

AleÅ; HejÄb

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,286
citations

430843

18
h-index

361001

35
g-index

54
all docs

54
docs citations

54
times ranked

1777
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Bone Marrow Stem Cells and Polymer Hydrogels—Two Strategies for Spinal Cord Injury Repair. <i>Cellular and Molecular Neurobiology</i> , 2006, 26, 1111-1127. | 3.3 | 222 |
| 2 | HPMA-RGD Hydrogels Seeded with Mesenchymal Stem Cells Improve Functional Outcome in Chronic Spinal Cord Injury. <i>Stem Cells and Development</i> , 2010, 19, 1535-1546. | 2.1 | 124 |
| 3 | Biocompatible hydrogels in spinal cord injury repair. <i>Physiological Research</i> , 2008, 57 Suppl 3, S121-S132. | 0.9 | 100 |
| 4 | SIKVAV-modified highly superporous PHEMA scaffolds with oriented pores for spinal cord injury repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 1298-1309. | 2.7 | 66 |
| 5 | Acute and delayed implantation of positively charged 2-hydroxyethyl methacrylate scaffolds in spinal cord injury in the rat. <i>Journal of Neurosurgery: Spine</i> , 2008, 8, 67-73. | 1.7 | 62 |
| 6 | Injectable hydroxyphenyl derivative of hyaluronic acid hydrogel modified with RGD as scaffold for spinal cord injury repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1129-1140. | 4.0 | 59 |
| 7 | Validity of primary motor area localization with fMRI versus electric cortical stimulation: A comparative study. <i>Acta Neurochirurgica</i> , 2009, 151, 1071-1080. | 1.7 | 55 |
| 8 | Macroporous hydrogels based on 2-hydroxyethyl methacrylate. Part 6: 3D hydrogels with positive and negative surface charges and polyelectrolyte complexes in spinal cord injury repair. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 1571-1577. | 3.6 | 53 |
| 9 | The Use of Diffusion Tensor Images of the Corticospinal Tract in Intrinsic Brain Tumor Surgery. <i>Neurosurgery</i> , 2012, 71, 331-340. | 1.1 | 42 |
| 10 | Highly superporous cholesterol—modified poly(2-hydroxyethyl methacrylate) scaffolds for spinal cord injury repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 99A, 618-629. | 4.0 | 36 |
| 11 | Low Concentration of Isoflurane Promotes the Development of Neurogenic Pulmonary Edema in Spinal Cord Injured Rats. <i>Journal of Neurotrauma</i> , 2007, 24, 1487-1501. | 3.4 | 34 |
| 12 | The Effect of iPS-Derived Neural Progenitors Seeded on Laminin-Coated pHEMA-MOETACI Hydrogel with Dual Porosity in a Rat Model of Chronic Spinal Cord Injury. <i>Cell Transplantation</i> , 2019, 28, 400-412. | 2.5 | 33 |
| 13 | Modified Methacrylate Hydrogels Improve Tissue Repair after Spinal Cord Injury. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2481. | 4.1 | 28 |
| 14 | Adjusting the Chemical and Physical Properties of Hydrogels Leads to Improved Stem Cell Survival and Tissue Ingrowth in Spinal Cord Injury Reconstruction: A Comparative Study of Four Methacrylate Hydrogels. <i>Stem Cells and Development</i> , 2013, 22, 2794-2805. | 2.1 | 27 |
| 15 | Macroporous hydrogels based on 2-hydroxyethyl methacrylate. Part 5: Hydrolytically degradable materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 1357-1364. | 3.6 | 26 |
| 16 | Dynamics of tissue ingrowth in SIKVAV-modified highly superporous PHEMA scaffolds with oriented pores after bridging a spinal cord transection. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 89. | 3.6 | 23 |
| 17 | A new model of severe neurogenic pulmonary edema in spinal cord injured rat. <i>Neuroscience Letters</i> , 2007, 423, 167-171. | 2.1 | 22 |
| 18 | Computer-Aided Diagnosis Improves Detection of Small Intracranial Aneurysms on MRA in a Clinical Setting. <i>American Journal of Neuroradiology</i> , 2014, 35, 1897-1902. | 2.4 | 22 |

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|----|--|-----|-----------|
| 19 | Management of posterior inferior cerebellar artery aneurysms: What factors play the most important role in outcome?. <i>Acta Neurochirurgica</i> , 2017, 159, 549-558. | 1.7 | 19 |
| 20 | Piezosurgery prevents brain tissue damage: an experimental study on a new rat model. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2011, 40, 840-844. | 1.5 | 18 |
| 21 | Microsurgery and endovascular treatment of posterior inferior cerebellar artery aneurysms. <i>Neurosurgical Review</i> , 2016, 39, 159-168. | 2.4 | 18 |
| 22 | Anesthesia type determines risk of cerebral infarction after carotid endarterectomy. <i>Journal of Vascular Surgery</i> , 2019, 70, 138-147. | 1.1 | 16 |
| 23 | Treating spinal cord injury in rats with a combination of human fetal neural stem cells and hydrogels modified with serotonin. <i>Acta Neurobiologiae Experimentalis</i> , 2013, 73, 102-15. | 0.7 | 16 |
| 24 | Low degree of anesthesia increases the risk of neurogenic pulmonary edema development. <i>Medical Hypotheses</i> , 2008, 70, 308-313. | 1.5 | 14 |
| 25 | Coefficient of energy balance, a new parameter for basic investigation of the cerebrospinal fluid. <i>Clinical Chemistry and Laboratory Medicine</i> , 2014, 52, 1009-17. | 2.3 | 14 |
| 26 | Identification of the large descending tracts using diffusion tensor imaging in Chiari III malformation. <i>Child's Nervous System</i> , 2010, 26, 867-870. | 1.1 | 13 |
| 27 | Chemical angioplasty with spasmolytics for vasospasm after subarachnoid hemorrhage. <i>Acta Neurochirurgica</i> , 2017, 159, 713-720. | 1.7 | 13 |
| 28 | Hemodynamic changes in a middle cerebral artery aneurysm at follow-up times before and after its rupture: a case report and a review of the literature. <i>Neurosurgical Review</i> , 2017, 40, 329-338. | 2.4 | 13 |
| 29 | Intrathecal Midazolam as Supplementary Analgesia for Chronic Lumbar Painâ€™15 Years' Experience. <i>Pain Medicine</i> , 2011, 12, 1309-1315. | 1.9 | 12 |
| 30 | Distant white-matter diffusion changes caused by tumor growth. <i>Journal of Neuroradiology</i> , 2013, 40, 71-80. | 1.1 | 11 |
| 31 | The role of nitric oxide in the development of neurogenic pulmonary edema in spinal cord-injured rats: the effect of preventive interventions. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R1111-R1117. | 1.8 | 9 |
| 32 | Morphological and Hemodynamic Changes during Cerebral Aneurysm Growth. <i>Brain Sciences</i> , 2021, 11, 520. | 2.3 | 8 |
| 33 | Elevated Intracranial Pressure, Low Cerebral Perfusion Pressure, and Impaired Brain Metabolism Correlate with Fatal Outcome After Severe Brain Injury. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2012, 73, 10-17. | 0.8 | 7 |
| 34 | The effect of a gadolinium-based contrast agent on diffusion tensor imaging. <i>European Journal of Radiology</i> , 2012, 81, 1877-1882. | 2.6 | 7 |
| 35 | Anatomy of the supraventricular portion of the pyramidal tract. <i>Acta Neurochirurgica</i> , 2012, 154, 1097-1104. | 1.7 | 5 |
| 36 | Experimental reconstruction of the injured spinal cord. <i>Advances and Technical Standards in Neurosurgery</i> , 2011, , 65-95. | 0.5 | 5 |

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|----|--|-----|-----------|
| 37 | Carotid-ophthalmic aneurysmsâ€™Our results and treatment strategy. British Journal of Neurosurgery, 2015, 29, 237-242. | 0.8 | 4 |
| 38 | Computational Fluid Dynamics of a Fatal Ruptured Anterior Communicating Artery Aneurysm. Journal of Neurological Surgery, Part A: Central European Neurosurgery, 2017, 78, 610-616. | 0.8 | 4 |
| 39 | Can Aspartate Aminotransferase in the Cerebrospinal Fluid Be a Reliable Predictive Parameter?. Brain Sciences, 2020, 10, 698. | 2.3 | 4 |
| 40 | Elevated Intracranial Pressure, Low Cerebral Perfusion Pressure, and Impaired Brain Metabolism Correlate with Fatal Outcome After Severe Brain Injury. Central European Neurosurgery, 2011, 72, 001-001. | 0.7 | 3 |
| 41 | Selective internal carotid artery cross-clamping increases the specificity of cerebral oximetry for indication of shunting during carotid endarterectomy. Acta Neurochirurgica, 2021, 163, 1807-1817. | 1.7 | 3 |
| 42 | Development of the Cerebrospinal Fluid in Early Stage after Hemorrhage in the Central Nervous System. Life, 2021, 11, 300. | 2.4 | 3 |
| 43 | Bypass Procedure Performed in the Field of a Decompressive Craniectomy in the Case of an MCA Dissecting Aneurysm: Case Report and Review of the Literature. Brain Sciences, 2021, 11, 29. | 2.3 | 3 |
| 44 | P Com - P1 Aneurysm Formation in a Patient with Bilateral Internal Carotid Occlusion. Central European Neurosurgery, 2011, 72, 001-001. | 0.7 | 2 |
| 45 | P Comâ€™P1 Aneurysm Formation in a Patient with Bilateral Internal Carotid Occlusion. Journal of Neurological Surgery, Part A: Central European Neurosurgery, 2012, 73, 59-61. | 0.8 | 2 |
| 46 | Comment on the study â€™Cerebrospinal fluid lactate: measurement of an adult reference intervalâ€™™ by Sally D Slack, Paul Turley, Victoria Allgar and Ian B Holbrook. Annals of Clinical Biochemistry, 2016, 53, 180-181. | 1.6 | 1 |
| 47 | Delayed Ischemic Neurological Deficit after Uneventful Elective Clipping of Unruptured Intracranial Aneurysms. Brain Sciences, 2020, 10, 495. | 2.3 | 1 |
| 48 | The Iatrogenic Development of an Anterior Cerebral Artery Pseudoaneurysm during Lamina Terminalis Fenestrationâ€™Genesis, Diagnosis and Therapy: Lessons Learned. Brain Sciences, 2020, 10, 357. | 2.3 | 1 |
| 49 | Spontaneous Subarachnoid Hemorrhage in a Patient with a Co-Existent Posterior Communicating Artery Aneurysm and Cervical Spine Aneurysm Associated with Ventral Arterio-Venous Fistula. Brain Sciences, 2020, 10, 70. | 2.3 | 1 |
| 50 | Experimental Treatment of Spinal Cord Injuries. Ceska A Slovenska Neurologie A Neurochirurgie, 2015, 78/111, 377-392. | 0.1 | 1 |
| 51 | Conservative management of a ruptured Galassi III middle fossa arachnoid cyst. Ceska A Slovenska Neurologie A Neurochirurgie, 2019, 82/115, 695-696. | 0.1 | 1 |
| 52 | Our article after ten years: Intrathecal midazolam as supplementary analgesia for chronic lumbar pain - 15 years' experience. Anesteziologie A Intenzivni Medicina, 2021, 32, 94-98. | 0.1 | 0 |
| 53 | Computational fluid dynamics of intracranial aneurysms and its potential contribution in clinical practice from a neurosurgeonâ€™™s perspective. Ceska A Slovenska Neurologie A Neurochirurgie, 2018, 81/114, 532-538. | 0.1 | 0 |
| 54 | Anterior choroidal artery aneurysm. Ceska A Slovenska Neurologie A Neurochirurgie, 2019, 82/115, 350-351. | 0.1 | 0 |