

Rickson C Mesquita

List of Publications by Year in descending order

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75
papers

1,856
citations

304743

22
h-index

276875

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all docs

76
docs citations

76
times ranked

2238
citing authors

#	ARTICLE	IF	CITATIONS
1	Differences in brain activity between fast and slow responses on psychomotor vigilance task: an fNIRS study. <i>Brain Imaging and Behavior</i> , 2022, 16, 1563-1574.	2.1	2
2	Effects of Systemic Physiology on Mapping Resting-State Networks Using Functional Near-Infrared Spectroscopy. <i>Frontiers in Neuroscience</i> , 2022, 16, 803297.	2.8	14
3	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. <i>Neurophotonics</i> , 2022, 9, 013001.	3.3	17
4	Accurate Image-guided (Re)Placement of NIRS Probes. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 200, 105844.	4.7	8
5	Blood flow response to orthostatic challenge identifies signatures of the failure of static cerebral autoregulation in patients with cerebrovascular disease. <i>BMC Neurology</i> , 2021, 21, 154.	1.8	4
6	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.	5.8	23
7	Upcoming Neurophotonics Status Report. <i>Neurophotonics</i> , 2021, 8, 040101.	3.3	0
8	Integration of Spatial Information Increases Reproducibility in Functional Near-Infrared Spectroscopy. <i>Frontiers in Neuroscience</i> , 2020, 14, 746.	2.8	23
9	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.	2.6	9
10	Functional near-infrared spectroscopy for speech protocols: characterization of motion artifacts and guidelines for improving data analysis. <i>Neurophotonics</i> , 2020, 7, 1.	3.3	30
11	Avalia��o da resposta hemodin�mica cerebral atrav�s da monitoriza��o com a espectroscopia pr�xima ao infravermelho (NIRS) em pacientes com doen�a ateroscl�tica da art�ria car�tida submetidos a endarterectomia. <i>Jornal Vascular Brasileiro</i> , 2020, 19, e20190027.	0.5	1
12	Real-Time Monitoring of Neurocritical Patients with Diffuse Optical Spectroscopies. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	1
13	Cerebral Blood Flow Response During Bolus Normal Saline Infusion After Ischemic Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2019, 28, 104294.	1.6	8
14	Perfusion Enhancement with Respiratory Impedance After Stroke (PERI-Stroke). <i>Neurotherapeutics</i> , 2019, 16, 1296-1303.	4.4	6
15	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.	1.8	11
16	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.	1.6	23
17	Identifying individuals using fNIRS-based cortical connectomes. <i>Biomedical Optics Express</i> , 2019, 10, 2889.	2.9	19
18	Noninvasive continuous optical monitoring of absolute cerebral blood flow in critically ill adults. <i>Neurophotonics</i> , 2018, 5, 1.	3.3	42

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19	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.	4.3	51
20	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.	0.6	0
21	Drug abusers have impaired cerebral oxygenation and cognition during exercise. <i>PLoS ONE</i> , 2017, 12, e0188030.	2.5	10
22	Association between hemodynamic activity and motor performance in six-month-old full-term and preterm infants: a functional near-infrared spectroscopy study. <i>Neurophotonics</i> , 2017, 5, 1.	3.3	7
23	Affect during incremental exercise: The role of inhibitory cognition, autonomic cardiac function, and cerebral oxygenation. <i>PLoS ONE</i> , 2017, 12, e0186926.	2.5	26
24	Self-Organization and Brain Function. <i>GigaScience</i> , 2016, 5, .	6.4	0
25	Recent Advances in Optical Spectroscopic and Imaging Methods for Medicine and Biology. <i>Journal of Spectroscopy</i> , 2016, 2016, 1-2.	1.3	1
26	Resting state connectivity patterns with near-infrared spectroscopy data of the whole head. <i>Biomedical Optics Express</i> , 2016, 7, 2524.	2.9	39
27	Blood Flow Response to Orthostatic Challenges in Health and Diseased Populations. , 2016, , .		1
28	Fiber-optic Monitoring of Spinal Cord Hemodynamics in Experimental Aortic Occlusion. <i>Anesthesiology</i> , 2015, 123, 1362-1373.	2.5	18
29	Pressure modulation algorithm to separate cerebral hemodynamic signals from extracerebral artifacts. <i>Neurophotonics</i> , 2015, 2, 035004.	3.3	70
30	Modified Beer-Lambert law for blood flow. , 2015, , .		1
31	HIF modulation of Wnt signaling regulates skeletal myogenesis<i>in vivo</i>. <i>Development (Cambridge)</i> , 2015, 142, 2405-12.	2.5	60
32	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.	0.9	10
33	HIF modulation of Wnt signaling regulates skeletal myogenesis in vivo. <i>Journal of Cell Science</i> , 2015, 128, e1.1-e1.1.	2.0	1
34	Modified Beer-Lambert law for blood flow. <i>Biomedical Optics Express</i> , 2014, 5, 4053.	2.9	186
35	Response to Letter Regarding Article, “Optical Bedside Monitoring of Cerebral Blood Flow in Acute Ischemic Stroke Patients During Head-of-Bed Manipulation” <i>Stroke</i> , 2014, 45, e190.	2.0	1
36	Continuous Optical Monitoring of Cerebral Hemodynamics During Head-of-Bed Manipulation in Brain-Injured Adults. <i>Neurocritical Care</i> , 2014, 20, 443-453.	2.4	56

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37	Optical Bedside Monitoring of Cerebral Blood Flow in Acute Ischemic Stroke Patients During Head-of-Bed Manipulation. Stroke, 2014, 45, 1269-1274.	2.0	78
38	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.	1.3	7
39	Characterization of the NIRS Hemodynamic Response Function with Independent Component Analysis. , 2014, , .		0
40	Analysis of Brain Networks during Resting State with Near-Infrared Spectroscopy. , 2014, , .		0
41	Probe Pressure Modulation Algorithm Reduces Extracerebral Contamination in Optical Measurements of Cerebral Blood Flow. , 2014, , .		3
42	Influence of probe pressure on the diffuse correlation spectroscopy blood flow signal: extra-cerebral contributions. Biomedical Optics Express, 2013, 4, 978.	2.9	50
43	Diffuse optical characterization of an exercising patient group with peripheral artery disease. Journal of Biomedical Optics, 2013, 18, 057007.	2.6	27
44	Blood flow and oxygenation changes due to low-frequency repetitive transcranial magnetic stimulation of the cerebral cortex. Journal of Biomedical Optics, 2013, 18, 067006.	2.6	36
45	Optical Monitoring and Detection of Spinal Cord Ischemia. PLoS ONE, 2013, 8, e83370.	2.5	32
46	Validation of diffuse correlation spectroscopic measurement of cerebral blood flow using phase-encoded velocity mapping magnetic resonance imaging. Journal of Biomedical Optics, 2012, 17, 037007.	2.6	77
47	Cerebral Hemodynamics at Altitude Using Diffuse Correlation Spectroscopy and Transcranial Doppler. Wilderness and Environmental Medicine, 2012, 23, 194.	0.9	0
48	O ₂ Regulates Skeletal Muscle Progenitor Differentiation through Phosphatidylinositol 3-Kinase/AKT Signaling. Molecular and Cellular Biology, 2012, 32, 36-49.	2.3	61
49	Endothelial HIF-2 α regulates murine pathological angiogenesis and revascularization processes. Journal of Clinical Investigation, 2012, 122, 1427-1443.	8.2	163
50	Diffuse Correlation Spectroscopy for Flow Assessment & Management of Acute Ischemic Stroke. , 2012, , .		1
51	Tumor Blood Flow Differs between Mouse Strains: Consequences for Vasoresponse to Photodynamic Therapy. PLoS ONE, 2012, 7, e37322.	2.5	23
52	Hemodynamic Monitoring of Spinal Cord with Diffuse Optical & Correlation Spectroscopies. , 2012, , .		0
53	Long Term Monitoring of Cerebral Blood Flow in Subarachnoid Hemorrhage Patients Using Diffuse Correlation Spectroscopy. , 2012, , .		0
54	Direct measurement of tissue blood flow and metabolism with diffuse optics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 4390-4406.	3.4	151

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55	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
56	Correlation of Blood Flow and Systemic Physiology in Mouse Tumor Models in Photodynamic Therapy. , 2010, , .		0
57	Resting state functional connectivity of the whole head with near-infrared spectroscopy. Biomedical Optics Express, 2010, 1, 324.	2.9	150
58	Hemodynamic and metabolic diffuse optical monitoring in a mouse model of hindlimb ischemia. Biomedical Optics Express, 2010, 1, 1173.	2.9	43
59	Anatomical atlas-guided diffuse optical tomography of brain activation. NeuroImage, 2010, 49, 561-567.	4.2	125
60	Diffuse Optical Measurements of Cerebral Blood Flow and Blood Oxygenation during Head Elevation in Healthy and Brain-Injured Adults. , 2010, , .		0
61	Correlation Analysis during Resting State of the Whole Head with Near-Infrared Spectroscopy. , 2010, , .		0
62	Post-Surgical Cerebral Autoregulation in Neonates with Congenital Heart Defects Monitored With Diffuse Correlation Spectroscopy. , 2010, , .		2
63	Effects of Transcranial Magnetic Stimulation on Cerebral Hemodynamics Measured by Diffuse Correlation & Optical Spectroscopies. , 2010, , .		0
64	Diffuse Optical Perfusion and Oxygenation Monitoring in a Mouse Model of Hindlimb Ischemia. , 2010, , .		0
65	Characterization of blood flow, oxygenation and metabolism under hypercapnia in swine. , 2010, , .		0
66	Exploring neuro-vascular and neuro-metabolic coupling in rat somatosensory cortex. Physics in Medicine and Biology, 2009, 54, 175-185.	3.0	15
67	Investigating neurovascular coupling in rat brain with optical imaging and physiological modeling. , 2008, , .		0
68	Open Photoacoustic Cell: Applications in Plant Photosynthesis Studies. Instrumentation Science and Technology, 2006, 34, 33-58.	1.8	21
69	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
70	Thermal diffusivity and photoacoustic spectroscopy measurements in CdTe quantum dots borosilicate glasses. European Physical Journal Special Topics, 2005, 125, 273-276.	0.2	1
71	Terapia Fotodinâmica: uma luz na luta contra o câncer. Physicae, 2005, 5, .	0.0	1
72	Construction and evaluation of a non-laser optical system for photodynamic process excitation. Acta Cirurgica Brasileira, 2004, 19, 597-602.	0.7	0

#	ARTICLE	IF	CITATIONS
73	Avaliação da atividade cortical cerebral e muscular em exercícios de diferentes intensidades através da técnica de espectroscopia no infravermelho próximo (NIRS). , 0, , .		0
74	Análise quantitativa da introdução do conceito de força em diferentes estágios do aprendizado de física. , 0, , .		0
75	Análise da influência da navegação cerebral na resolução espacial da técnica de espectroscopia no infravermelho próximo (NIRS). , 0, , .		0