrhage: adrenorelated vasorelaxation. <i>Physiological Measurement</i> , 2014, 35, 1983-1999.	2.1	19
18	Extended detrended fluctuation analysis of electroencephalograms signals during sleep and the opening of the blood-brain barrier. <i>Chaos</i> , 2020, 30, 073138.	2.5	19

#	ARTICLE	IF	CITATIONS
19	THE EXPERIMENTAL STUDY OF STRESS-RELATED PATHOLOGICAL CHANGES IN CEREBRAL VENOUS BLOOD FLOW IN NEWBORN RATS ASSESSED BY DOCT. <i>Journal of Innovative Optical Health Sciences</i> , 2013, 06, 1350023.	1.0	17
20	Increases in Microvascular Perfusion and Tissue Oxygenation via Vasodilatation After Anodal Transcranial Direct Current Stimulation in the Healthy and Traumatized Mouse Brain. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1072, 27-31.	1.6	17
21	Phenomenon of music-induced opening of the blood-brain barrier in healthy mice. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20202337.	2.6	17
22	Transcranial Photobiomodulation of Clearance of Beta-Amyloid from the Mouse Brain: Effects on the Meningeal Lymphatic Drainage and Blood Oxygen Saturation of the Brain. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1269, 57-61.	1.6	16
23	Modified wavelet analysis of ECoG-pattern as promising tool for detection of the blood-brain barrier leakage. <i>Scientific Reports</i> , 2021, 11, 18505.	3.3	16
24	Optical monitoring of stress-related changes in the brain tissues and vessels associated with hemorrhagic stroke in newborn rats. <i>Biomedical Optics Express</i> , 2015, 6, 4088.	2.9	15
25	Photostimulation of Extravasation of Beta-Amyloid through the Model of Blood-Brain Barrier. <i>Electronics (Switzerland)</i> , 2020, 9, 1056.	3.1	15
26	Age differences in photodynamic therapy-mediated opening of the blood-brain barrier through the optical clearing skull window in mice. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 625-633.	2.1	13
27	Biophotonic Strategies of Measurement and Stimulation of the Cranial and the Extracranial Lymphatic Drainage Function. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-13.	2.9	13
28	Extended detrended fluctuation analysis: effects of nonstationarity and application to sleep data. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	10
29	Blood-brain barrier permeability changes: nonlinear analysis of ECoG based on wavelet and machine learning approaches. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	10
30	Laser speckle-imaging of blood microcirculation in the brain cortex of laboratory rats in stress. <i>Quantum Electronics</i> , 2012, 42, 489-494.	1.0	9
31	WAVELET-BASED ANALYSIS OF CEREBROVASCULAR DYNAMICS IN NEWBORN RATS WITH INTRACRANIAL HEMORRHAGES. <i>Journal of Innovative Optical Health Sciences</i> , 2014, 07, 1350055.	1.0	9
32	Silent Vascular Catastrophes in the Brain in Term Newborns: Strategies for Optical Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 88-101.	2.9	9
33	Intravital molecular tagging velocimetry of cerebral blood flow using Evans Blue. <i>Journal of Biophotonics</i> , 2018, 11, e201700343.	2.3	8
34	Photodynamic Opening of the Blood-brain Barrier Using Different Photosensitizers in Mice. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 33.	2.5	8
35	Enhanced multiresolution wavelet analysis of complex dynamics in nonlinear systems. <i>Chaos</i> , 2021, 31, 043110.	2.5	8
36	Hidden stage of intracranial hemorrhage in newborn rats studied with laser speckle contrast imaging and wavelets. <i>Journal of Innovative Optical Health Sciences</i> , 2015, 08, 1550041.	1.0	7

#	ARTICLE	IF	CITATIONS
37	Off-axis holographic laser speckle contrast imaging of blood vessels in tissues. Journal of Biomedical Optics, 2017, 22, 091514.	2.6	7
38	The Stress and Vascular Catastrophes in Newborn Rats: Mechanisms Preceding and Accompanying the Brain Hemorrhages. Frontiers in Physiology, 2016, 7, 210.	2.8	6
39	Effects of Sleep Deprivation on the Brain Electrical Activity in Mice. Applied Sciences (Switzerland), 2021, 11, 1182.	2.5	6
40	Changes in bloodâ€“brain barrier permeability characterized from electroencephalograms with a combined wavelet and fluctuation analysis. European Physical Journal Plus, 2021, 136, 1.	2.6	6
41	Effect of Age and Sex on Blood Pressure, Development of Renal Hypertension, and Concentration of Nitric Oxide in the Blood of Albino Rats. Bulletin of Experimental Biology and Medicine, 2010, 149, 1-3.	0.8	5
42	Laser speckle contrast imaging of cerebral blood flow of newborn mice at optical clearing. , 2017, , .		5
43	Characterizing scaling properties of complex signals with missed data segments using the multifractal analysis. Chaos, 2018, 28, 013124.	2.5	5
44	Optical in vivo and ex vivo imaging of glioma cells migration via the cerebral vessels: Prospective clinical application of the beta2-adrenoreceptors blockade for glioma treatment. Journal of Innovative Optical Health Sciences, 2018, 11, 1850025.	1.0	5
45	Photoinduced Enhancement of Evans Blue Dye Fluorescence in Water Solution of Albumin. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2019, 126, 554-559.	0.6	4
46	Multispectral detection of cutaneous lesions using spectroscopy and microscopy approaches. , 2018, , .		4
47	Laser speckle contrast imaging of cerebral autoregulation in rats at a macro- and microcirculation level. Quantum Electronics, 2016, 46, 496-501.	1.0	3
48	Anodal Transcranial Direct Current Stimulation Improves Impaired Cerebrovascular Reactivity in Traumatized Mouse Brain. Advances in Experimental Medicine and Biology, 2020, 1232, 47-53.	1.6	3
49	Reconstruction of Pulse Wave and Respiration From Wrist Accelerometer During Sleep. IEEE Transactions on Biomedical Engineering, 2022, 69, 830-839.	4.2	3
50	A Novel Method to Stimulate Lymphatic Clearance of Beta-Amyloid from Mouse Brain Using Noninvasive Music-Induced Opening of the Bloodâ€“Brain Barrier with EEG Markers. Applied Sciences (Switzerland), 2021, 11, 10287.	2.5	3
51	The assessment of pathological changes in cerebral blood flow in hypertensive rats with stress-induced intracranial hemorrhage using Doppler OCT: Particularities of arterial and venous alterations/Die Beurteilung von pathologischen VerÄnderungen der Hirndurchblutung bei hypertensiven Ratten mit Stress-induzierten intrakraniellen Blutungen mittels Doppler-OCT: Besonderheiten von arteriellen und venösen VerÄnderungen. Photonics & Lasers in Medicine, 2013, 2, , .	0.2	2
52	Changes in the cerebral blood flow in newborn rats assessed by LSCI and DOCT before and after the hemorrhagic stroke. Proceedings of SPIE, 2015, , .	0.8	2
53	Photodynamic diagnostics of early gastric cancer: Complexity measures of gastric microcirculation and new model of metastatic adenocarcinoma of rat stomach. Journal of Innovative Optical Health Sciences, 2019, 12, 1950007.	1.0	2
54	Multifractal spectrum of physiological signals: a mechanism-related approach. Proceedings of SPIE, 2017, , .	0.8	2

#	ARTICLE	IF	CITATIONS
55	Lymphatic clearance from the blood after subarachnoid hemorrhages. , 2019, , .		2
56	Sex-specific peculiarities of cholinergic regulation of the cardiovascular system in normal and hypertensive rats. Bulletin of Experimental Biology and Medicine, 2008, 146, 29-32.	0.8	1
57	Mechanisms for Vascular Effects of Androgens in Normotensive and Hypertensive Rats. Bulletin of Experimental Biology and Medicine, 2012, 153, 190-193.	0.8	1
58	Cerebral venous dynamics in newborn mice with intracranial hemorrhage studied using wavelets. , 2015, , .		1
59	Synchronization of cerebral and peripheral blood flow at the latent stage of stroke. International Journal of Modern Physics C, 2020, 31, 2050030.	1.7	1
60	Fluorescence spectroscopy and confocal fluorescence microscopy of colon benign and malignant lesions: comparative study. , 2020, , .		1
61	Analysis of cerebral vessels dynamics using experimental data with missed segments. , 2018, , .		1
62	Optical UV-VIS-NIR spectroscopy of benign, dysplastic and malignant cutaneous lesions ex vivo. , 2018, , .		1
63	Photodynamic diagnostics for stomach cancer detection in stress modeled lesions in vivo. , 2019, , .		1
64	The Study of Lymphatic Drainage Function of the Brain After Opening the Blood-Brain Barrier and During Drugged Sleep. Izvestiya of Saratov University New Series Series: Chemistry Biology Ecology, 2020, 20, 339-351.	0.1	1
65	Monitoring of the microhemodynamic in an aggressive clinical behavior of cerebral hemorrhage using dynamic light scattering techniques. , 2012, , .		0
66	Vascular and Cardiac Effects of Stress in Albino Rats of Different Sex and Age Groups. Bulletin of Experimental Biology and Medicine, 2012, 153, 9-12.	0.8	0
67	Wavelet-based filtering of OCT-data: application to study cerebral arteries. Proceedings of SPIE, 2013, , .	0.8	0
68	Optical imaging of intracranial hemorrhages in newborns: modern strategies in diagnostics and direction for future research. , 2014, , .		0
69	Comparison of cerebral microcirculation of alloxan diabetes and healthy mice using laser speckle contrast imaging. Proceedings of SPIE, 2015, , .	0.8	0
70	Multifractal analysis of macro- and microcerebral circulation in rats. Proceedings of SPIE, 2016, , .	0.8	0
71	The sex differences in nature of vascular endothelial stress: nitregeric mechanisms. , 2016, , .		0
72	Physico-chemical and biochemical approaches to assessing the development of precancerous pathologies of the gastrointestinal tract during their modeling in mice with complex effects of stress factors of different nature. Proceedings of SPIE, 2016, , .	0.8	0

#	ARTICLE	IF	CITATIONS
73	Cerebral venous circulatory disturbance as an informative prognostic marker for neonatal hemorrhagic stroke. Proceedings of SPIE, 2016, , .	0.8	0
74	Recognition of short-term changes in physiological signals with the wavelet-based multifractal formalism. Proceedings of SPIE, 2016, , .	0.8	0
75	Synchronous fluorescence spectroscopy of colon neoplasia. , 2017, , .		0
76	Science is the highest pilotage of intuition at the junction of art and logic: dedicated to the memory of Doctor of Biological Sciences, Professor Anischenko Tatiana Grigorievna. Izvestiya of Saratov University New Series Series: Chemistry Biology Ecology, 2021, 21, 235-240.	0.1	0
77	Photodynamic diagnostics of stress-induced gastrointestinal neoplasia in laboratory animals using 5-aminolevulinic acid and Al-phthalocyanine. , 2018, , .		0
78	Characterization of vascular dynamics based on experimental recordings with extreme data loss. , 2018, , .		0
79	The interaction between the meningeal lymphatics and blood-brain barrier. , 2018, , .		0
80	Optical coherent tomography and fluorescent microscopy for the study of meningeal lymphatic systems. , 2018, , .		0
81	The lymphatic mechanisms of brain cleaning: application of optical coherence tomography and fluorescence microscopy. , 2018, , .		0
82	Stomach and intestine neoplasia fluorescence detection using 5-ALA/PpIX photosensitization. , 2019, , .		0
83	Detection of stress-induced gastrointestinal lesions using Al-phythalocyanines in experimental animals. , 2019, , .		0
84	Novel promising stroke therapy: new pharmacological and laser stimulation of brain clearance. , 2019, , .		0
85	Entrainment between the dynamics of cerebral and peripheral blood flow characterized by wavelet coherence. , 2019, , .		0
86	Optical monitoring of the meningeal lymphatic clearance after opening of blood-brain barrier. , 2019, , .		0
87	Lymphatic or glymphatic systems: opposite conceptions in fundamental understanding of the brain clearing. , 2019, , .		0
88	5-ALA/PpIX fluorescent diagnostics of stressed-induced small and large intestine neoplasia in laboratorial rats in vivo. , 2019, , .		0
89	The role of the meningeal lymphatic in the brain clearing. , 2019, , .		0
90	Adjustment of the cerebral and peripheral blood flow dynamics at the pre-stroke stage. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
91	Light sheet microscopy of blood vessels in mouse brain in vivo. , 2019, , .		0
92	Diagnostic of gastric pre-cancer with complexity analysis. , 2019, , .		0
93	ALA/PpIX photodiagnosis of stress-induced gastrointestinal primary tumors and metastases in experimental animals. , 2019, , .		0
94	Phenomenon of atypical vascular effects of epinephrine and an increase of photodynamic response by nitroglycerin in rats with colon adenocarcinoma: adrenergic and nitrergic mechanisms and novel applied aspects. Biomedical Optics Express, 2019, 10, 4115.	2.9	0
95	Conjugation of Zn (II) phthalocyanine with polymeric brushes for improved photodiagnostics and photodynamic therapy of gastric tumours. , 2020, , .		0
96	GB20 Pharmacopuncture As a Potential Method for Brain Drug Delivery via the Perivascular Spaces. JAMS Journal of Acupuncture and Meridian Studies, 2022, 15, 43-49.	0.7	0