# Olga Garaschuk

List of Publications by Year
in descending order



| 57 | 11,318 | 147801 31 | 149698 56 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 60 | 60 | 60 | 17219 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Interplay between cGMP and Calcium Signaling in Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2022, 23, 7048. | 4.1 | 8 |
| 2 | Olfactory impairment in men and mice related to aging and amyloid-induced pathology. Pflugers Archiv European Journal of Physiology, 2021, 473, 805-821. | 2.8 | 12 |
| 3 | In vivo mechanisms of cortical network dysfunction induced by systemic inflammation. Brain, Behavior, and Immunity, 2021, 96, 113-126. | 4.1 | 12 |
| 4 | Stable behavioral state-specific large scale activity patterns in the developing cortex of neonates. Cell Calcium, 2021, 98, 102448. | 2.4 | 4 |
| 5 | Oxidative Stress and Energy Metabolism in the Brain: Midlife as a Turning Point. Antioxidants, 2021, 10, 1715. | 5.1 | 29 |
| 6 | Microglia in neuropathology caused by protozoan parasites. Biological Reviews, 2020, 95, 333-349. | 10.4 | 7 |
| 7 | In vivo characterization of functional states of cortical microglia during peripheral inflammation. Brain, Behavior, and Immunity, 2020, 87, 243-255. | 4.1 | 38 |
| 8 | Cell motility and migration as determinants of stem cell efficacy. EBioMedicine, 2020, 60, 102989. | 6.1 | 26 |
| 9 | Unique Functional Properties of Mature Adult-Born Neurons in the Mouse Olfactory Bulb. Stem Cell Reports, 2020, 15, 1333-1346. | 4.8 | 5 |
| 10 | Role of intracellular Ca2+ stores for an impairment of visual processing in a mouse model of Alzheimer's disease. Neurobiology of Disease, 2019, 121, 315-326. | 4.4 | 5 |
| 11 | Single-Cell Electroporation for Measuring In Vivo Calcium Dynamics in Microglia. Methods in Molecular Biology, 2019, 2034, 231-241. | 0.9 | 10 |
| 12 | Labeling Microglia with Genetically Encoded Calcium Indicators. Methods in Molecular Biology, 2019, 2034, 243-265. | 0.9 | 2 |
| 13 | Healthy Brain Aging Modifies Microglial Calcium Signaling In Vivo. International Journal of Molecular Sciences, 2019, 20, 589. | 4.1 | 48 |
| 14 | Intracellular Ca <sup>2+</sup> stores control in vivo neuronal hyperactivity in a mouse model of Alzheimerâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1279-E1288. | 7.1 | 97 |
| 15 | A bell-shaped dependence between amyloidosis and GABA accumulation in astrocytes in a mouse model of Alzheimer's disease. Neurobiology of Aging, 2018, 61, 187-197. | 3.1 | 25 |
| 16 | Spontaneous calcium transients in the immature adult-born neurons of the olfactory bulb. Cell Calcium, 2018, 74, 43-52. | 2.4 | 7 |
| 17 | Role of presynaptic calcium stores for neural network dysfunction in Alzheimer's disease. Neural Regeneration Research, 2018, 13, 977. | 3.0 | 2 |
| 18 | Coupled Proliferation and Apoptosis Maintain the Rapid Turnover of Microglia in the Adult Brain. Cell Reports, 2017, 18, 391-405. | 6.4 | 503 |

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|---|---|---|---|
| 19 | Monitoring in vivo function of cortical microglia. Cell Calcium, 2017, 64, 109-117. | 2.4 | 27 |
| 20 | A new approach for ratiometric in vivo calcium imaging of microglia. Scientific Reports, 2017, 7, 6030. | 3.3 | 55 |
| 21 | Age-related changes in microglial physiology: the role for healthy brain ageing and neurodegenerative disorders. E-Neuroforum, 2017, 23, A182-A191. | 0.1 | 13 |
| 22 | In vivo odourant response properties of migrating adult-born neurons in the mouse olfactory bulb. Nature Communications, 2015, 6, 6349. | 12.8 | 25 |
| 23 | GABA depolarizes immature neurons and inhibits network activity in the neonatal neocortex in vivo. Nature Communications, 2015, 6, 7750. | 12.8 | 187 |
| 24 | Neuroinflammation in Alzheimer's disease. Lancet Neurology, The, 2015, 14, 388-405. | 10.2 | 4,129 |
| 25 | Brain tumour cells interconnect to a functional and resistant network. Nature, 2015, 528, 93-98. | 27.8 | 787 |
| 26 | Imaging Morphology and Function of Cortical Microglia. Neuromethods, 2014, , 209-223. | 0.3 | 1 |
| 27 | Impairment of in vivo calcium signaling in amyloid plaque-associated microglia. Acta Neuropathologica, 2014, 127, 495-505. | 7.7 | 88 |
| 28 | Network-wide dysregulation of calcium homeostasis in Alzheimerâ€™s disease. Cell and Tissue Research, 2014, 357, 427-438. | 2.9 | 63 |
| 29 | Optimized ratiometric calcium sensors for functional in vivo imaging of neurons and T lymphocytes. Nature Methods, 2014, 11, 175-182. | 19.0 | 319 |
| 30 | Longitudinal PET-MRI reveals Î²-amyloid deposition and rCBF dynamics and connects vascular amyloidosis to quantitative loss of perfusion. Nature Medicine, 2014, 20, 1485-1492. | 30.7 | 108 |
| 31 | Microglial calcium signaling in the adult, aged and diseased brain. Cell Calcium, 2013, 53, 159-169. | 2.4 | 56 |
| 32 | Imaging microcircuit function in healthy and diseased brain. Experimental Neurology, 2013, 242, 41-49. | 4.1 | 21 |
| 33 | Microglial repopulation model reveals a robust homeostatic process for replacing CNS myeloid cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18150-18155. | 7.1 | 210 |
| 34 | Soundâ€evoked network calcium transients in mouse auditory cortex in vivo. Journal of Physiology, 2012, 590, 899-918. | 2.9 | 60 |
| 35 | Two-Photon Chloride Imaging Using MQAE In Vitro and In Vivo. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot070037. | 0.3 | 21 |
| 36 | Highâ€resolution in vivo imaging of microglia using a versatile nongenetically encoded marker. European Journal of Immunology, 2012, 42, 2193-2196. | 2.9 | 36 |

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|---|---|---|---|
| 37 | In Vivo Functional Imaging of the Olfactory Bulb at Single-Cell Resolution. Neuromethods, 2011, , 21-43. | 0.3 | 1 |
| 38 | Two-Photon Imaging of Neural Networks in a Mouse Model of Alzheimerâ€™s Disease. Cold Spring Harbor Protocols, 2011, 2011, pdb.prot065789. | 0.3 | 7 |
| 39 | Microglial calcium signal acts as a rapid sensor of single neuron damage in vivo. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 1014-1024. | 4.1 | 113 |
| 40 | Intracellular calcium signalling in Alzheimerâ€™s disease. Journal of Cellular and Molecular Medicine, 2010, 14, 30-41. | 3.6 | 58 |
| 41 | In Vivo Two-Photon Calcium Imaging Using Multicell Bolus Loading. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5482. | 0.3 | 11 |
| 42 | In Vivo Ca2+ Imaging of the Living Brain Using Multi-cell Bolus Loading Technique. Neuromethods, 2010, , 205-220. | 0.3 | 0 |
| 43 | Monitoring Calcium Levels With Genetically Encoded Indicators. Neuromethods, 2010, , 101-117. | 0.3 | 3 |
| 44 | Sparsification of neuronal activity in the visual cortex at eye-opening. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15049-15054. | 7.1 | 240 |
| 45 | Wide-field and two-photon imaging of brain activity with voltage- and calcium-sensitive dyes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 2453-2467. | 4.0 | 61 |
| 46 | Wide-Field and Two-Photon Imaging of Brain Activity with Voltage and Calcium-Sensitive Dyes. Methods in Molecular Biology, 2009, 489, 43-79. | 0.9 | 45 |
| 47 | In vivo calcium imaging of the aging and diseased brain. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 99-106. | 6.4 | 57 |
| 48 | Clusters of Hyperactive Neurons Near Amyloid Plaques in a Mouse Model of Alzheimer's Disease. Science, 2008, 321, 1686-1689. | 12.6 | 882 |
| 49 | Improved calcium imaging in transgenic mice expressing a troponin Câ€“based biosensor. Nature Methods, 2007, 4, 127-129. | 19.0 | 177 |
| 50 | Troponin C-based biosensors: A new family of genetically encoded indicators for in vivo calcium imaging in the nervous system. Cell Calcium, 2007, 42, 351-361. | 2.4 | 62 |
| 51 | Targeted bulk-loading of fluorescent indicators for two-photon brain imaging in vivo. Nature Protocols, 2006, 1, 380-386. | 12.0 | 237 |
| 52 | Optical monitoring of brain function in vivo: from neurons to networks. Pflugers Archiv European Journal of Physiology, 2006, 453, 385-396. | 2.8 | 87 |
| 53 | Cortical calcium waves in resting newborn mice. Nature Neuroscience, 2005, 8, 988-990. | 14.8 | 249 |
| 54 | Novel Approaches to Monitor and Manipulate Single Neurons In Vivo. Journal of Neuroscience, 2004, 24, 9223-9227. | 3.6 | 46 |

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|---|---|---|---|
| 55 | In vivo two-photon calcium imaging of neuronal networks. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7319-7324. | 7.1 | 1,208 |
| 56 | Large-scale oscillatory calcium waves in the immature cortex. Nature Neuroscience, 2000, 3, 452-459. | 14.8 | 429 |
| 57 | Developmental profile and synaptic origin of early network oscillations in the CA1 region of rat neonatal hippocampus. Journal of Physiology, 1998, 507, 219-236. | 2.9 | 297 |