

Rickson C Mesquita

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

1,856
citations

304368

22
h-index

276539

41
g-index

76
all docs

76
docs citations

76
times ranked

2238
citing authors

#	ARTICLE	IF	CITATIONS
1	Modified Beer-Lambert law for blood flow. <i>Biomedical Optics Express</i> , 2014, 5, 4053.	1.5	186
2	Endothelial HIF-2 α regulates murine pathological angiogenesis and revascularization processes. <i>Journal of Clinical Investigation</i> , 2012, 122, 1427-1443.	3.9	163
3	Direct measurement of tissue blood flow and metabolism with diffuse optics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4390-4406.	1.6	151
4	Resting state functional connectivity of the whole head with near-infrared spectroscopy. <i>Biomedical Optics Express</i> , 2010, 1, 324.	1.5	150
5	Anatomical atlas-guided diffuse optical tomography of brain activation. <i>NeuroImage</i> , 2010, 49, 561-567.	2.1	125
6	Optical Bedside Monitoring of Cerebral Blood Flow in Acute Ischemic Stroke Patients During Head-of-Bed Manipulation. <i>Stroke</i> , 2014, 45, 1269-1274.	1.0	78
7	Validation of diffuse correlation spectroscopic measurement of cerebral blood flow using phase-encoded velocity mapping magnetic resonance imaging. <i>Journal of Biomedical Optics</i> , 2012, 17, 037007.	1.4	77
8	Pressure modulation algorithm to separate cerebral hemodynamic signals from extracerebral artifacts. <i>Neurophotonics</i> , 2015, 2, 035004.	1.7	70
9	O ₂ Regulates Skeletal Muscle Progenitor Differentiation through Phosphatidylinositol 3-Kinase/AKT Signaling. <i>Molecular and Cellular Biology</i> , 2012, 32, 36-49.	1.1	61
10	HIF modulation of Wnt signaling regulates skeletal myogenesis <i>in vivo</i> . <i>Development (Cambridge)</i> , 2015, 142, 2405-12.	1.2	60
11	Continuous Optical Monitoring of Cerebral Hemodynamics During Head-of-Bed Manipulation in Brain-Injured Adults. <i>Neurocritical Care</i> , 2014, 20, 443-453.	1.2	56
12	Noninvasive optical monitoring of critical closing pressure and arteriole compliance in human subjects. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2691-2705.	2.4	51
13	Influence of probe pressure on the diffuse correlation spectroscopy blood flow signal: extra-cerebral contributions. <i>Biomedical Optics Express</i> , 2013, 4, 978.	1.5	50
14	Hemodynamic and metabolic diffuse optical monitoring in a mouse model of hindlimb ischemia. <i>Biomedical Optics Express</i> , 2010, 1, 1173.	1.5	43
15	Noninvasive continuous optical monitoring of absolute cerebral blood flow in critically ill adults. <i>Neurophotonics</i> , 2018, 5, 1.	1.7	42
16	Resting state connectivity patterns with near-infrared spectroscopy data of the whole head. <i>Biomedical Optics Express</i> , 2016, 7, 2524.	1.5	39
17	Blood flow and oxygenation changes due to low-frequency repetitive transcranial magnetic stimulation of the cerebral cortex. <i>Journal of Biomedical Optics</i> , 2013, 18, 067006.	1.4	36
18	Optical Monitoring and Detection of Spinal Cord Ischemia. <i>PLoS ONE</i> , 2013, 8, e83370.	1.1	32

#	ARTICLE	IF	CITATIONS
19	Functional near-infrared spectroscopy for speech protocols: characterization of motion artifacts and guidelines for improving data analysis. <i>Neurophotonics</i> , 2020, 7, 1.	1.7	30
20	Diffuse optical characterization of an exercising patient group with peripheral artery disease. <i>Journal of Biomedical Optics</i> , 2013, 18, 057007.	1.4	27
21	Affect during incremental exercise: The role of inhibitory cognition, autonomic cardiac function, and cerebral oxygenation. <i>PLoS ONE</i> , 2017, 12, e0186926.	1.1	26
22	Transcranial Optical Monitoring of Cerebral Hemodynamics in Acute Stroke Patients during Mechanical Thrombectomy. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2019, 28, 1483-1494.	0.7	23
23	Integration of Spatial Information Increases Reproducibility in Functional Near-Infrared Spectroscopy. <i>Frontiers in Neuroscience</i> , 2020, 14, 746.	1.4	23
24	Tumor Blood Flow Differs between Mouse Strains: Consequences for Vasoresponse to Photodynamic Therapy. <i>PLoS ONE</i> , 2012, 7, e37322.	1.1	23
25	Peripheral microcirculatory alterations are associated with the severity of acute respiratory distress syndrome in COVID-19 patients admitted to intermediate respiratory and intensive care units. <i>Critical Care</i> , 2021, 25, 381.	2.5	23
26	Open Photoacoustic Cell: Applications in Plant Photosynthesis Studies. <i>Instrumentation Science and Technology</i> , 2006, 34, 33-58.	0.9	21
27	Identifying individuals using fNIRS-based cortical connectomes. <i>Biomedical Optics Express</i> , 2019, 10, 2889.	1.5	19
28	Fiber-optic Monitoring of Spinal Cord Hemodynamics in Experimental Aortic Occlusion. <i>Anesthesiology</i> , 2015, 123, 1362-1373.	1.3	18
29	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. <i>Neurophotonics</i> , 2022, 9, 013001.	1.7	17
30	Exploring neuro-vascular and neuro-metabolic coupling in rat somatosensory cortex. <i>Physics in Medicine and Biology</i> , 2009, 54, 175-185.	1.6	15
31	Effects of Systemic Physiology on Mapping Resting-State Networks Using Functional Near-Infrared Spectroscopy. <i>Frontiers in Neuroscience</i> , 2022, 16, 803297.	1.4	14
32	Changes of functional response in sensorimotor cortex of preterm and full-term infants during the first year: An fNIRS study. <i>Early Human Development</i> , 2019, 133, 23-28.	0.8	11
33	Cerebral Hemodynamics at Altitude: Effects of Hyperventilation and Acclimatization on Cerebral Blood Flow and Oxygenation. <i>Wilderness and Environmental Medicine</i> , 2015, 26, 133-141.	0.4	10
34	Drug abusers have impaired cerebral oxygenation and cognition during exercise. <i>PLoS ONE</i> , 2017, 12, e0188030.	1.1	10
35	Real-Time Non-invasive Assessment of Cerebral Hemodynamics With Diffuse Optical Spectroscopies in a Neuro Intensive Care Unit: An Observational Case Study. <i>Frontiers in Medicine</i> , 2020, 7, 147.	1.2	9
36	Cerebral Blood Flow Response During Bolus Normal Saline Infusion After Ischemic Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2019, 28, 104294.	0.7	8

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37	Accurate Image-guided (Re)Placement of NIRS Probes. Computer Methods and Programs in Biomedicine, 2021, 200, 105844.	2.6	8
38	Use of Diffuse Correlation Spectroscopy To Measure Brain Blood Flow Differences During Speaking and Nonspeaking Tasks for Fluent Speakers and Persons Who Stutter. Perspectives on Fluency and Fluency Disorders, 2011, 21, 96-106.	0.3	8
39	A method for choosing the smoothing parameter in a semi-parametric model for detecting change-points in blood flow. Journal of Applied Statistics, 2014, 41, 26-45.	0.6	7
40	Association between hemodynamic activity and motor performance in six-month-old full-term and preterm infants: a functional near-infrared spectroscopy study. Neurophotonics, 2017, 5, 1.	1.7	7
41	Perfusion Enhancement with Respiratory Impedance After Stroke (PERI-Stroke). Neurotherapeutics, 2019, 16, 1296-1303.	2.1	6
42	Blood flow response to orthostatic challenge identifies signatures of the failure of static cerebral autoregulation in patients with cerebrovascular disease. BMC Neurology, 2021, 21, 154.	0.8	4
43	Probe Pressure Modulation Algorithm Reduces Extracerebral Contamination in Optical Measurements of Cerebral Blood Flow. , 2014, , .		3
44	Post-Surgical Cerebral Autoregulation in Neonates with Congenital Heart Defects Monitored With Diffuse Correlation Spectroscopy. , 2010, , .		2
45	Differences in brain activity between fast and slow responses on psychomotor vigilance task: an fNIRS study. Brain Imaging and Behavior, 2022, 16, 1563-1574.	1.1	2
46	Photo acoustic study of plants exposed to varying light intensity growth conditions: Spectral and morphological changes. European Physical Journal Special Topics, 2005, 125, 745-748.	0.2	1
47	Thermal diffusivity and photoacoustic spectroscopy measurements in CdTe quantum dots borosilicate glasses. European Physical Journal Special Topics, 2005, 125, 273-276.	0.2	1
48	Response to Letter Regarding Article, "Optical Bedside Monitoring of Cerebral Blood Flow in Acute Ischemic Stroke Patients During Head-of-Bed Manipulation" Stroke, 2014, 45, e190.	1.0	1
49	Modified Beer-Lambert law for blood flow. , 2015, , .		1
50	Recent Advances in Optical Spectroscopic and Imaging Methods for Medicine and Biology. Journal of Spectroscopy, 2016, 2016, 1-2.	0.6	1
51	HIF modulation of Wnt signaling regulates skeletal myogenesis in vivo. Journal of Cell Science, 2015, 128, e1.1-e1.1.	1.2	1
52	Diffuse Correlation Spectroscopy for Flow Assessment & Management of Acute Ischemic Stroke. , 2012, , .		1
53	Blood Flow Response to Orthostatic Challenges in Health and Diseased Populations. , 2016, , .		1
54	Terapia Fotodinâmica: uma luz na luta contra o câncer. Physicae, 2005, 5, .	0.0	1

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55	Avaliaç�o da resposta hemodin�mica cerebral atrav�s da monitorizaç�o com a espectroscopia pr�xima ao infravermelho (NIRS) em pacientes com doenç�a ateroscler�tica da art�ria car�tida submetidos a endarterectomia. <i>Jornal Vasculuar Brasileiro</i> , 2020, 19, e20190027.	0.1	1
56	Real-Time Monitoring of Neurocritical Patients with Diffuse Optical Spectroscopies. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	1
57	Correlation of Blood Flow and Systemic Physiology in Mouse Tumor Models in Photodynamic Therapy. , 2010, , .		0
58	Cerebral Hemodynamics at Altitude Using Diffuse Correlation Spectroscopy and Transcranial Doppler. <i>Wilderness and Environmental Medicine</i> , 2012, 23, 194.	0.4	0
59	Self-Organization and Brain Function. <i>GigaScience</i> , 2016, 5, .	3.3	0
60	Topiramate impairs brain connectivity and language network a functional MRI study in epilepsy and headache. <i>Journal of the Neurological Sciences</i> , 2017, 381, 252-253.	0.3	0
61	Construction and evaluation of a non-laser optical system for photodynamic process excitation. <i>Acta Cirurgica Brasileira</i> , 2004, 19, 597-602.	0.3	0
62	Investigating neurovascular coupling in rat brain with optical imaging and physiological modeling. , 2008, , .		0
63	Diffuse Optical Measurements of Cerebral Blood Flow and Blood Oxygenation during Head Elevation in Healthy and Brain-Injured Adults. , 2010, , .		0
64	Correlation Analysis during Resting State of the Whole Head with Near-Infrared Spectroscopy. , 2010, , .		0
65	Effects of Transcranial Magnetic Stimulation on Cerebral Hemodynamics Measured by Diffuse Correlation & Optical Spectroscopies. , 2010, , .		0
66	Diffuse Optical Perfusion and Oxygenation Monitoring in a Mouse Model of Hindlimb Ischemia. , 2010, , .		0
67	Characterization of blood flow, oxygenation and metabolism under hypercapnia in swine. , 2010, , .		0
68	Hemodynamic Monitoring of Spinal Cord with Diffuse Optical & Correlation Spectroscopies. , 2012, , .		0
69	Long Term Monitoring of Cerebral Blood Flow in Subarachnoid Hemorrhage Patients Using Diffuse Correlation Spectroscopy. , 2012, , .		0
70	Characterization of the NIRS Hemodynamic Response Function with Independent Component Analysis. , 2014, , .		0
71	Analysis of Brain Networks during Resting State with Near-Infrared Spectroscopy. , 2014, , .		0
72	Avaliaç�o da atividade cortical cerebral e muscular em exerc�cios de diferentes intensidades atrav�s da t�cnica de espectroscopia no infravermelho pr�ximo (NIRS). , 0, , .		0

#	ARTICLE	IF	CITATIONS
73	Análise quantitativa da interação do conceito de força em diferentes estágios do aprendizado de física. , 0, , .		0
74	Análise da influência da navegação cerebral na resolução espacial da técnica de espectroscopia no infravermelho próximo (NIRS). , 0, , .		0
75	Upcoming Neurophotonics Status Report. Neurophotonics, 2021, 8, 040101.	1.7	0