Gary K Steinberg

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/657439/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Establishing a Data Science Unit in an Academic Medical Center: An Illustrative Model. Academic Medicine, 2022, 97, 69-75.	0.8	5
2	Radiosurgery as a microsurgical adjunct: outcomes after microsurgical resection of intracranial arteriovenous malformations previously treated with stereotactic radiosurgery. Journal of Neurosurgery, 2022, 136, 185-196.	0.9	0
3	Age-dependent Intracranial Artery Morphology in Healthy Children. Clinical Neuroradiology, 2022, 32, 49-56.	1.0	1
4	Surgical treatment of brainstem cavernous malformations: an international Delphi consensus. Journal of Neurosurgery, 2022, 136, 1220-1230.	0.9	7
5	Application of FLOW 800 in extracranial-to-intracranial bypass surgery for moyamoya disease. Neurosurgical Focus Video, 2022, 6, V16.	0.1	0
6	Safety and Efficacy of Induced Hypertension and Hypervolemia in Preventing Neurologic Complications After Combined Direct and Indirect Bypass in Hemorrhagic-Onset Moyamoya Disease. World Neurosurgery, 2022, 160, e381-e387.	0.7	4
7	Ten-year experience with laparoscopic pedicled omental flap for cerebral revascularization in patients with Moyamoya disease. Journal of Pediatric Surgery, 2022, 57, 710-715.	0.8	3
8	Ten-year safety of pluripotent stem cell transplantation in acute thoracic spinal cord injury. Journal of Neurosurgery: Spine, 2022, , 1-10.	0.9	6
9	Acetazolamide-Challenged Arterial Spin Labeling Detects Augmented Cerebrovascular Reserve After Surgery for Moyamoya. Stroke, 2022, 53, 1354-1362.	1.0	6
10	Moyamoya disease: diagnosis and interventions. Lancet Neurology, The, 2022, 21, 747-758.	4.9	102
11	A phase 1/2a dose-escalation study of oligodendrocyte progenitor cells in individuals with subacute cervical spinal cord injury. Journal of Neurosurgery: Spine, 2022, 37, 812-820.	0.9	14
12	Optogenetic Stimulation Reduces Neuronal Nitric Oxide Synthase Expression After Stroke. Translational Stroke Research, 2021, 12, 347-356.	2.3	12
13	Staged Surgical Resection of Brain Arteriovenous Malformations. World Neurosurgery, 2021, 146, e925-e930.	0.7	3
14	Efficacy and safety of embolization of dural arteriovenous fistulas via the ophthalmic artery. Interventional Neuroradiology, 2021, 27, 444-450.	0.7	6
15	Cell Therapy for Chronic TBI. Neurology, 2021, 96, .	1.5	41
16	Basal ganglia cavernous malformations: case series and systematic review of surgical management and long-term outcomes. Journal of Neurosurgery, 2021, 135, 1113-1121.	0.9	1
17	Unique Subtype of Microglia in Degenerative Thalamus After Cortical Stroke. Stroke, 2021, 52, 687-698.	1.0	38
18	Microsurgical Resection of an Orbital Arteriovenous Malformation With Intraoperative Digital Subtraction Angiography. Ophthalmic Plastic and Reconstructive Surgery, 2021, 37, S141-S144.	0.4	1

#	Article	IF	CITATIONS
19	Commentary: Direct vs Indirect Revascularization in a North American Cohort of Moyamoya Disease. Neurosurgery, 2021, 89, E114-E115.	0.6	2
20	Direct versus indirect bypass procedure for the treatment of ischemic moyamoya disease: results of an individualized selection strategy. Journal of Neurosurgery, 2021, 134, 1578-1589.	0.9	19
21	Patient-specific virtual reality technology for complex neurosurgical cases: illustrative cases. Journal of Neurosurgery Case Lessons, 2021, 1, .	0.1	2
22	Early Experience With Virtual and Synchronized Augmented Reality Platform for Preoperative Planning and Intraoperative Navigation: A Case Series. Operative Neurosurgery, 2021, 21, 189-196.	0.4	22
23	Brain-wide neural dynamics of poststroke recovery induced by optogenetic stimulation. Science Advances, 2021, 7, .	4.7	8
24	A neurovascular-unit-on-a-chip for the evaluation of the restorative potential of stem cell therapies for ischaemic stroke. Nature Biomedical Engineering, 2021, 5, 847-863.	11.6	62
25	Stem Cells for Aging-Related Disorders. Stem Cell Reviews and Reports, 2021, 17, 2054-2058.	1.7	4
26	Increased Autoimmunity in Individuals With Down Syndrome and Moyamoya Disease. Frontiers in Neurology, 2021, 12, 724969.	1.1	11
27	Introduction. Translational research advances in the evaluation and management of moyamoya disease. Neurosurgical Focus, 2021, 51, E1.	1.0	2
28	Direct brainstem somatosensory evoked potentials for cavernous malformations. Journal of Neurosurgery, 2021, , 1-7.	0.9	1
29	Early Diffusion Magnetic Resonance Imaging Changes in Normal-Appearing Brain in Pediatric Moyamoya Disease. Neurosurgery, 2020, 86, 530-537.	0.6	9
30	Functional Outcomes After Revascularization Procedures in Patients With Hemorrhagic Moyamoya Disease. Neurosurgery, 2020, 86, 257-265.	0.6	19
31	Validation and Application for the Berlin Grading System of Moyamoya Disease in Adult Patients. Neurosurgery, 2020, 86, 203-212.	0.6	25
32	Utility of a Quantitative Approach Using Diffusion Tensor Imaging for Prognostication Regarding Motor and Functional Outcomes in Patients With Surgically Resected Deep Intracranial Cavernous Malformations. Neurosurgery, 2020, 86, 665-675.	0.6	5
33	Predicting PET Cerebrovascular Reserve with Deep Learning by Using Baseline MRI: A Pilot Investigation of a Drug-Free Brain Stress Test. Radiology, 2020, 296, 627-637.	3.6	24
34	Clinical Course of Unilateral Moyamoya Disease. Neurosurgery, 2020, 87, 1262-1268.	0.6	19
35	Incidental De Novo Cerebral Microhemorrhages are Predictive of Future Symptomatic Macrohemorrhages After Surgical Revascularization in Moyamoya Disease. Neurosurgery, 2020, 88, 74-81.	0.6	3
36	In Reply: Validation and Application for the Berlin Grading System of Moyamoya Disease in Adult Patients. Neurosurgery, 2020, 87, E265-E265.	0.6	0

#	Article	IF	CITATIONS
37	In Reply to the Letter to the Editor Regarding "Contralateral Vasospasm in an Uncomplicated Elective Anterior Communicating Artery Aneurysm Clipping― World Neurosurgery, 2020, 142, 540.	0.7	0
38	Revisiting Stem Cell-Based Clinical Trials for Ischemic Stroke. Frontiers in Aging Neuroscience, 2020, 12, 575990.	1.7	18
39	Translamina Terminalis Approach to Laser-Assisted Resection of Thalamomesencephalic Cavernous Malformation. World Neurosurgery, 2020, 139, 603.	0.7	0
40	Contralateral Vasospasm in an Uncomplicated Elective Anterior Communicating Artery Aneurysm Clipping. World Neurosurgery, 2020, 138, 214-217.	0.7	5
41	Inflammatory Responses in the Secondary Thalamic Injury After Cortical Ischemic Stroke. Frontiers in Neurology, 2020, 11, 236.	1.1	22
42	Initial experience with the Scepter Mini dual-lumen balloon for transophthalmic artery embolization of anterior cranial fossa dural arteriovenous fistulae. Journal of NeuroInterventional Surgery, 2020, 12, 1132-1136.	2.0	29
43	Minimally invasive foramen magnum durectomy and obexostomy for treatment of craniocervical junction–related syringomyelia in adults: case series and midterm follow-up. Journal of Neurosurgery: Spine, 2020, 33, 148-157.	0.9	3
44	Abstract TMP118: Clinical Outcomes of Surgical Resection After Stereotactic Radiosurgery Among Patients With Cerebral Arteriovenous Malformations. Stroke, 2020, 51, .	1.0	0
45	A Review of Magnetic Particle Imaging and Perspectives on Neuroimaging. American Journal of Neuroradiology, 2019, 40, 206-212.	1.2	133
46	Cerebrovascular events after surgery versus conservative therapy for moyamoya disease: a meta-analysis. Acta Neurologica Belgica, 2019, 119, 305-313.	0.5	19
47	Consensus Paper: Experimental Neurostimulation of the Cerebellum. Cerebellum, 2019, 18, 1064-1097.	1.4	120
48	Meningeal Mast Cells as Key Effectors of Stroke Pathology. Frontiers in Cellular Neuroscience, 2019, 13, 126.	1.8	22
49	Surgical Treatment of Recurrent Previously Coiled and/or Stent-Coiled Intracerebral Aneurysms: A Single-Center Experience in a Series of 75 Patients. World Neurosurgery, 2019, 124, e649-e658.	0.7	6
50	Arterial spin-labeling cerebral perfusion changes after revascularization surgery in pediatric moyamoya disease and syndrome. Journal of Neurosurgery: Pediatrics, 2019, 23, 486-492.	0.8	19
51	Long-term follow up data on difficult to treat intracranial arteriovenous malformations treated with the CyberKnife. Journal of Clinical Neuroscience, 2019, 61, 120-123.	0.8	8
52	Pathogenesis of aneurysms on major vessels in moyamoya disease and management outcome. Journal of Clinical Neuroscience, 2019, 61, 219-224.	0.8	22
53	Milestones in stereotactic radiosurgery for the central nervous system. Journal of Clinical Neuroscience, 2019, 59, 12-19.	0.8	9
54	Contralateral acute vascular occlusion following revascularization surgery for moyamoya disease. Journal of Neurosurgery, 2019, 131, 1702-1708.	0.9	8

#	Article	IF	CITATIONS
55	Utility of Diffusion Tensor Imaging Tractography in Evaluating Motor Examination and Functional Outcomes in Patients with Surgically Resected Deep Intracranial Cavernous Malformations: A Preliminary Model. , 2019, 80, .		0
56	Introduction: Resection of Cavernous Malformations. Neurosurgical Focus Video, 2019, 1, Intro.	0.1	0
57	Reduced Intravoxel Incoherent Motion Microvascular Perfusion Predicts Delayed Cerebral Ischemia and Vasospasm After Aneurysm Rupture. Stroke, 2018, 49, 741-745.	1.0	16
58	Stem Cell–Based Immunomodulation After Stroke. Stroke, 2018, 49, 1563-1570.	1.0	36
59	Nurse Telephonic Triage Service for After-hour Patient Calls in Neurosurgery. Annals of Surgery, 2018, 267, e67-e68.	2.1	1
60	Long-Term Effectiveness of Gross-Total Resection for Symptomatic Spinal Cord Cavernous Malformations. Neurosurgery, 2018, 83, 1201-1208.	0.6	21
61	RNA-Sequencing Analysis Revealed a Distinct Motor Cortex Transcriptome in Spontaneously Recovered Mice After Stroke. Stroke, 2018, 49, 2191-2199.	1.0	39
62	Engineered stem cell mimics to enhance stroke recovery. Biomaterials, 2018, 178, 63-72.	5.7	26
63	Direct Versus Indirect Bypass for Moyamoya Disease. Neurosurgery Clinics of North America, 2017, 28, 361-374.	0.8	42
64	Neurocognitive Performance After Cerebral Revascularization in Adult Moyamoya Disease. Stroke, 2017, 48, 1514-1517.	1.0	47
65	Optogenetic neuronal stimulation of the lateral cerebellar nucleus promotes persistent functional recovery after stroke. Scientific Reports, 2017, 7, 46612.	1.6	59
66	Strategies for and Outcome of Repeat Revascularization Surgery for Moyamoya Disease: An American Institutional Series. Neurosurgery, 2017, 81, 852-859.	0.6	19
67	Measuring Cerebral Blood Flow in Moyamoya Angiopathy by Quantitative Magnetic Resonance Angiography Noninvasive Optimal Vessel Analysis. Neurosurgery, 2017, 81, 921-927.	0.6	19
68	Ipsilateral Pupillary Dilation Following Carotid Endarterectomy: A Temporary and Benign Phenomenon. Neurosurgery, 2017, 80, E239-E244.	0.6	2
69	Disrupting the CD47-SIRPα anti-phagocytic axis by a humanized anti-CD47 antibody is an efficacious treatment for malignant pediatric brain tumors. Science Translational Medicine, 2017, 9, .	5.8	306
70	Patient Outcomes and Cerebral Infarction after Ruptured Anterior Communicating Artery Aneurysm Treatment. American Journal of Neuroradiology, 2017, 38, 2119-2125.	1.2	27
71	Comparison of Porcine and Bovine Collagen Dural Substitutes in Posterior Fossa Decompression for Chiari I Malformation in Adults. World Neurosurgery, 2017, 108, 33-40.	0.7	23
72	Management of Arteriovenous Malformations Associated with Developmental Venous Anomalies: A Literature Review and Report of 2 Cases. World Neurosurgery, 2017, 106, 563-569.	0.7	11

#	Article	IF	CITATIONS
73	Electrical preconditioning of stem cells with a conductive polymer scaffold enhances stroke recovery. Biomaterials, 2017, 142, 31-40.	5.7	91
74	Editorial: Direct versus indirect bypass for moyamoya disease: ongoing controversy. Journal of Neurosurgery, 2017, 126, 1520-1522.	0.9	15
75	High-Resolution Microfluidic Single-Cell Transcriptional Profiling Reveals Clinically Relevant Subtypes among Human Stem Cell Populations Commonly Utilized in Cell-Based Therapies. Frontiers in Neurology, 2016, 7, 41.	1.1	12
76	Personalized Medicine in Cerebrovascular Neurosurgery: Precision Neurosurgical Management of Cerebral Aneurysms and Subarachnoid Hemorrhage. Frontiers in Surgery, 2016, 3, 34.	0.6	7
77	Quality of Life in Pediatric Moyamoya Disease. Pediatric Neurology, 2016, 63, 60-65.	1.0	11
78	Multiple Subsets of Brain Tumor Initiating Cells Coexist in Glioblastoma. Stem Cells, 2016, 34, 1702-1707.	1.4	17
79	Optogenetic modulation in stroke recovery. Neurosurgical Focus, 2016, 40, E6.	1.0	16
80	Laparoscopic harvesting of omental pedicle flap for cerebral revascularization in children with moyamoya disease. Journal of Pediatric Surgery, 2016, 51, 592-597.	0.8	15
81	The strokes that killed Churchill, Roosevelt, and Stalin. Neurosurgical Focus, 2016, 41, E7.	1.0	8
82	Neurorestoration after stroke. Neurosurgical Focus, 2016, 40, E2.	1.0	72
83	Enhanced phasic GABA inhibition during the repair phase of stroke: a novel therapeutic target. Brain, 2016, 139, 468-480.	3.7	94
84	Management of moyamoya syndrome in patients with Noonan syndrome. Journal of Clinical Neuroscience, 2016, 28, 107-111.	0.8	12
85	Acute Preoperative Infarcts and Poor Cerebrovascular Reserve Are Independent Risk Factors for Severe Ischemic Complications following Direct Extracranial-Intracranial Bypass for Moyamoya Disease. American Journal of Neuroradiology, 2016, 37, 228-235.	1.2	31
86	Impaired Arm Function and Finger Dexterity in a Nonhuman Primate Model of Stroke. Stroke, 2016, 47, 1109-1116.	1.0	23
87	Optogenetic Approaches to Target Specific Neural Circuits in Post-stroke Recovery. Neurotherapeutics, 2016, 13, 325-340.	2.1	34
88	An Alternative Display Could Lead to Earlier Diagnosis of Intracerebral Pathology with a Hemedex Flow Probe In Situ. World Neurosurgery, 2015, 84, 2079.e1-2079.e5.	0.7	0
89	Novel Stroke Therapeutics: Unraveling Stroke Pathophysiology and Its Impact on Clinical Treatments. Neuron, 2015, 87, 297-309.	3.8	296
90	Use of thromboelastography to tailor dual-antiplatelet therapy in patients undergoing treatment of intracranial aneurysms with the Pipeline embolization device. Journal of NeuroInterventional Surgery, 2015, 7, 425-430.	2.0	25

#	Article	IF	CITATIONS
91	<i>RNF213</i> Rare Variants in an Ethnically Diverse Population With Moyamoya Disease. Stroke, 2014, 45, 3200-3207.	1.0	129
92	Acute Lung Injury in Patients with Subarachnoid Hemorrhage: A Nationwide Inpatient Sample Study. World Neurosurgery, 2014, 82, e235-e241.	0.7	67
93	Stem Cells as an Emerging Paradigm in Stroke 3. Stroke, 2014, 45, 634-639.	1.0	141
94	Optogenetic neuronal stimulation promotes functional recovery after stroke. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12913-12918.	3.3	169
95	Evidence that Meningeal Mast Cells Can Worsen Stroke Pathology in Mice. American Journal of Pathology, 2014, 184, 2493-2504.	1.9	55
96	Temporary Artery Occlusion in Ruptured Aneurysms. World Neurosurgery, 2014, 82, 43-45.	0.7	12
97	Burr Holes for Moyamoya. World Neurosurgery, 2014, 81, 29-31.	0.7	5
98	Temporary Clipping for Unruptured Aneurysms. World Neurosurgery, 2014, 82, 309-311.	0.7	2
99	Stepwise Recruitment of Transcellular and Paracellular Pathways Underlies Blood-Brain Barrier Breakdown in Stroke. Neuron, 2014, 82, 603-617.	3.8	489
100	Controversy: Clipping of Asymptomatic Intracranial Aneurysm That is <7 mm: Yes. Stroke, 2013, 44, S97-S99.	1.0	7
101	Abstract WP92: Human Neural Stem Cells Enhance Synaptic Structural Remodeling in the Ischemic Brain Stroke, 2013, 44, .	1.0	0
102	Abstract TP105: Increaed GABA _A Mediated Synaptic Activity and Structural Remodeling in Peri-infarct Cortex Layer 5 in the Post-stroke Rodent Brain Stroke, 2013, 44, .	1.0	0
103	Intraoperative Blood Flow Analysis of Direct Revascularization Procedures in Patients with Moyamoya Disease. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 262-274.	2.4	65
104	Loss of BRCC3 Deubiquitinating Enzyme Leads to Abnormal Angiogenesis and Is Associated with Syndromic Moyamoya. American Journal of Human Genetics, 2011, 88, 718-728.	2.6	109
105	Neurosurgical Advances in the Treatment of Moyamoya Disease. Stroke, 2011, 42, 3304-3310.	1.0	126
106	Cerebral Revascularization for Moyamoya Disease. , 2011, , 185-191.		1
107	Direct Bypass Techniques for the Treatment of Pediatric Moyamoya Disease. Neurosurgery Clinics of North America, 2010, 21, 565-573.	0.8	28
108	Quantitative hemodynamic studies in moyamoya disease. Neurosurgical Focus, 2009, 26, E5.	1.0	161

#	Article	IF	CITATIONS
109	Clinical outcome after 450 revascularization procedures for moyamoya disease. Journal of Neurosurgery, 2009, 111, 927-935.	0.9	411
110	EFFECT OF MOYAMOYA DISEASE ON NEUROPSYCHOLOGICAL FUNCTIONING IN ADULTS. Neurosurgery, 2008, 62, 1048-1052.	0.6	15
111	Adherent Self-Renewable Human Embryonic Stem Cell-Derived Neural Stem Cell Line: Functional Engraftment in Experimental Stroke Model. PLoS ONE, 2008, 3, e1644.	1.1	177
112	MULTIMODALITY TREATMENT OF GIANT INTRACRANIAL ARTERIOVENOUS MALFORMATIONS. Neurosurgery, 2007, 61, 1-13.	0.6	118
113	Conditions of protection by hypothermia and effects on apoptotic pathways in a model of permanent middle cerebral artery occlusion. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S474-S474.	2.4	3
114	Visual Field Preservation After Curative Multi-Modality Treatment of Occipital Lobe Arteriovenous Malformations. Neurosurgery, 2005, 57, 655-667.	0.6	4
115	Translating Experimental Stroke Research into Clinical Therapy. Nosotchu, 2005, 27, 515-515.	0.0	0
116	PI-3/AKT kinase pathway contributes to neuroprotective effect of hypothermia against cerebral ischemia in rats. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S472-S472.	2.4	0
117	Delivery of a deltaPKC inhibitor peptide improves stroke survival in a rat model of hypertension, and increases cerebral blood flow following transient focal ischemia in normotensive rats. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S184-S184.	2.4	0
118	Calbindin D28K Overexpression Protects Striatal Neurons From Transient Focal Cerebral Ischemia. Stroke, 2001, 32, 1028-1035.	1.0	115
119	Overexpression of HSP72 after Induction of Experimental Stroke Protects Neurons from Ischemic Damage. Journal of Cerebral Blood Flow and Metabolism, 2001, 21, 1303-1309.	2.4	149
120	Gene Therapy for Treatment of Cerebral Ischemia Using Defective Herpes Simplex Viral Vectors. Annals of the New York Academy of Sciences, 2001, 939, 340-357.	1.8	26
121	Reply. Muscle and Nerve, 2000, 23, 1446-1446.	1.0	3
122	Outcome of Angioplasty for Atherosclerotic Intracranial Stenosis. Stroke, 1999, 30, 1065-1069.	1.0	198
123	Intraoperative electrical stimulation for identification of cranial nerve nuclei. Muscle and Nerve, 1999, 22, 1538-1543.	1.0	21
124	Remote-Rendered 3D CT Angiography (3DCTA) as an Intraoperative Aid in Cerebrovascular Neurosurgery. Computer Aided Surgery, 1999, 4, 256-263.	1.8	12
125	Long-term Outcomes after Carotid Stent Placement for Treatment of Carotid Artery Dissection. Neurosurgery, 1999, 45, 1368-1374.	0.6	149
126	Direct and Combined Revascularization in Pediatric Moyamoya Disease. Neurosurgery, 1999, 45, 50-60.	0.6	106

#	Article	IF	CITATIONS
127	Remote-rendered 3D CT angiography (3DCTA) as an intraoperative aid in cerebrovascular neurosurgery. Computer Aided Surgery, 1999, 4, 256-63.	1.8	9
128	New Strategies for Cerebral Aneurysms. Surgery for Cerebral Stroke, 1999, 27, 1-6.	0.0	0
129	Stereotactic Radiosurgery of Angiographically Occult Vascular Malformations: 14-Year Experience. Neurosurgery, 1998, 43, 213-220.	0.6	102
130	Optimal Depth and Duration of Mild Hypothermia in a Focal Model of Transient Cerebral Ischemia. Stroke, 1998, 29, 2171-2180.	1.0	314
131	Microsurgical Resection of Incompletely Obliterated Intracranial Arteriovenous Malformations Following Stereotactic Radiosurgery. Neurologia Medico-Chirurgica, 1998, 38, 200-207.	1.0	23
132	Genetic Heterogeneity of Inherited Cerebral Cavernous Malformation. Neurosurgery, 1996, 38, 1265-1271.	0.6	104
133	Neuroprotection following focal cerebral ischaemia with the NMDA antagonist dextromethorphan, has a favourable dose response profile. Neurological Research, 1993, 15, 174-180.	0.6	50
134	Stereotactic, Angiography-guided Clipping of a Distal, Mycotic Intracranial Aneurysm Using the Cosman-Roberts-Wells System. Neurosurgery, 1992, 30, 408-411.	0.6	36