

Ganesh M Shankar

List of Publications by Year in Descending Order

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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.

67
papers

10,231
citations

28
h-index

71
g-index

71
ext. papers

11,352
ext. citations

6.9
avg, IF

5.85
L-index

#	Paper	IF	Citations
67	Machine Learning Applications of Surgical Imaging for the Diagnosis and Treatment of Spine Disorders: Current State of the Art.. <i>Neurosurgery</i> , 2022 , 90,	3.2	2
66	Clinical Prediction Modeling in Intramedullary Spinal Tumor Surgery. <i>Acta Neurochirurgica Supplementum</i> , 2022 , 134, 333-339	1.7	0
65	Evaluating frailty, mortality, and complications associated with metastatic spine tumor surgery using machine learning-derived body composition analysis.. <i>Journal of Neurosurgery: Spine</i> , 2022 , 1-11	2.8	1
64	Commentary: Use of Navigated Ultrasonic Bone Cutting Tool for En Bloc Resection of Thoracic Chondrosarcoma: Technical Report. <i>Operative Neurosurgery</i> , 2021 , 20, E163-E164	1.6	
63	Commentary: Survival Trends After Surgery for Spinal Metastatic Tumors: 20-Year Cancer Center Experience. <i>Neurosurgery</i> , 2021 , 88, E140-E141	3.2	
62	A rapid genotyping panel for detection of primary central nervous system lymphoma. <i>Blood</i> , 2021 , 138, 382-386	2.2	1
61	Safety and efficacy of cement augmentation with fenestrated pedicle screws for tumor-related spinal instability. <i>Neurosurgical Focus</i> , 2021 , 50, E12	4.2	7
60	Performance assessment of the metastatic spinal tumor frailty index using machine learning algorithms: limitations and future directions. <i>Neurosurgical Focus</i> , 2021 , 50, E5	4.2	9
59	Novel Applications of Spinal Navigation in Deformity and Oncology Surgery-Beyond Screw Placement. <i>Operative Neurosurgery</i> , 2021 , 21, S23-S38	1.6	1
58	Advances in surgical hemostasis: a comprehensive review and meta-analysis on topical tranexamic acid in spinal deformity surgery. <i>Neurosurgical Review</i> , 2021 , 44, 163-175	3.9	6
57	Assessment of the efficacy of teriparatide treatment for osteoporosis on lumbar fusion surgery outcomes: a systematic review and meta-analysis. <i>Neurosurgical Review</i> , 2021 , 44, 1357-1370	3.9	3
56	Safety and accuracy of robot-assisted placement of pedicle screws compared to conventional free-hand technique: a systematic review and meta-analysis. <i>Spine Journal</i> , 2021 , 21, 181-192	4	18
55	Promoter Mutation Analysis for Blood-Based Diagnosis and Monitoring of Gliomas. <i>Clinical Cancer Research</i> , 2021 , 27, 169-178	12.9	19
54	The effectiveness of systemic therapies after surgery for metastatic renal cell carcinoma to the spine: a propensity analysis controlling for sarcopenia, frailty, and nutrition. <i>Journal of Neurosurgery: Spine</i> , 2021 , 1-10	2.8	3
53	A case report of simultaneous surgery for concurrent symptomatic carotid artery and cervical spinal stenosis. <i>Interdisciplinary Neurosurgery: Advanced Techniques and Case Management</i> , 2021 , 26, 101348	0.5	
52	Commentary: Hybrid Therapy (Surgery and Radiosurgery) for the Treatment of Renal Cell Carcinoma Spinal Metastases.. <i>Neurosurgery</i> , 2021 , 90,	3.2	
51	Biomechanical analysis of stand-alone lumbar interbody cages versus 360° constructs: an in vitro and finite element investigation.. <i>Journal of Neurosurgery: Spine</i> , 2021 , 1-9	2.8	1

50	Frequent inactivating mutations of the PBAF complex gene PBRM1 in meningioma with papillary features. <i>Acta Neuropathologica</i> , 2020 , 140, 89-93	14.3	10
49	Survival After Surgery for Renal Cell Carcinoma Metastatic to the Spine: Impact of Modern Systemic Therapies on Outcomes. <i>Neurosurgery</i> , 2020 , 87, 1174-1180	3.2	7
48	Structural Allograft versus Polyetheretherketone Implants in Patients Undergoing Spinal Fusion Surgery: A Systematic Review and Meta-Analysis. <i>World Neurosurgery</i> , 2020 , 136, 101-109	2.1	3
47	Development and Validation of Machine Learning Algorithms for Predicting Adverse Events After Surgery for Lumbar Degenerative Spondylolisthesis. <i>World Neurosurgery</i> , 2020 , 140, 627-641	2.1	5
46	Polyetheretherketone Versus Titanium Cages for Posterior Lumbar Interbody Fusion: Meta-Analysis and Review of the Literature. <i>Neurospine</i> , 2020 , 17, 125-135	3.1	12
45	Novel Technique for C1-2 Interlaminar Arthrodesis Utilizing a Modified Sonntag Loop-Suture Graft With Posterior C1-2 Fixation. <i>Neurospine</i> , 2020 , 17, 659-665	3.1	1
44	Does Obesity Correlate with Postoperative Complications After Elective Posterior Cervical Spine Fusion?. <i>World Neurosurgery</i> , 2020 , 141, e231-e238	2.1	2
43	Distinct genomic subclasses of high-grade/progressive meningiomas: NF2-associated, NF2-exclusive, and NF2-agnostic. <i>Acta Neuropathologica Communications</i> , 2020 , 8, 171	7.3	18
42	Predictive Analytics in Spine Oncology Research: First Steps, Limitations, and Future Directions. <i>Neurospine</i> , 2019 , 16, 669-677	3.1	14
41	Posterior Lumbar and Sacral Approach and Stabilization: Intralesional Lumbar Resection 2019 , 205-218		
40	Postoperative stroke after anterior cervical discectomy and fusion in patients with carotid artery stenosis: a statewide database analysis. <i>Spine Journal</i> , 2019 , 19, 597-601	4	8
39	Implication of Biomarker Mutations for Predicting Survival in Patients With Metastatic Lung Cancer to the Spine. <i>Spine</i> , 2018 , 43, E1274-E1280	3.3	6
38	The impact of surgery on survival after progression of glioblastoma: A retrospective cohort analysis of a contemporary patient population. <i>Journal of Clinical Neuroscience</i> , 2018 , 53, 41-47	2.2	13
37	Genotype-targeted local therapy of glioma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8388-E8394	11.5	29
36	DMD genomic deletions characterize a subset of progressive/higher-grade meningiomas with poor outcome. <i>Acta Neuropathologica</i> , 2018 , 136, 779-792	14.3	41
35	TERT rearrangements to identify a subset of aggressive meningiomas.. <i>Journal of Clinical Oncology</i> , 2018 , 36, e14028-e14028	2.2	1
34	BAP1 mutations in high-grade meningioma: implications for patient care. <i>Neuro-Oncology</i> , 2017 , 19, 1447-1456-79		
33	The Alkylating Chemotherapeutic Temozolomide Induces Metabolic Stress in -Mutant Cancers and Potentiates NAD Depletion-Mediated Cytotoxicity. <i>Cancer Research</i> , 2017 , 77, 4102-4115	10.1	53

32	Germline and somatic BAP1 mutations in high-grade rhabdoid meningiomas. <i>Neuro-Oncology</i> , 2017 , 19, 535-545	1	60
31	Liquid biopsy for brain tumors. <i>Expert Review of Molecular Diagnostics</i> , 2017 , 17, 943-947	3.8	70
30	The role of revision surgery and adjuvant therapy following subtotal resection of osteosarcoma of the spine: a systematic review with meta-analysis. <i>Journal of Neurosurgery: Spine</i> , 2017 , 27, 97-104	2.8	20
29	Effect of Immunotherapy Status on Outcomes in Patients With Metastatic Melanoma to the Spine. <i>Spine</i> , 2017 , 42, E721-E725	3.3	10
28	Intratumoral heterogeneity and promoter mutations in progressive/higher-grade meningiomas. <i>Oncotarget</i> , 2017 , 8, 109228-109237	3.3	61
27	Metastatic adrenal cortical carcinoma to T12 vertebrae. <i>Journal of Clinical Neuroscience</i> , 2016 , 27, 166-9	2.2	5
26	Spinal cord glioblastoma: 25years of experience from a single institution. <i>Journal of Clinical Neuroscience</i> , 2016 , 27, 138-41	2.2	27
25	Dramatic Response of BRAF V600E Mutant Papillary Craniopharyngioma to Targeted Therapy. <i>Journal of the National Cancer Institute</i> , 2016 , 108,	9.7	144
24	BRAF alteration status and the histone H3F3A gene K27M mutation segregate spinal cord astrocytoma histology. <i>Acta Neuropathologica</i> , 2016 , 131, 147-50	14.3	48
23	PLEKHA5: A Key to Unlock the Blood-Brain Barrier?. <i>Clinical Cancer Research</i> , 2015 , 21, 1978-80	12.9	10
22	Rapid Intraoperative Molecular Characterization of Glioma. <i>JAMA Oncology</i> , 2015 , 1, 662-7	13.4	53
21	Secreted amyloid β proteins in a cell culture model include N-terminally extended peptides that impair synaptic plasticity. <i>Biochemistry</i> , 2014 , 53, 3908-21	3.2	71
20	Sporadic hemangioblastomas are characterized by cryptic VHL inactivation. <i>Acta Neuropathologica Communications</i> , 2014 , 2, 167	7.3	45
19	Complement component C3 and complement receptor type 3 contribute to the phagocytosis and clearance of fibrillar A β by microglia. <i>Glia</i> , 2012 , 60, 993-1003	9	108
18	Soluble A β oligomers inhibit long-term potentiation through a mechanism involving excessive activation of extrasynaptic NR2B-containing NMDA receptors. <i>Journal of Neuroscience</i> , 2011 , 31, 6627-38	6.6	446
17	Isolation of low-n amyloid β protein oligomers from cultured cells, CSF, and brain. <i>Methods in Molecular Biology</i> , 2011 , 670, 33-44	1.4	44
16	Cholesterol level and statin use in Alzheimer disease: I. Review of epidemiological and preclinical studies. <i>Archives of Neurology</i> , 2011 , 68, 1239-44		155
15	Cholesterol level and statin use in Alzheimer disease: II. Review of human trials and recommendations. <i>Archives of Neurology</i> , 2011 , 68, 1385-92		143

14	How do Soluble Oligomers of Amyloid beta-protein Impair Hippocampal Synaptic Plasticity?. <i>Frontiers in Cellular Neuroscience</i> , 2010 , 4, 5	6.1	27
13	The presence of sodium dodecyl sulphate-stable Abeta dimers is strongly associated with Alzheimer-type dementia. <i>Brain</i> , 2010 , 133, 1328-41	11.2	207
12	Biochemical and immunohistochemical analysis of an Alzheimer's disease mouse model reveals the presence of multiple cerebral Abeta assembly forms throughout life. <i>Neurobiology of Disease</i> , 2009 , 36, 293-302	7.5	98
11	Alzheimer's disease: synaptic dysfunction and Abeta. <i>Molecular Neurodegeneration</i> , 2009 , 4, 48	19	318
10	Soluble oligomers of amyloid Beta protein facilitate hippocampal long-term depression by disrupting neuronal glutamate uptake. <i>Neuron</i> , 2009 , 62, 788-801	13.9	698
9	Amyloid-beta protein dimers isolated directly from Alzheimer's brains impair synaptic plasticity and memory. <i>Nature Medicine</i> , 2008 , 14, 837-42	50.5	2779
8	Multiple Levels of Synaptic Regulation by NMDA-type Glutamate Receptor in Normal and Disease States 2008 , 75-87		
7	Protein aggregation in the brain: the molecular basis for Alzheimer's and Parkinson's diseases. <i>Molecular Medicine</i> , 2008 , 14, 451-64	6.2	362
6	Natural oligomers of the Alzheimer amyloid-beta protein induce reversible synapse loss by modulating an NMDA-type glutamate receptor-dependent signaling pathway. <i>Journal of Neuroscience</i> , 2007 , 27, 2866-75	6.6	1232
5	Effects of secreted oligomers of amyloid beta-protein on hippocampal synaptic plasticity: a potent role for trimers. <i>Journal of Physiology</i> , 2006 , 572, 477-92	3.9	472
4	Certain inhibitors of synthetic amyloid beta-peptide (Abeta) fibrillogenesis block oligomerization of natural Abeta and thereby rescue long-term potentiation. <i>Journal of Neuroscience</i> , 2005 , 25, 2455-62	6.6	262
3	Amyloid beta protein immunotherapy neutralizes Abeta oligomers that disrupt synaptic plasticity in vivo. <i>Nature Medicine</i> , 2005 , 11, 556-61	50.5	443
2	Natural oligomers of the amyloid-beta protein specifically disrupt cognitive function. <i>Nature Neuroscience</i> , 2005 , 8, 79-84	25.5	1436
1	TERT promoter mutation analysis for blood-based diagnosis and monitoring of gliomas		1