

# Ales Hejcl

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50  
papers

1,057  
citations

17  
h-index

31  
g-index

54  
ext. papers

1,181  
ext. citations

3  
avg, IF

3.67  
L-index

#	Paper	IF	Citations
50	Bone marrow stem cells and polymer hydrogels--two strategies for spinal cord injury repair. <i>Cellular and Molecular Neurobiology</i> , <b>2006</b> , 26, 1113-29	4.6	200
49	HPMA-RGD hydrogels seeded with mesenchymal stem cells improve functional outcome in chronic spinal cord injury. <i>Stem Cells and Development</i> , <b>2010</b> , 19, 1535-46	4.4	109
48	Biocompatible hydrogels in spinal cord injury repair. <i>Physiological Research</i> , <b>2008</b> , 57 Suppl 3, S121-S132	2.1	82
47	Acute and delayed implantation of positively charged 2-hydroxyethyl methacrylate scaffolds in spinal cord injury in the rat. <i>Journal of Neurosurgery: Spine</i> , <b>2008</b> , 8, 67-73	2.8	56
46	SIKVAV-modified highly superporous PHEMA scaffolds with oriented pores for spinal cord injury repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 9, 1298-309	4.4	55
45	Validity of primary motor area localization with fMRI versus electric cortical stimulation: a comparative study. <i>Acta Neurochirurgica</i> , <b>2009</b> , 151, 1071-80	3	45
44	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> , <b>2009</b> , 20, 1571-7	4.5	44
43	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> , <b>2018</b> , 106, 1129-1140	5.4	43
42	The use of diffusion tensor images of the corticospinal tract in intrinsic brain tumor surgery: a comparison with direct subcortical stimulation. <i>Neurosurgery</i> , <b>2012</b> , 71, 331-40; discussion 340	3.2	36
41	Low concentration of isoflurane promotes the development of neurogenic pulmonary edema in spinal cord injured rats. <i>Journal of Neurotrauma</i> , <b>2007</b> , 24, 1487-501	5.4	31
40	Highly superporous cholesterol-modified poly(2-hydroxyethyl methacrylate) scaffolds for spinal cord injury repair. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2011</b> , 99, 618-29	5.4	30
39	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> , <b>2013</b> , 22, 2794-805	4.4	24
38	Macroporous hydrogels based on 2-hydroxyethyl methacrylate. Part 5: hydrolytically degradable materials. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2006</b> , 17, 1357-64	4.5	23
37	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> , <b>2019</b> , 28, 400-412	4	20
36	A new model of severe neurogenic pulmonary edema in spinal cord injured rat. <i>Neuroscience Letters</i> , <b>2007</b> , 423, 167-71	3.3	20
35	Modified Methacrylate Hydrogels Improve Tissue Repair after Spinal Cord Injury. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	18
34	Computer-aided diagnosis improves detection of small intracranial aneurysms on MRA in a clinical setting. <i>American Journal of Neuroradiology</i> , <b>2014</b> , 35, 1897-902	4.4	17

33	Piezosurgery prevents brain tissue damage: an experimental study on a new rat model. <i>International Journal of Oral and Maxillofacial Surgery</i> , <b>2011</b> , 40, 840-4	2.9	17
32	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> , <b>2013</b> , 73, 102-15	1	16
31	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> , <b>2018</b> , 29, 89	4.5	14
30	Management of posterior inferior cerebellar artery aneurysms: What factors play the most important role in outcome?. <i>Acta Neurochirurgica</i> , <b>2017</b> , 159, 549-558	3	13
29	Microsurgery and endovascular treatment of posterior inferior cerebellar artery aneurysms. <i>Neurosurgical Review</i> , <b>2016</b> , 39, 159-68; discussion 168	3.9	11
28	Identification of the large descending tracts using diffusion tensor imaging in Chiari III malformation. <i>Childs Nervous System</i> , <b>2010</b> , 26, 867-70	1.7	11
27	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> , <b>2017</b> , 40, 329-338	3.9	10
26	Distant white-matter diffusion changes caused by tumor growth. <i>Journal of Neuroradiology</i> , <b>2013</b> , 40, 71-80	3.1	10
25	Low degree of anesthesia increases the risk of neurogenic pulmonary edema development. <i>Medical Hypotheses</i> , <b>2008</b> , 70, 308-13	3.8	10
24	Chemical angioplasty with spasmolytics for vasospasm after subarachnoid hemorrhage. <i>Acta Neurochirurgica</i> , <b>2017</b> , 159, 713-720	3	9
23	Coefficient of energy balance, a new parameter for basic investigation of the cerebrospinal fluid. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2014</b> , 52, 1009-17	5.9	9
22	Intrathecal midazolam as supplementary analgesia for chronic lumbar pain--15 years experience. <i>Pain Medicine</i> , <b>2011</b> , 12, 1309-15	2.8	9
21	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> , <b>2009</b> , 297, R1111-7	3.2	9
20	Anesthesia type determines risk of cerebral infarction after carotid endarterectomy. <i>Journal of Vascular Surgery</i> , <b>2019</b> , 70, 138-147	3.5	9
19	The effect of a gadolinium-based contrast agent on diffusion tensor imaging. <i>European Journal of Radiology</i> , <b>2012</b> , 81, 1877-82	4.7	6
18	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> , <b>2012</b> , 73, 10-7	1.1	6
17	Anatomy of the supraventricular portion of the pyramidal tract. <i>Acta Neurochirurgica</i> , <b>2012</b> , 154, 1097-104; discussion 1104	3	5
16	Experimental reconstruction of the injured spinal cord. <i>Advances and Technical Standards in Neurosurgery</i> , <b>2011</b> , 65-95		5

15	Carotid-ophthalmic aneurysms-Our results and treatment strategy. <i>British Journal of Neurosurgery</i> , <b>2015</b> , 29, 237-42	1	4
14	Morphological and Hemodynamic Changes during Cerebral Aneurysm Growth. <i>Brain Sciences</i> , <b>2021</b> , 11,	3-4	4
13	Computational Fluid Dynamics of a Fatal Ruptured Anterior Communicating Artery Aneurysm. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , <b>2017</b> , 78, 610-616	1.1	2
12	P ComB1 Aneurysm Formation in a Patient with Bilateral Internal Carotid Occlusion. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , <b>2012</b> , 73, 59-61	1.1	2
11	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. <i>Brain Sciences</i> , <b>2020</b> , 11,	3-4	2
10	Can Aspartate Aminotransferase in the Cerebrospinal Fluid Be a Reliable Predictive Parameter?. <i>Brain Sciences</i> , <b>2020</b> , 10,	3-4	2
9	Selective internal carotid artery cross-clamping increases the specificity of cerebral oximetry for indication of shunting during carotid endarterectomy. <i>Acta Neurochirurgica</i> , <b>2021</b> , 163, 1807-1817	3	2
8	The Iatrogenic Development of an Anterior Cerebral Artery Pseudoaneurysm during Lamina Terminalis Fenestration-Genesis, Diagnosis and Therapy: Lessons Learned. <i>Brain Sciences</i> , <b>2020</b> , 10,	3-4	1
7	Spontaneous Subarachnoid Hemorrhage in a Patient with a Co-Existent Posterior Communicating Artery Aneurysm and Cervical Spine Aneurysm Associated with Ventral Arterio-Venous Fistula. <i>Brain Sciences</i> , <b>2020</b> , 10,	3-4	1
6	Comment on the study Cerebrospinal fluid lactate: measurement of an adult reference interval by Sally D Slack, Paul Turley, Victoria Allgar and Ian B Holbrook. <i>Annals of Clinical Biochemistry</i> , <b>2016</b> , 53, 180-1	2.2	1
5	P Com - P1 Aneurysm Formation in a Patient with Bilateral Internal Carotid Occlusion. <i>Central European Neurosurgery</i> , <b>2011</b> , 72, 001-001		1
4	Elevated intracranial pressure, low cerebral perfusion pressure, and impaired brain metabolism correlate with fatal outcome after severe brain injury. <i>Central European Neurosurgery</i> , <b>2011</b> , 72, 1		1
3	Development of the Cerebrospinal Fluid in Early Stage after Hemorrhage in the Central Nervous System. <i>Life</i> , <b>2021</b> , 11,	3	1
2	Delayed Ischemic Neurological Deficit after Uneventful Elective Clipping of Unruptured Intracranial Aneurysms. <i>Brain Sciences</i> , <b>2020</b> , 10,	3-4	0
1	Our article after ten years: Intrathecal midazolam as supplementary analgesia for chronic lumbar pain - 15 years experience. <i>Anesteziologie A Intenzivni Medicina</i> , <b>2021</b> , 32, 94-98	0	