

Tomasz Boczek

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

610
citations

759055

12
h-index

677027

22
g-index

43
all docs

43
docs citations

43
times ranked

847
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Protein crystallization by surface entropy reduction: optimization of the SER strategy. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 636-645. | 2.5 | 146 |
| 2 | Structure and Function of <i>Bacillus subtilis</i> YphP, a Prokaryotic Disulfide Isomerase with a CXC Catalytic Motif. <i>Biochemistry</i> , 2009, 48, 8664-8671. | 1.2 | 37 |
| 3 | Regulation of Neuronal Survival and Axon Growth by a Perinuclear cAMP Compartment. <i>Journal of Neuroscience</i> , 2019, 39, 5466-5480. | 1.7 | 35 |
| 4 | Glutamate Deregulation in Ketamine-Induced Psychosis—A Potential Role of PSD95, NMDA Receptor and PMCA Interaction. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 181. | 1.8 | 27 |
| 5 | The Role of G Protein-Coupled Receptors (GPCRs) and Calcium Signaling in Schizophrenia. Focus on GPCRs Activated by Neurotransmitters and Chemokines. <i>Cells</i> , 2021, 10, 1228. | 1.8 | 25 |
| 6 | Downregulation of PMCA2 or PMCA3 reorganizes Ca ²⁺ handling systems in differentiating PC12 cells. <i>Cell Calcium</i> , 2012, 52, 433-444. | 1.1 | 24 |
| 7 | Regulation of GAP43/calmodulin complex formation via calcineurin-dependent mechanism in differentiated PC12 cells with altered PMCA isoforms composition. <i>Molecular and Cellular Biochemistry</i> , 2015, 407, 251-262. | 1.4 | 20 |
| 8 | Ketamine and Calcium Signaling—A Crosstalk for Neuronal Physiology and Pathology. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8410. | 1.8 | 19 |
| 9 | Plasma Membrane Ca ²⁺ -ATPase Isoforms Composition Regulates Cellular pH Homeostasis in Differentiating PC12 Cells in a Manner Dependent on Cytosolic Ca ²⁺ Elevations. <i>PLoS ONE</i> , 2014, 9, e102352. | 1.1 | 19 |
| 10 | Cross talk among PMCA, calcineurin and NFAT transcription factors in control of calmodulin gene expression in differentiating PC12 cells. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2017, 1860, 502-515. | 0.9 | 16 |
| 11 | Regional brain dysregulation of Ca ²⁺ -handling systems in ketamine-induced rat model of experimental psychosis. <i>Cell and Tissue Research</i> , 2016, 363, 609-620. | 1.5 | 14 |
| 12 | Circulating glutathione peroxidase and superoxide dismutase levels in patients with epilepsy: A meta-analysis. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2021, 91, 278-286. | 0.9 | 14 |
| 13 | Calcium-/Calmodulin-Dependent Protein Kinase II (CaMKII) Inhibition Induces Learning and Memory Impairment and Apoptosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-19. | 1.9 | 14 |
| 14 | Downregulation of microsomal glutathione-S-transferase 1 modulates protective mechanisms in differentiated PC12 cells. <i>Journal of Physiology and Biochemistry</i> , 2014, 70, 375-383. | 1.3 | 13 |
| 15 | Region-specific effects of repeated ketamine administration on the presynaptic GABAergic neurochemistry in rat brain. <i>Neurochemistry International</i> , 2015, 91, 13-25. | 1.9 | 13 |
| 16 | MTP18 is a Novel Regulator of Mitochondrial Fission in CNS Neuron Development, Axonal Growth, and Injury Responses. <i>Scientific Reports</i> , 2019, 9, 10669. | 1.6 | 12 |
| 17 | The Puzzling Role of Neuron-Specific PMCA Isoforms in the Aging Process. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6338. | 1.8 | 12 |
| 18 | Cell death modulation by transient receptor potential melastatin channels TRPM2 and TRPM7 and their underlying molecular mechanisms. <i>Biochemical Pharmacology</i> , 2021, 190, 114664. | 2.0 | 12 |

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|----|--|-----|-----------|
| 19 | Gene expression pattern in PC12 cells with reduced PMCA2 or PMCA3 isoform: selective up-regulation of calmodulin and neuromodulin. <i>Molecular and Cellular Biochemistry</i> , 2012, 360, 89-102. | 1.4 | 11 |
| 20 | Astrocytic Calcium and cAMP in Neurodegenerative Diseases. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, . | 1.8 | 11 |
| 21 | Calcium-engaged Mechanisms of Nongenomic Action of Neurosteroids. <i>Current Neuropharmacology</i> , 2017, 15, 1174-1191. | 1.4 | 10 |
| 22 | The changes of serum zinc, copper, and selenium levels in epileptic patients: a systematic review and meta-analysis. <i>Expert Review of Clinical Pharmacology</i> , 2020, 13, 1047-1058. | 1.3 | 9 |
| 23 | Crosstalk among Calcium ATPases: PMCA, SERCA and SPCA in Mental Diseases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2785. | 1.8 | 9 |
| 24 | Receptor-Dependent and Independent Regulation of Voltage-Gated Ca ²⁺ Channels and Ca ²⁺ -Permeable Channels by Endocannabinoids in the Brain. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8168. | 1.8 | 9 |
| 25 | Plasma membrane Ca ²⁺ -ATPase is a novel target for ketamine action. <i>Biochemical and Biophysical Research Communications</i> , 2015, 465, 312-317. | 1.0 | 8 |
| 26 | Functional characteristic of PC12 cells with reduced microsomal glutathione transferase 1.. <i>Acta Biochimica Polonica</i> , 2010, 57, . | 0.3 | 8 |
| 27 | Silencing of Plasma Membrane Ca ²⁺ -ATPase Isoforms 2 and 3 Impairs Energy Metabolism in Differentiating PC12 Cells. <i>BioMed Research International</i> , 2014, 2014, 1-13. | 0.9 | 7 |
| 28 | Abnormal changes in voltage-gated sodium channels subtypes Na V 1.1, Na V 1.2, Na V 1.3, Na V 1.6 and CaM/CaMKII pathway in low-grade astrocytoma. <i>Neuroscience Letters</i> , 2018, 674, 148-155. | 1.0 | 7 |
| 29 | Calcium as a Trojan horse in mental diseasesâ€”The role of PMCA and PMCA-interacting proteins in bipolar disorder and schizophrenia. <i>Neuroscience Letters</i> , 2018, 663, 48-54. | 1.0 | 7 |
| 30 | cAMP at Perinuclear mAKAP± Signalosomes Is Regulated by Local Ca ²⁺ Signaling in Primary Hippocampal Neurons. <i>ENeuro</i> , 2021, 8, ENEURO.0298-20.2021. | 0.9 | 7 |
| 31 | Hexachloronaphthalene (HxCN) impairs the dopamine pathway in an in vitro model of PC12 cells. <i>Chemosphere</i> , 2022, 287, 132284. | 4.2 | 6 |
| 32 | The Effect of Ca ²⁺ , Lobe-Specificity, and CaMKII on CaM Binding to NaV1.1. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2495. | 1.8 | 5 |
| 33 | Compartmentalization of local cAMP signaling in neuronal growth and survival. <i>Neural Regeneration Research</i> , 2020, 15, 453. | 1.6 | 5 |
| 34 | GABA-shunt enzymes activity in GH3 cells with reduced level of PMCA2 or PMCA3 isoform. <i>Biochemical and Biophysical Research Communications</i> , 2011, 411, 815-820. | 1.0 | 4 |
| 35 | The G Protein-Coupled Glutamate Receptors as Novel Molecular Targets in Schizophrenia Treatmentâ€”A Narrative Review. <i>Journal of Clinical Medicine</i> , 2021, 10, 1475. | 1.0 | 4 |
| 36 | Functional characteristic of PC12 cells with reduced microsomal glutathione transferase 1. <i>Acta Biochimica Polonica</i> , 2010, 57, 589-96. | 0.3 | 4 |

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|----|---|-----|-----------|
| 37 | Calcium Dyshomeostasis Alters CCL5 Signaling in Differentiated PC12 Cells. <i>BioMed Research International</i> , 2019, 2019, 1-12. | 0.9 | 3 |
| 38 | Hexachloronaphthalene Induces Mitochondrial-Dependent Neurotoxicity via a Mechanism of Enhanced Production of Reactive Oxygen Species. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-17. | 1.9 | 2 |
| 39 | Adaptation of microsomal glutathione transferase 1 in PC12 cells with modified PMCA isoforms composition. <i>Indian Journal of Biochemistry and Biophysics</i> , 2010, 47, 265-71. | 0.2 | 1 |
| 40 | Early Developmental PMCA2b Expression Protects From Ketamine-Induced Apoptosis and GABA Impairments in Differentiating Hippocampal Progenitor Cells. <i>Frontiers in Cellular Neuroscience</i> , 0, 16, . | 1.8 | 0 |