# Mingrui Zhao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/12093793/publications.pdf

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|---|---|---|---|
| 37 papers | 4,214 citations | 361045 20 h-index | 329751 37 g-index |
| 40 all docs | 40 docs citations | 40 times ranked | 4418 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mesoscopic Mapping of Ictal Neurovascular Coupling in Awake Behaving Mice Using Optical Spectroscopy and Genetically Encoded Calcium Indicators. Frontiers in Neuroscience, 2021, 15, 704834. | 1.4 | 4 |
| 2 | Innovations in the Neurosurgical Management of Epilepsy. World Neurosurgery, 2020, 139, 775-788. | 0.7 | 8 |
| 3 | Burst suppression uncovers rapid widespread alterations in network excitability caused by an acute seizure focus. Brain, 2019, 142, 3045-3058. | 3.7 | 10 |
| 4 | In Vivo Femtosecond Laser Subsurface Cortical Microtransections Attenuate Acute Rat Focal Seizures. Cerebral Cortex, 2019, 29, 3415-3426. | 1.6 | 4 |
| 5 | Role of inhibitory control in modulating focal seizure spread. Brain, 2018, 141, 2083-2097. | 3.7 | 75 |
| 6 | Glial Calcium Waves are Triggered by Seizure Activity and Not Essential for Initiating Ictal Onset or Neurovascular Coupling. Cerebral Cortex, 2017, 27, 3318-3330. | 1.6 | 21 |
| 7 | Energy deficit in parvalbumin neurons leads to circuit dysfunction, impaired sensory gating and social disability. Neurobiology of Disease, 2016, 93, 35-46. | 2.1 | 87 |
| 8 | Reduction in focal ictal activity following transplantation of MGE interneurons requires expression of the GABAA receptor ÃŽÂ±4 subunit. Frontiers in Cellular Neuroscience, 2015, 9, 127. | 1.8 | 12 |
| 9 | Optical triggered seizures using a caged 4-Aminopyridine. Frontiers in Neuroscience, 2015, 9, 25. | 1.4 | 11 |
| 10 | Optical electrocorticogram (OECoG) using wide-field calcium imaging reveals the divergence of neuronal and glial activity during acute rodent seizures. Epilepsy and Behavior, 2015, 49, 61-65. | 0.9 | 17 |
| 11 | Optogenetic tools for modulating and probing the epileptic network. Epilepsy Research, 2015, 116, 15-26. | 0.8 | 28 |
| 12 | Wide-fieldin vivoneocortical calcium dye imaging using a convection-enhanced loading technique combined with simultaneous multiwavelength imaging of voltage-sensitive dyes and hemodynamic signals. Neurophotonics, 2014, 1, 015003. | 1.7 | 26 |
| 13 | Contralateral dissociation between neural activity and cerebral blood volume during recurrent acute focal neocortical seizures. Epilepsia, 2014, 55, 1423-1430. | 2.6 | 22 |
| 14 | Coupling between gamma-band power and cerebral blood volume during recurrent acute neocortical seizures. NeuroImage, 2014, 97, 62-70. | 2.1 | 30 |
| 15 | Multi-Spectral Imaging of Blood Volume, Metabolism, Oximetry, and Light Scattering. Neuromethods, 2014, , 201-219. | 0.2 | 1 |
| 16 | Simultaneous Multi-Wavelength Optical Imaging of Neuronal and Hemodynamic Activity. Neuromethods, 2014, , 237-249. | 0.2 | 6 |
| 17 | The Effects of Focal Epileptic Activity on Regional Sensory-Evoked Neurovascular Coupling and Postictal Modulation of Bilateral Sensory Processing. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1595-1604. | 2.4 | 18 |
| 18 | Imaging preictal hemodynamic changes in neocortical epilepsy. Neurosurgical Focus, 2013, 34, E10. | 1.0 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Dynamic Neurovascular Coupling and Uncoupling during Ictal Onset, Propagation, and Termination Revealed by Simultaneous In Vivo Optical Imaging of Neural Activity and Local Blood Volume. Cerebral Cortex, 2013, 23, 885-899. | 1.6 | 75 |
| 20 | Tissue hypoxia correlates with intensity of interictal spikes. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1394-1402. | 2.4 | 28 |
| 21 | Interneuron Progenitors Attenuate the Power of Acute Focal Ictal Discharges. Neurotherapeutics, 2011, 8, 763-773. | 2.1 | 29 |
| 22 | Subâ€surface, micrometerâ€scale incisions produced in rodent cortex using tightlyâ€focused femtosecond laser pulses. Lasers in Surgery and Medicine, 2011, 43, 382-391. | 1.1 | 14 |
| 23 | Preictal and Ictal Neurovascular and Metabolic Coupling Surrounding a Seizure Focus. Journal of Neuroscience, 2011, 31, 13292-13300. | 1.7 | 109 |
| 24 | Spatiotemporal Dynamics of Perfusion and Oximetry during Ictal Discharges in the Rat Neocortex. Journal of Neuroscience, 2009, 29, 2814-2823. | 1.7 | 97 |
| 25 | Hemodynamic Surrogates for Excitatory Membrane Potential Change During Interictal Epileptiform Events in Rat Neocortex. Journal of Neurophysiology, 2009, 101, 2550-2562. | 0.9 | 47 |
| 26 | The Importance of Latency in the Focality of Perfusion and Oxygenation Changes Associated with Triggered after Discharges in Human Cortex. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1003-1014. | 2.4 | 21 |
| 27 | Intraoperative Optical Imaging of Human Cortex. , 2009, , 135-157. | | 0 |
| 28 | Fibroblast Growth Factor Receptor-1 is Required for Long-Term Potentiation, Memory Consolidation, and Neurogenesis. Biological Psychiatry, 2007, 62, 381-390. | 0.7 | 137 |
| 29 | Focal Increases in Perfusion and Decreases in Hemoglobin Oxygenation Precede Seizure Onset in Spontaneous Human Epilepsy. Epilepsia, 2007, 48, 2059-2067. | 2.6 | 123 |
| 30 | Recent developments in oximetry and perfusion-based mapping techniques and their role in the surgical treatment of neocortical epilepsy. Epilepsy and Behavior, 2006, 8, 363-375. | 0.9 | 21 |
| 31 | Intrinsic optical signal imaging of neocortical seizures: the â€˜epileptic dipâ€™. NeuroReport, 2006, 17, 499-503. | 0.6 | 132 |
| 32 | Neurovascular Coupling and Oximetry During Epileptic Events. Molecular Neurobiology, 2006, 33, 181-198. | 1.9 | 58 |
| 33 | NT-3 facilitates hippocampal plasticity and learning and memory by regulating neurogenesis. Learning and Memory, 2006, 13, 307-315. | 0.5 | 158 |
| 34 | Cerebellar Deficits and Hyperactivity in Mice Lacking Smad4. Journal of Biological Chemistry, 2003, 278, 42313-42320. | 1.6 | 60 |
| 35 | Transcriptional profiling reveals regulated genes in the hippocampus during memory formation. Hippocampus, 2002, 12, 821-833. | 0.9 | 76 |
| 36 | Neurogenesis may relate to some but not all types of hippocampal-dependent learning. Hippocampus, 2002, 12, 578-584. | 0.9 | 762 |

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|---|---|---|---|
| 37 | Neurogenesis in the adult is involved in the formation of trace memories. Nature, 2001, 410, 372-376. | 13.7 | 1,853 |