

Ghanim Ullah

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,363
citations

304602

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223716

46
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59
all docs

59
docs citations

59
times ranked

2801
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | The Critical Role of Spreading Depolarizations in Early Brain Injury: Consensus and Contention. <i>Neurocritical Care</i> , 2022, 37, 83-101. | 1.2 | 36 |
| 2 | Questioning Glutamate Excitotoxicity in Acute Brain Damage: The Importance of Spreading Depolarization. <i>Neurocritical Care</i> , 2022, 37, 11-30. | 1.2 | 18 |
| 3 | Alterations of Mitochondrial Network by Cigarette Smoking and E-Cigarette Vaping. <i>Cells</i> , 2022, 11, 1688. | 1.8 | 8 |
| 4 | Upregulated Ca ²⁺ Release from the Endoplasmic Reticulum Leads to Impaired Presynaptic Function in Familial Alzheimer's Disease. <i>Cells</i> , 2022, 11, 2167. | 1.8 | 3 |
| 5 | Impaired $\hat{I}_1\hat{I}_3$ Coupling Indicates Inhibitory Dysfunction and Seizure Risk in a Dravet Syndrome Mouse Model. <i>Journal of Neuroscience</i> , 2021, 41, 524-537. | 1.7 | 18 |
| 6 | On the origin of ultraslow spontaneous Na ⁺ fluctuations in neurons of the neonatal forebrain. <i>Journal of Neurophysiology</i> , 2021, 125, 408-425. | 0.9 | 0 |
| 7 | All-Trans Retinoic Acid Increases DRP1 Levels and Promotes Mitochondrial Fission. <i>Cells</i> , 2021, 10, 1202. | 1.8 | 13 |
| 8 | PunctaSpecks: A tool for automated detection, tracking, and analysis of multiple types of fluorescently labeled biomolecules. <i>Cell Calcium</i> , 2020, 89, 102224. | 1.1 | 3 |
| 9 | The Function of Mitochondrial Calcium Uniporter at the Whole-Cell and Single Mitochondrion Levels in WT, MICU1 KO, and MICU2 KO Cells. <i>Cells</i> , 2020, 9, 1520. | 1.8 | 11 |
| 10 | Mitochondrial dysfunction and role in spreading depolarization and seizure. <i>Journal of Computational Neuroscience</i> , 2019, 47, 91-108. | 0.6 | 6 |
| 11 | Mitochondrial fragmentation and network architecture in degenerative diseases. <i>PLoS ONE</i> , 2019, 14, e0223014. | 1.1 | 23 |
| 12 | Mechanism of Fibril and Soluble Oligomer Formation in Amyloid Beta and Hen Egg White Lysozyme Proteins. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5678-5689. | 1.2 | 20 |
| 13 | Mechanisms of Protein Fibril Formation in Amyloid Beta and Lysozyme Proteins. <i>Biophysical Journal</i> , 2019, 116, 195a-196a. | 0.2 | 0 |
| 14 | Reduced cooperativity of voltage-gated sodium channels in the hippocampal interneurons of an aged mouse model of Alzheimer's disease. <i>European Biophysics Journal</i> , 2018, 47, 539-547. | 1.2 | 2 |
| 15 | CellSpecks: A Software for Automated Detection and Analysis of Calcium Channels in Live Cells. <i>Biophysical Journal</i> , 2018, 115, 2141-2151. | 0.2 | 4 |
| 16 | Data-driven modeling of mitochondrial dysfunction in Alzheimer's disease. <i>Cell Calcium</i> , 2018, 76, 23-35. | 1.1 | 11 |
| 17 | TraceSpecks: A Software for Automated Idealization of Noisy Patch-Clamp and Imaging Data. <i>Biophysical Journal</i> , 2018, 115, 9-21. | 0.2 | 12 |
| 18 | Voxel size and gray level normalization of CT radiomic features in lung cancer. <i>Scientific Reports</i> , 2018, 8, 10545. | 1.6 | 150 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Origin of metastable oligomers and their effects on amyloid fibril self-assembly. <i>Chemical Science</i> , 2018, 9, 5937-5948. | 3.7 | 76 |
| 20 | Intrinsic dependencies of <scp>CT</scp> radiomic features on voxel size and number of gray levels. <i>Medical Physics</i> , 2017, 44, 1050-1062. | 1.6 | 428 |
| 21 | Analyzing optical imaging of Ca ²⁺ signals via TIRF microscopy: The limits on resolution due to chemical rates and depth of the channels. <i>Cell Calcium</i> , 2017, 67, 65-73. | 1.1 | 4 |
| 22 | Accounting for reconstruction kernel-induced variability in CT radiomic features using noise power spectra. <i>Journal of Medical Imaging</i> , 2017, 5, 1. | 0.8 | 24 |
| 23 | The role of glutamate in neuronal ion homeostasis: A case study of spreading depolarization. <i>PLoS Computational Biology</i> , 2017, 13, e1005804. | 1.5 | 32 |
| 24 | Anions Govern Cell Volume: A Case Study of Relative Astrocytic and Neuronal Swelling in Spreading Depolarization. <i>PLoS ONE</i> , 2016, 11, e0147060. | 1.1 | 42 |
| 25 | The gain-of-function enhancement of IP ₃ -receptor channel gating by familial Alzheimer's disease-linked presenilin mutants increases the open probability of mitochondrial permeability transition pore. <i>Cell Calcium</i> , 2016, 60, 13-24. | 1.1 | 24 |
| 26 | Mode switching of Inositol 1,4,5-trisphosphate receptor channel shapes the Spatiotemporal scales of Ca ²⁺ signals. <i>Journal of Biological Physics</i> , 2016, 42, 507-524. | 0.7 | 9 |
| 27 | Impaired mitochondrial function due to familial Alzheimer's disease-causing presenilins mutants via Ca ²⁺ disruptions. <i>Cell Calcium</i> , 2016, 59, 240-250. | 1.1 | 33 |
| 28 | Large extracellular space leads to neuronal susceptibility to ischemic injury in a Na ⁺ /K ⁺ pumps-dependent manner. <i>Journal of Computational Neuroscience</i> , 2016, 40, 177-192. | 0.6 | 17 |
| 29 | Analyzing and Modeling the Dysfunction of Inhibitory Neurons in Alzheimer's Disease. <i>PLoS ONE</i> , 2016, 11, e0168800. | 1.1 | 18 |
| 30 | Analyzing and Quantifying the Gain-of-Function Enhancement of IP ₃ Receptor Gating by Familial Alzheimer's Disease-Causing Mutants in Presenilins. <i>PLoS Computational Biology</i> , 2015, 11, e1004529. | 1.5 | 33 |
| 31 | Analyzing and Modeling the Kinetics of Amyloid Beta Pores Associated with Alzheimer's Disease Pathology. <i>PLoS ONE</i> , 2015, 10, e0137357. | 1.1 | 30 |
| 32 | The Role of Cell Volume in the Dynamics of Seizure, Spreading Depression, and Anoxic Depolarization. <i>PLoS Computational Biology</i> , 2015, 11, e1004414. | 1.5 | 72 |
| 33 | The Role of IP ₃ Receptor Channel Clustering in Ca ²⁺ Wave Propagation During Oocyte Maturation. <i>Progress in Molecular Biology and Translational Science</i> , 2014, 123, 83-101. | 0.9 | 9 |
| 34 | Unification of Neuronal Spikes, Seizures, and Spreading Depression. <i>Journal of Neuroscience</i> , 2014, 34, 11733-11743. | 1.7 | 183 |
| 35 | Oxygen and seizure dynamics: II. Computational modeling. <i>Journal of Neurophysiology</i> , 2014, 112, 213-223. | 0.9 | 73 |
| 36 | Automated Maximum Likelihood Separation of Signal from Baseline in Noisy Quantal Data. <i>Biophysical Journal</i> , 2013, 105, 68-79. | 0.2 | 16 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | A data-driven model of a modal gated ion channel: The inositol 1,4,5-trisphosphate receptor in insect Sf9 cells. <i>Journal of General Physiology</i> , 2012, 140, 159-173. | 0.9 | 38 |
| 38 | Permeant calcium ion feed-through regulation of single inositol 1,4,5-trisphosphate receptor channel gating. <i>Journal of General Physiology</i> , 2012, 140, 697-716. | 0.9 | 30 |
| 39 | Multi-scale data-driven modeling and observation of calcium puffs. <i>Cell Calcium</i> , 2012, 52, 152-160. | 1.1 | 36 |
| 40 | Simplification of reversible Markov chains by removal of states with low equilibrium occupancy. <i>Journal of Theoretical Biology</i> , 2012, 311, 117-129. | 0.8 | 16 |
| 41 | Kalman filter tracking of intracellular neuronal voltage and current. , 2011, , . | | 11 |
| 42 | Assimilating Seizure Dynamics. <i>PLoS Computational Biology</i> , 2010, 6, e1000776. | 1.5 | 98 |
| 43 | Tracking and control of neuronal Hodgkin-Huxley dynamics. <i>Physical Review E</i> , 2009, 79, 040901. | 0.8 | 76 |
| 44 | The influence of sodium and potassium dynamics on excitability, seizures, and the stability of persistent states: II. Network and glial dynamics. <i>Journal of Computational Neuroscience</i> , 2009, 26, 171-183. | 0.6 | 125 |
| 45 | The influence of sodium and potassium dynamics on excitability, seizures, and the stability of persistent states: I. Single neuron dynamics. <i>Journal of Computational Neuroscience</i> , 2009, 26, 159-170. | 0.6 | 230 |
| 46 | Modeling Ca ²⁺ signaling differentiation during oocyte maturation. <i>Cell Calcium</i> , 2007, 42, 556-564. | 1.1 | 47 |
| 47 | Modeling the Statistics of Elementary Calcium Release Events. <i>Biophysical Journal</i> , 2006, 90, 3485-3495. | 0.2 | 40 |
| 48 | Anti-phase calcium oscillations in astrocytes via inositol (1, 4, 5)-trisphosphate regeneration. <i>Cell Calcium</i> , 2006, 39, 197-208. | 1.1 | 116 |
| 49 | Thermal activation by power-limited coloured noise. <i>New Journal of Physics</i> , 2005, 7, 17-17. | 1.2 | 14 |