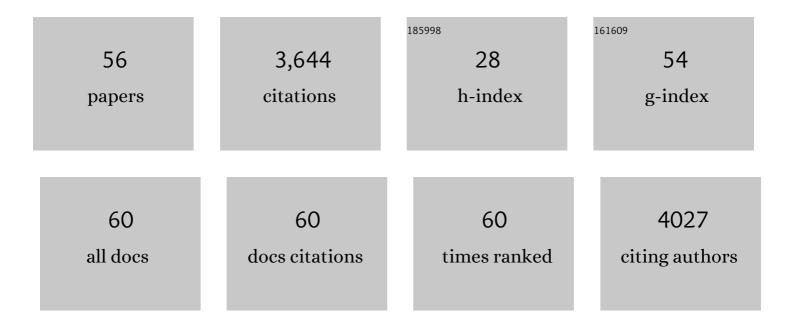
Alberto L Vazquez

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Brain Tissue Responses to Neural Implants Impact Signal Sensitivity and Intervention Strategies. ACS Chemical Neuroscience, 2015, 6, 48-67.	1.7	429
2	Nonlinear Aspects of the BOLD Response in Functional MRI. NeuroImage, 1998, 7, 108-118.	2.1	325
3	A Materials Roadmap to Functional Neural Interface Design. Advanced Functional Materials, 2018, 28, 1701269.	7.8	266
4	<i>In vivo</i> two-photon microscopy reveals immediate microglial reaction to implantation of microelectrode through extension of processes. Journal of Neural Engineering, 2012, 9, 066001.	1.8	177
5	Mechanical failure modes of chronically implanted planar silicon-based neural probes for laminar recording. Biomaterials, 2015, 37, 25-39.	5.7	176
6	Doseâ€dependent effect of isoflurane on neurovascular coupling in rat cerebral cortex. European Journal of Neuroscience, 2009, 30, 242-250.	1.2	144
7	Photoelectric artefact from optogenetics and imaging on microelectrodes and bioelectronics: new challenges and opportunities. Journal of Materials Chemistry B, 2015, 3, 4965-4978.	2.9	127
8	Multi-scale, multi-modal analysis uncovers complex relationship at the brain tissue-implant neural interface: new emphasis on the biological interface. Journal of Neural Engineering, 2018, 15, 033001.	1.8	111
9	Effects of the α ₂ â€adrenergic receptor agonist dexmedetomidine on neural, vascular and BOLD fMRI responses in the somatosensory cortex. European Journal of Neuroscience, 2013, 37, 80-95.	1.2	109
10	Estimating test-retest reliability in functional MR imaging II: Application to motor and cognitive activation studies. Magnetic Resonance in Medicine, 1997, 38, 508-517.	1.9	108
11	Accounting for nonlinear BOLD effects in fMRI: parameter estimates and a model for prediction in rapid event-related studies. NeuroImage, 2005, 25, 206-218.	2.1	106
12	Neuroadhesive L1 coating attenuates acute microglial attachment to neural electrodes as revealed by live two-photon microscopy. Biomaterials, 2017, 113, 279-292.	5.7	99
13	Dexamethasone retrodialysis attenuates microglial response to implanted probes inÂvivo. Biomaterials, 2016, 87, 157-169.	5.7	91
14	Two-photon imaging of chronically implanted neural electrodes: Sealing methods and new insights. Journal of Neuroscience Methods, 2016, 258, 46-55.	1.3	83
15	Neural and Hemodynamic Responses Elicited by Forelimb- and Photo-stimulation in Channelrhodopsin-2 Mice: Insights into the Hemodynamic Point Spread Function. Cerebral Cortex, 2014, 24, 2908-2919.	1.6	82
16	Changes in Cerebral Arterial, Tissue and Venous Oxygenation with Evoked Neural Stimulation: Implications for Hemoglobin-Based Functional Neuroimaging. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 428-439.	2.4	78
17	InÂvivo imaging of neuronal calcium during electrode implantation: Spatial and temporal mapping of damage and recovery. Biomaterials, 2018, 174, 79-94.	5.7	76
18	Inhibitory Neuron Activity Contributions to Hemodynamic Responses and Metabolic Load Examined Using an Inhibitory Optogenetic Mouse Model. Cerebral Cortex, 2018, 28, 4105-4119.	1.6	71

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19	Frequency-dependent neural activity, CBF, and BOLD fMRI to somatosensory stimuli in isoflurane-anesthetized rats. NeuroImage, 2010, 52, 224-233.	2.1	68
20	Neural and Hemodynamic Responses to Optogenetic and Sensory Stimulation in the Rat Somatosensory Cortex. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 922-932.	2.4	67
21	Calcium activation of cortical neurons by continuous electrical stimulation: Frequency dependence, temporal fidelity, and activation density. Journal of Neuroscience Research, 2019, 97, 620-638.	1.3	67
22	Câ€C Chemokine Receptor Type 5 (CCR5)â€Mediated Docking of Transferred Tregs Protects Against Early Bloodâ€Brain Barrier Disruption After Stroke. Journal of the American Heart Association, 2017, 6, .	1.6	65
23	Vascular dynamics and BOLD fMRI: CBF level effects and analysis considerations. NeuroImage, 2006, 32, 1642-1655.	2.1	56
24	Optogenetic assessment of VIP, PV, SOM and NOS inhibitory neuron activity and cerebral blood flow regulation in mouse somato-sensory cortex. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1427-1440.	2.4	56
25	Trial-by-trial relationship between neural activity, oxygen consumption, and blood flow responses. Neurolmage, 2008, 40, 442-450.	2.1	48
26	Contribution of Excitatory and Inhibitory Neuronal Activity to BOLD fMRI. Cerebral Cortex, 2021, 31, 4053-4067.	1.6	38
27	Optogenetic investigation of the variable neurovascular coupling along the interhemispheric circuits. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 627-640.	2.4	37
28	Meningeal inflammatory response and fibrous tissue remodeling around intracortical implants: An in vivo two-photon imaging study. Biomaterials, 2019, 195, 111-123.	5.7	37
29	Fast, pseudo-continuous arterial spin labeling for functional imaging using a two-coil system. Magnetic Resonance in Medicine, 2004, 51, 577-585.	1.9	33
30	Cerebral oxygen delivery and consumption during evoked neural activity. Frontiers in Neuroenergetics, 2010, 2, 11.	5.3	33
31	Macroscale variation in resting-state neuronal activity and connectivity assessed by simultaneous calcium imaging, hemodynamic imaging and electrophysiology. NeuroImage, 2018, 169, 352-362.	2.1	29
32	Mitochondria modulate programmed neuritic retraction. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 650-659.	3.3	29
33	Dynamics of oxygen delivery and consumption during evoked neural stimulation using a compartment model and CBF and tissue PO2 measurements. NeuroImage, 2008, 42, 49-59.	2.1	27
34	Evolution of the Dynamic Changes in Functional Cerebral Oxidative Metabolism from Tissue Mitochondria to Blood Oxygen. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 745-758.	2.4	27
35	Quantification of perfusion fMRI using a numerical model of arterial spin labeling that accounts for dynamic transit time effects. Magnetic Resonance in Medicine, 2005, 54, 955-964.	1.9	26
36	Zwitterionic Polymer Coating Suppresses Microglial Encapsulation to Neural Implants In Vitro and In Vivo. Advanced Biology, 2020, 4, e1900287.	3.0	23

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37	Evaluation of respiratory artifact correction techniques in multishot spiral functional mri using receiver operator characteristic analyses. Magnetic Resonance in Medicine, 1998, 40, 633-639.	1.9	21
38	Intracortical Neural Stimulation With Untethered, Ultrasmall Carbon Fiber Electrodes Mediated by the Photoelectric Effect. IEEE Transactions on Biomedical Engineering, 2019, 66, 2402-2412.	2.5	19
39	Neuronal and Physiological Correlation to Hemodynamic Resting-State Fluctuations in Health and Disease. Brain Connectivity, 2014, 4, 727-740.	0.8	18
40	Optical imaging and modulation of neurovascular responses. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 2057-2072.	2.4	17
41	Cerebral microcirculatory alterations and the no-reflow phenomenon inÂvivo after experimental pediatric cardiac arrest. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 913-925.	2.4	16
42	Long-term in vivo two-photon imaging of the neuroinflammatory response to intracortical implants and micro-vessel disruptions in awake mice. Biomaterials, 2021, 276, 121060.	5.7	13
43	Viral-Mediated Optogenetic Stimulation of Peripheral Motor Nerves in Non-human Primates. Frontiers in Neuroscience, 2019, 13, 759.	1.4	11
44	Brain Tissue Oxygen Consumption And Supply Induced By Neural Activation:. Advances in Experimental Medicine and Biology, 2009, 645, 287-292.	0.8	11
45	Imaging the stability of chronic electrical microstimulation using electrodes coated with PEDOT/CNT and iridium oxide. IScience, 2022, 25, 104539.	1.9	10
46	Application of selective saturation to image the dynamics of arterial blood flow during brain activation using magnetic resonance imaging. Magnetic Resonance in Medicine, 2006, 55, 816-825.	1.9	9
47	Apparent wall thickening of cystic renal lesions on MRI. Journal of Magnetic Resonance Imaging, 2008, 28, 103-110.	1.9	9
48	Postsynaptic activity of inhibitory neurons evokes hemodynamic fMRI responses. Neurolmage, 2021, 225, 117457.	2.1	9
49	Imaging the Efficiency of Poly(3,4â€ethylenedioxythiophene) Doped with Acidâ€Functionalized Carbon Nanotube and Iridium Oxide Electrode Coatings for Microstimulation. Advanced NanoBiomed Research, 2021, 1, 2000092.	1.7	9
50	Complexâ€valued analysis of arterial spin labeling–based functional magnetic resonance imaging signals. Magnetic Resonance in Medicine, 2009, 62, 1597-1608.	1.9	8
51	Functional Connectivity of Resting Hemodynamic Signals in Submillimeter Orientation Columns of the Visual Cortex. Brain Connectivity, 2016, 6, 596-606.	0.8	7
52	Enduring disturbances in regional cerebral blood flow and brain oxygenation at 24 h after asphyxial cardiac arrest in developing rats. Pediatric Research, 2017, 81, 94-98.	1.1	7
53	Improved spatial accuracy of functional maps in the rat olfactory bulb using supervised machine learning approach. NeuroImage, 2016, 137, 1-8.	2.1	6
54	Development of a PET radioligand selective for cerebral amyloid angiopathy. Nuclear Medicine and Biology, 2021, 92, 85-96.	0.3	6

#	Article	IF	CITATIONS
55	Prolonged functional optical sensitivity in non-human primate motor nerves following cyclosporine-based immunosuppression and rAAV2-retro mediated expression of ChR2. , 2019, , .		2

56 Contrast mechanisms and acquisition methods in functional MRI. , 2004, 2004, 5219-22.

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