

# Zsolt Kulcsar

## List of Publications by Year in descending order

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Version: 2024-02-01

77  
papers

3,206  
citations

236833

25  
h-index

155592

55  
g-index

83  
all docs

83  
docs citations

83  
times ranked

2885  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Treatment of Intracranial Aneurysms by Functional Reconstruction of the Parent Artery: The Budapest Experience with the Pipeline Embolization Device. <i>American Journal of Neuroradiology</i> , 2010, 31, 1139-1147.                          | 1.2 | 533       |
| 2  | Intra-Aneurysmal Thrombosis as a Possible Cause of Delayed Aneurysm Rupture after Flow-Diversion Treatment. <i>American Journal of Neuroradiology</i> , 2011, 32, 20-25.  | 1.2 | 461       |
| 3  | Early fatal hemorrhage after endovascular cerebral aneurysm treatment with a flow diverter (SILK-Stent). <i>Neuroradiology</i> , 2011, 53, 37-41.   | 1.1 | 221       |
| 4  | High-Profile Flow Diverter (Silk) Implantation in the Basilar Artery. <i>Stroke</i> , 2010, 41, 1690-1696.  | 1.0 | 197       |
| 5  | Hemodynamics of Cerebral Aneurysm Initiation: The Role of Wall Shear Stress and Spatial Wall Shear Stress Gradient. <i>American Journal of Neuroradiology</i> , 2011, 32, 587-594.  | 1.2 | 185       |
| 6  | Effect of Flow Diverter Porosity on Intraaneurysmal Blood Flow. <i>Klinische Neuroradiologie</i> , 2009, 19, 204-214.   | 0.9 | 134       |
| 7  | Flow diversion treatment: intra-aneurysmal blood flow velocity and WSS reduction are parameters to predict aneurysm thrombosis. <i>Acta Neurochirurgica</i> , 2012, 154, 1827-1834.   | 0.9 | 94        |
| 8  | Effect of Flow Diversion Treatment on Very Small Ruptured Aneurysms. <i>Neurosurgery</i> , 2010, 67, 789-793.   | 0.6 | 91        |
| 9  | Penumbra System: A Novel Mechanical Thrombectomy Device for Large-Vessel Occlusions in Acute Stroke. <i>American Journal of Neuroradiology</i> , 2010, 31, 628-633.   | 1.2 | 84        |
| 10 | Combined Use of Pulsed Arterial Spin-Labeling and Susceptibility-Weighted Imaging in Stroke at 3T. <i>European Neurology</i> , 2010, 64, 286-296.   | 0.6 | 73        |
| 11 | Intra-Aneurysmal Pressure and Flow Changes Induced by Flow Diverters: Relation to Aneurysm Size and Shape. <i>American Journal of Neuroradiology</i> , 2013, 34, 816-822.   | 1.2 | 71        |
| 12 | Haptoglobin administration into the subarachnoid space prevents hemoglobin-induced cerebral vasospasm. <i>Journal of Clinical Investigation</i> , 2019, 129, 5219-5235.   | 3.9 | 57        |
| 13 | Direct thromboaspiration efficacy for mechanical thrombectomy is related to the angle of interaction between the aspiration catheter and the clot. <i>Journal of NeuroInterventional Surgery</i> , 2020, 12, 396-400.                           | 2.0 | 51        |
| 14 | Training Guidelines for Endovascular Ischemic Stroke Intervention: An International Multi-Society Consensus Document. <i>American Journal of Neuroradiology</i> , 2016, 37, E31-E34.  | 1.2 | 50        |
| 15 | Impact of aneurysmal geometry on intraaneurysmal flow: a computerized flow simulation study. <i>Neuroradiology</i> , 2008, 50, 411-421.   | 1.1 | 49        |
| 16 | Incidence and Outcome of Aneurysmal Subarachnoid Hemorrhage. <i>Stroke</i> , 2021, 52, 344-347.   | 1.0 | 49        |
| 17 | The POST trial: initial post-market experience of the Penumbra system: revascularization of large vessel occlusion in acute ischemic stroke in the United States and Europe. <i>Journal of NeuroInterventional Surgery</i> , 2018, 10, i35-i38. | 2.0 | 48        |
| 18 | Flow Diverters for Intracranial Aneurysms. <i>Stroke</i> , 2019, 50, 3471-3480.   | 1.0 | 47        |

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|----|---|-----|-----------|
| 19 | Endovascular treatment of intracranial aneurysms with parent vessel reconstruction using balloon and self expandable stents. <i>Acta Neurochirurgica</i> , 2006, 148, 711-723.  | 0.9 | 41        |
| 20 | Dynamic MR angiography (MRA) of spinal vascular diseases at 3T. <i>European Radiology</i> , 2010, 20, 2491-2495.  | 2.3 | 39        |
| 21 | Unruptured intracranial aneurysm follow-up and treatment after morphological change is safe: observational study and systematic review. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, 1277-1282.   | 0.9 | 39        |
| 22 | The Catch Mini stent retriever for mechanical thrombectomy in distal intracranial occlusions. <i>Journal of Neuroradiology</i> , 2018, 45, 305-309.   | 0.6 | 37        |
| 23 | Continuous thrombolysis and repeated thrombectomy with the Penumbra System <sup>®</sup> in a child with hemorrhagic sinus thrombosis: technical note. <i>Acta Neurochirurgica</i> , 2010, 152, 911-916.   | 0.9 | 32        |
| 24 | European Society of Minimally Invasive Neurological Therapy (ESMINT) recommendations for optimal interventional neurovascular management in the COVID-19 era. <i>Journal of NeuroInterventional Surgery</i> , 2020, 12, 542-544.  | 2.0 | 32        |
| 25 | Geometrical deployment for braided stent. <i>Medical Image Analysis</i> , 2016, 30, 85-94.  | 7.0 | 30        |
| 26 | Neuroform stent-assisted treatment of intracranial aneurysms: long-term follow-up study of aneurysm recurrence and in-stent stenosis rates. <i>Neuroradiology</i> , 2013, 55, 459-465.  | 1.1 | 28        |
| 27 | Hemodynamics of Focal Versus Global Growth of Small Cerebral Aneurysms. <i>Clinical Neuroradiology</i> , 2019, 29, 285-293.   | 1.0 | 26        |
| 28 | COVID-19 and neurointerventional service worldwide: a survey of the European Society of Minimally Invasive Neurological Therapy (ESMINT), the Society of NeuroInterventional Surgery (SNIS), the Sociedad Iberolatinoamericana de Neuroradiología Diagnostica y Terapeutica (SILAN), the Society of Vascular and Interventional Neurology (SVIN), and the World Federation of Interventional and Therapeutic Neuroradiology (WFITN). <i>Journal of NeuroInterventional Surgery</i> , 2020, 12, 726-730. | 2.0 | 26        |
| 29 | Methodologies to assess blood flow in cerebral aneurysms: Current state of research and perspectives. <i>Journal of Neuroradiology</i> , 2009, 36, 270-277.   | 0.6 | 22        |
| 30 | Evaluation of perfusion CT and TIBI grade in acute stroke for predicting thrombolysis benefit and clinical outcome. <i>Journal of Neuroradiology</i> , 2009, 36, 131-137.   | 0.6 | 21        |
| 31 | Deep learning based detection of intracranial aneurysms on digital subtraction angiography: A feasibility study. <i>Neuroradiology Journal</i> , 2020, 33, 311-317.   | 0.6 | 20        |
| 32 | Virtual-versus-Real Implantation of Flow Diverters: Clinical Potential and Influence of Vascular Geometry. <i>American Journal of Neuroradiology</i> , 2016, 37, 2079-2086.   | 1.2 | 19        |
| 33 | Use of the Enterprise <sup>®</sup> Intracranial Stent for Revascularization of Large Vessel Occlusions in Acute Stroke. <i>Clinical Neuroradiology</i> , 2010, 20, 54-60.   | 1.0 | 15        |
| 34 | A novel, non-adhesive, precipitating liquid embolic implant with intrinsic radiopacity: feasibility and safety animal study. <i>European Radiology</i> , 2017, 27, 1248-1256.   | 2.3 | 15        |
| 35 | Safety and efficacy of balloon angioplasty in symptomatic intracranial stenosis: A systematic review and meta-analysis. <i>Journal of Neuroradiology</i> , 2020, 47, 27-32.   | 0.6 | 15        |
| 36 | Ultrafast Intracranial Vessel Imaging With Non-Cartesian Spiral 3-Dimensional Time-of-Flight Magnetic Resonance Angiography at 1.5 T. <i>Investigative Radiology</i> , 2020, 55, 293-303.   | 3.5 | 15        |

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|----|--|-----|-----------|
| 37 | Training guidelines for endovascular stroke intervention: an international multi-society consensus document. <i>Neuroradiology</i> , 2016, 58, 537-541.  | 1.1 | 14        |
| 38 | Predictors of Occurrence and Anatomic Distribution of Multiple Aneurysms in Patients with Aneurysmal Subarachnoid Hemorrhage. <i>World Neurosurgery</i> , 2018, 111, e199-e205.  | 0.7 | 14        |
| 39 | Arterial spin labeling shows cortical collateral flow in the endovascular treatment of vasospasm after post-traumatic subarachnoid hemorrhage. <i>Journal of Neuroradiology</i> , 2009, 36, 158-161.   | 0.6 | 13        |
| 40 | CT imaging selection in acute stroke. <i>European Journal of Radiology</i> , 2017, 96, 153-161.  | 1.2 | 13        |
| 41 | Multiple Coaxial Catheter System for Reliable Access in Interventional Stroke Therapy. <i>CardioVascular and Interventional Radiology</i> , 2010, 33, 1205-1209.   | 0.9 | 12        |
| 42 | Pretherapeutic characterization of the clot in acute stroke. <i>Journal of Neuroradiology</i> , 2016, 43, 163-166.   | 0.6 | 11        |
| 43 | Clipping of ruptured intracranial aneurysms in a hybrid room environment—a case-control study. <i>Acta Neurochirurgica</i> , 2017, 159, 1291-1298.   | 0.9 | 11        |
| 44 | Experimental evaluation of direct thromboaspiration efficacy according to the angle of interaction between the aspiration catheter and the clot. <i>Journal of NeuroInterventional Surgery</i> , 2021, 13, 1152-1156.  | 2.0 | 10        |
| 45 | Flow augmentation STA-MCA bypass evaluation for patients with acute stroke and unilateral large vessel occlusion: a proposal for an urgent bypass flowchart. <i>Journal of Neurosurgery</i> , 2022, 137, 1047-1055.  | 0.9 | 10        |
| 46 | Vascular Imaging Techniques of the Spinal Cord. <i>Seminars in Ultrasound, CT and MRI</i> , 2017, 38, 143-152.   | 0.7 | 9         |
| 47 | Spontaneous appearance of de novo intracranial arteriovenous malformation in hepatic cirrhosis. <i>Neurochirurgie</i> , 2019, 65, 393-396.   | 0.6 | 8         |
| 48 | Benralizumab in eosinophilic granulomatosis with polyangiitis complicated by <i>Staphylococcus aureus</i> sepsis. <i>Clinical Immunology</i> , 2021, 222, 108574.  | 1.4 | 8         |
| 49 | Can clot density predict recanalization in acute ischemic stroke treated with intravenous tPA?. <i>Clinical and Translational Neuroscience</i> , 2017, 1, 2514183X1771831.   | 0.4 | 7         |
| 50 | Clipping of Ruptured Aneurysm of Lateral Spinal Artery Associated with Anastomosis to Distal Posterior Inferior Cerebellar Artery: A Case Report. <i>World Neurosurgery</i> , 2018, 117, 186-189.  | 0.7 | 7         |
| 51 | The Challenging Clinical Management of Patients with Cranial Dural Arteriovenous Fistula and Secondary Parkinson's Syndrome: Pathophysiology and Treatment Options. <i>Cerebrovascular Diseases Extra</i> , 2020, 10, 124-138.                               | 0.5 | 6         |
| 52 | Hemodynamic Imaging in Cerebral Diffuse Glioma—Part A: Concept, Differential Diagnosis and Tumor Grading. <i>Cancers</i> , 2022, 14, 1432.   | 1.7 | 6         |
| 53 | <sc>Magnetic Resonance Imaging</sc> or <sc>Computed Tomography</sc> for Suspected Acute Stroke: Association of Admission Image Modality with Acute Recanalization Therapies, Workflow Metrics, and Outcomes. <i>Annals of Neurology</i> , 2022, 92, 184-194. | 2.8 | 6         |
| 54 | A new-generation, low-permeability flow diverting device for treatment of saccular aneurysms. <i>European Radiology</i> , 2014, 24, 12-18.   | 2.3 | 5         |

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|----|---|-----|-----------|
| 55 | Carotid artery stenting. <i>Heart</i> , 2016, 102, 1059-1069.   | 1.2 | 5         |
| 56 | Subarachnoid Hemorrhage Due to Flow-Related Dissection of the Posterior-Inferior Cerebellar Artery Associated with a Distal Arteriovenous Malformation. <i>World Neurosurgery</i> , 2019, 125, 44-48.   | 0.7 | 5         |
| 57 | Safety and efficacy of the Silk flow diverter: Insight from the DIVERSION prospective cohort study. <i>Journal of Neuroradiology</i> , 2021, 48, 293-298.   | 0.6 | 5         |
| 58 | Association of single and multiple aneurysms with tobacco abuse: an @neurIST risk analysis. <i>Neurosurgical Focus</i> , 2019, 47, E9.  | 1.0 | 5         |
| 59 | Hemodynamic Imaging in Cerebral Diffuse Glioma—Part B: Molecular Correlates, Treatment Effect Monitoring, Prognosis, and Future Directions. <i>Cancers</i> , 2022, 14, 1342.  | 1.7 | 5         |
| 60 | Vertebral artery dissection as an extremely rare cause of spinal epidural hematoma: case report and review of the literature. <i>Acta Neurochirurgica</i> , 2009, 151, 1319-1323.   | 0.9 | 4         |
| 61 | Safety and effectiveness of large volume coils in the treatment of small aneurysms. <i>Journal of NeuroInterventional Surgery</i> , 2016, 8, 1260-1263.   | 2.0 | 4         |
| 62 | Outcome Comparison Between Surgically Treated Brain Arteriovenous Malformation Hemorrhage and Spontaneous Intracerebral Hemorrhage. <i>World Neurosurgery</i> , 2020, 139, e807-e811.   | 0.7 | 4         |
| 63 | Acute Stenting and Concomitant Tirofiban Administration for the Endovascular Treatment of Acute Ischemic Stroke Related to Intracranial Artery Dissections: A Single Center Experience and Systematic Review of the Literature. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2021, 30, 105891. | 0.7 | 4         |
| 64 | EndoVascular treatment and Thrombolysis for Ischemic Stroke Patients (EVA-TRISP) registry: basis and methodology of a pan-European prospective ischaemic stroke revascularisation treatment registry. <i>BMJ Open</i> , 2021, 11, e042211.  | 0.8 | 4         |
| 65 | Feasibility of glioblastoma tissue response mapping with physiologic BOLD imaging using precise oxygen and carbon dioxide challenge. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2022, 35, 29-44.   | 1.1 | 4         |
| 66 | Trans-venous embolization of a basal ganglia ruptured arteriovenous malformation with open surgical arterial control: A hybrid technique. <i>Journal of Neuroradiology</i> , 2018, 45, 202-205.   | 0.6 | 3         |
| 67 | Neurointerventional staffing: The next frontier. <i>Journal of Neuroradiology</i> , 2017, 44, 231-233.  | 0.6 | 2         |
| 68 | Delayed mesencephalic venous infarction after endovascular treatment of a giant aneurysm of the posterior cerebral artery: Case report and anatomical review. <i>Interventional Neuroradiology</i> , 2020, 26, 593-597.   | 0.7 | 1         |
| 69 | European Perspective on the German System for Thrombectomy in Stroke Patients. <i>Clinical Neuroradiology</i> , 2021, 31, 7-9.  | 1.0 | 1         |
| 70 | Increase in contrast-enhancing volume of irradiated meningiomas reflects tumor progression and not pseudoprogession. <i>Neuro-Oncology</i> , 2021, 23, 1612-1613.   | 0.6 | 1         |
| 71 | Endovascular treatment of acute ischemic stroke. <i>Journal of Neurosurgical Sciences</i> , 2021, 65, 259-268.  | 0.3 | 1         |
| 72 | Rare angioproliferative tumors mimicking aggressive spinal hemangioma with epidural expansion. <i>Ideggyogyaszati Szemle</i> , 2012, 65, 42-7.  | 0.4 | 1         |

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|----|--|-----|-----------|
| 73 | Is Catheter Angiography Still Necessary for the Follow-Up of Spinal Malformations after Treatment?. American Journal of Neuroradiology, 2017, 38, E29-E29.   | 1.2 | 0         |
| 74 | Single-hole, ruptured parenchymal arteriovenous fistula of the mesencephalon : Not known vascular malformation of the brain or a posthemorrhagic entity?. Ideggyogyaszati Szemle, 2021, 74, 126-128. | 0.4 | 0         |
| 75 | Functional Imaging of Bow Hunter's Syndrome. Annals of Neurology, 2021, 89, 1051-1052.   | 2.8 | 0         |
| 76 | Blood Pressure Variability Indices for Outcome Prediction After Thrombectomy in Stroke by Using High-Resolution Data. Neurocritical Care, 0, , .   | 1.2 | 0         |
| 77 | More pronounced hemodynamic alterations in patients with brain arteriovenous malformationâ€‘associated epilepsy. Neurosurgical Focus, 2022, 53, E4.  | 1.0 | 0         |