

Zin Z Khaing

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,602
citations

218677

26
h-index

265206

42
g-index

45
all docs

45
docs citations

45
times ranked

3963
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The effects of hyaluronic acid hydrogels with tunable mechanical properties on neural progenitor cell differentiation. <i>Biomaterials</i> , 2010, 31, 3930-3940. | 11.4 | 427 |
| 2 | Concentration-dependent Effect of Sodium Hypochlorite on Stem Cells of Apical Papilla Survival and Differentiation. <i>Journal of Endodontics</i> , 2014, 40, 51-55. | 3.1 | 248 |
| 3 | BDNF mRNA expression in rat hippocampus and prefrontal cortex: effects of neonatal ventral hippocampal damage and antipsychotic drugs. <i>European Journal of Neuroscience</i> , 2001, 14, 135-144. | 2.6 | 179 |
| 4 | High molecular weight hyaluronic acid limits astrocyte activation and scar formation after spinal cord injury. <i>Journal of Neural Engineering</i> , 2011, 8, 046033. | 3.5 | 174 |
| 5 | Advances in natural biomaterials for nerve tissue repair. <i>Neuroscience Letters</i> , 2012, 519, 103-114. | 2.1 | 127 |
| 6 | The fundamental role of subcellular topography in peripheral nerve repair therapies. <i>Biomaterials</i> , 2012, 33, 4264-4276. | 11.4 | 109 |
| 7 | Gene expression in dopamine and GABA systems in an animal model of schizophrenia: effects of antipsychotic drugs. <i>European Journal of Neuroscience</i> , 2003, 18, 391-402. | 2.6 | 101 |
| 8 | The neonatal ventral hippocampal lesion model of schizophrenia: effects on dopamine and GABA mRNA markers in the rat midbrain. <i>European Journal of Neuroscience</i> , 2003, 18, 3097-3104. | 2.6 | 97 |
| 9 | Novel Degradable Co-polymers of Polypyrrole Support Cell Proliferation and Enhance Neurite Out-Growth with Electrical Stimulation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 1265-1282. | 3.5 | 89 |
| 10 | H19, a marker of developmental transition, is reexpressed in human atherosclerotic plaques and is regulated by the insulin family of growth factors in cultured rabbit smooth muscle cells.. <i>Journal of Clinical Investigation</i> , 1996, 97, 1276-1285. | 8.2 | 88 |
| 11 | Advanced biomaterials for repairing the nervous system: what can hydrogels do for the brain?. <i>Materials Today</i> , 2014, 17, 332-340. | 14.2 | 77 |
| 12 | Super-Resolution Ultrasound Localization Microscopy Through Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 829-839. | 8.9 | 77 |
| 13 | Proteomic comparison of two fractions derived from the transsynaptic scaffold. <i>Journal of Neuroscience Research</i> , 2005, 81, 762-775. | 2.9 | 70 |
| 14 | Biomimetic hydrogels direct spinal progenitor cell differentiation and promote functional recovery after spinal cord injury. <i>Journal of Neural Engineering</i> , 2018, 15, 025004. | 3.5 | 58 |
| 15 | Hyaluronic acid and neural stem cells: implications for biomaterial design. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7850-7866. | 5.8 | 50 |
| 16 | Spontaneous Nucleation of Stable Perfluorocarbon Emulsions for Ultrasound Contrast Agents. <i>Nano Letters</i> , 2019, 19, 173-181. | 9.1 | 45 |
| 17 | Contrast-enhanced ultrasound to visualize hemodynamic changes after rodent spinal cord injury. <i>Journal of Neurosurgery: Spine</i> , 2018, 29, 306-313. | 1.7 | 44 |
| 18 | Deep Learning for Super-resolution Vascular Ultrasound Imaging. , 2019, , . | | 43 |

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|----|--|-----|-----------|
| 19 | Functional characterization of optimized acellular peripheral nerve graft in a rat sciatic nerve injury model. <i>Neurological Research</i> , 2011, 33, 600-608. | 1.3 | 39 |
| 20 | Neuronal growth promoting sesquiterpene "neolignans; syntheses and biological studies. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 383-393. | 2.8 | 36 |
| 21 | Sacrificial Crystal Templated Hyaluronic Acid Hydrogels As Biomimetic 3D Tissue Scaffolds for Nerve Tissue Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1451-1459. | 5.2 | 36 |
| 22 | Injectable Hydrogels for Spinal Cord Repair: A Focus on Swelling and Intraspinal Pressure. <i>Cells Tissues Organs</i> , 2016, 202, 67-84. | 2.3 | 33 |
| 23 | Temporal and Spatial Evolution of Raised Intraspinal Pressure after Traumatic Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 645-651. | 3.4 | 33 |
| 24 | Assessing Forelimb Function after Unilateral Cervical Spinal Cord Injury: Novel Forelimb Tasks Predict Lesion Severity and Recovery. <i>Journal of Neurotrauma</i> , 2012, 29, 488-498. | 3.4 | 29 |
| 25 | A Prohormone Convertase Cleavage Site within a Predicted α -Helix Mediates Sorting of the Neuronal and Endocrine Polypeptide VGF into the Regulated Secretory Pathway. <i>Journal of Biological Chemistry</i> , 2005, 280, 41595-41608. | 3.4 | 28 |
| 26 | Into the groove: instructive silk-polypyrrole films with topographical guidance cues direct DRG neurite outgrowth. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015, 26, 1327-1342. | 3.5 | 27 |
| 27 | Localized and sustained release of brain-derived neurotrophic factor from injectable hydrogel/microparticle composites fosters spinal learning after spinal cord injury. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7560-7571. | 5.8 | 27 |
| 28 | High-Frequency Nonlinear Doppler Contrast-Enhanced Ultrasound Imaging of Blood Flow. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 1776-1784. | 3.0 | 24 |
| 29 | 3D Printing with Nucleic Acid Adhesives. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 19-26. | 5.2 | 23 |
| 30 | Local and Downstream Effects of Excitotoxic Lesions in the Rat Medial Prefrontal Cortex on In Vivo 1H-MRS Signals. <i>Neuropsychopharmacology</i> , 2000, 22, 430-439. | 5.4 | 22 |
| 31 | Hippocampal and cortical neuronal growth mediated by the small molecule natural product clovanemagnolol. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4808-4812. | 2.2 | 19 |
| 32 | Surface modification of neural electrodes with a pyrrole-hyaluronic acid conjugate to attenuate reactive astrogliosis in vivo. <i>RSC Advances</i> , 2015, 5, 39228-39231. | 3.6 | 19 |
| 33 | Differential DNA damage in response to the neonatal and adult excitotoxic hippocampal lesion in rats. <i>European Journal of Neuroscience</i> , 2000, 12, 4424-4433. | 2.6 | 18 |
| 34 | Contrast-Enhanced Ultrasound for Assessment of Local Hemodynamic Changes Following a Rodent Contusion Spinal Cord Injury. <i>Military Medicine</i> , 2020, 185, 470-475. | 0.8 | 14 |
| 35 | Effect of Durotomy versus Myelotomy on Tissue Sparing and Functional Outcome after Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2021, 38, 746-755. | 3.4 | 13 |
| 36 | Transcutaneous contrast-enhanced ultrasound imaging of the posttraumatic spinal cord. <i>Spinal Cord</i> , 2020, 58, 695-704. | 1.9 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Aptamer Antagonists of Myelin-Derived Inhibitors Promote Axon Growth. PLoS ONE, 2010, 5, e9726. | 2.5 | 11 |
| 38 | Blood Flow Changes Associated with Spinal Cord Injury Assessed by Non-linear Doppler Contrast-Enhanced Ultrasound. Ultrasound in Medicine and Biology, 2022, 48, 1410-1419. | 1.5 | 11 |
| 39 | Assessing Forelimb Function after Unilateral Cervical SCI using Novel Tasks: Limb Step-alternation, Postural Instability and Pasta Handling. Journal of Visualized Experiments, 2013, , e50955. | 0.3 | 6 |
| 40 | Neonatal Hippocampal Damage in the Rat: A Heuristic Model of Schizophrenia. Psychiatric Annals, 1999, 29, 157-160. | 0.1 | 5 |
| 41 | Structural stabilization of CNS synapses during postnatal development in rat cortex. Journal of Neurochemistry, 2006, 98, 471-480. | 3.9 | 4 |
| 42 | Embryonic mesencephalon derived neurospheres contain progenitors as well as differentiated neurons and glia. Restorative Neurology and Neuroscience, 2009, 27, 613-622. | 0.7 | 4 |
| 43 | Noninvasive, In-pen Approach Test for Laboratory-housed Pigs. Journal of Visualized Experiments, 2019, , . | 0.3 | 3 |
| 44 | Detection of Cell Proliferation and Cell Fate in Adult CNS Using BrdU Double-Label Immunohistochemistry. , 2003, 79, 499-506. | | 2 |
| 45 | Notice of Removal: Contrast enhanced ultrasound(CEUS) imaging of rat spinal cord injury. , 2017, , . | | 1 |