

# Ganesh M Shankar

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/11143131/ganesh-m-shankar-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Amyloid-beta protein dimers isolated directly from Alzheimer's brains impair synaptic plasticity and memory. <i>Nature Medicine</i> , <b>2008</b> , 14, 837-42	50.5	2779
66	Natural oligomers of the amyloid-beta protein specifically disrupt cognitive function. <i>Nature Neuroscience</i> , <b>2005</b> , 8, 79-84	25.5	1436
65	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> , <b>2007</b> , 27, 2866-75	6.6	1232
64	Soluble oligomers of amyloid Beta protein facilitate hippocampal long-term depression by disrupting neuronal glutamate uptake. <i>Neuron</i> , <b>2009</b> , 62, 788-801	13.9	698
63	Effects of secreted oligomers of amyloid beta-protein on hippocampal synaptic plasticity: a potent role for trimers. <i>Journal of Physiology</i> , <b>2006</b> , 572, 477-92	3.9	472
62	Soluble A $\beta$ oligomers inhibit long-term potentiation through a mechanism involving excessive activation of extrasynaptic NR2B-containing NMDA receptors. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 6627-38	6.6	446
61	Amyloid beta protein immunotherapy neutralizes A $\beta$ oligomers that disrupt synaptic plasticity in vivo. <i>Nature Medicine</i> , <b>2005</b> , 11, 556-61	50.5	443
60	Protein aggregation in the brain: the molecular basis for Alzheimer's and Parkinson's diseases. <i>Molecular Medicine</i> , <b>2008</b> , 14, 451-64	6.2	362
59	Alzheimer's disease: synaptic dysfunction and A $\beta$ . <i>Molecular Neurodegeneration</i> , <b>2009</b> , 4, 48	19	318
58	Certain inhibitors of synthetic amyloid beta-peptide (A $\beta$ ) fibrillogenesis block oligomerization of natural A $\beta$ and thereby rescue long-term potentiation. <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 2455-62	6.6	262
57	The presence of sodium dodecyl sulphate-stable A $\beta$ dimers is strongly associated with Alzheimer-type dementia. <i>Brain</i> , <b>2010</b> , 133, 1328-41	11.2	207
56	Cholesterol level and statin use in Alzheimer disease: I. Review of epidemiological and preclinical studies. <i>Archives of Neurology</i> , <b>2011</b> , 68, 1239-44		155
55	Dramatic Response of BRAF V600E Mutant Papillary Craniopharyngioma to Targeted Therapy. <i>Journal of the National Cancer Institute</i> , <b>2016</b> , 108,	9.7	144
54	Cholesterol level and statin use in Alzheimer disease: II. Review of human trials and recommendations. <i>Archives of Neurology</i> , <b>2011</b> , 68, 1385-92		143
53	Complement component C3 and complement receptor type 3 contribute to the phagocytosis and clearance of fibrillar A $\beta$ by microglia. <i>Glia</i> , <b>2012</b> , 60, 993-1003	9	108
52	Biochemical and immunohistochemical analysis of an Alzheimer's disease mouse model reveals the presence of multiple cerebral A $\beta$ assembly forms throughout life. <i>Neurobiology of Disease</i> , <b>2009</b> , 36, 293-302	7.5	98
51	BAP1 mutations in high-grade meningioma: implications for patient care. <i>Neuro-Oncology</i> , <b>2017</b> , 19, 1447-1456	7.9	79

50	Secreted amyloid E-proteins in a cell culture model include N-terminally extended peptides that impair synaptic plasticity. <i>Biochemistry</i> , <b>2014</b> , 53, 3908-21	3.2	71
49	Liquid biopsy for brain tumors. <i>Expert Review of Molecular Diagnostics</i> , <b>2017</b> , 17, 943-947	3.8	70
48	Intratumoral heterogeneity and promoter mutations in progressive/higher-grade meningiomas. <i>Oncotarget</i> , <b>2017</b> , 8, 109228-109237	3.3	61
47	Germline and somatic BAP1 mutations in high-grade rhabdoid meningiomas. <i>Neuro-Oncology</i> , <b>2017</b> , 19, 535-545	1	60
46	The Alkylating Chemotherapeutic Temozolomide Induces Metabolic Stress in -Mutant Cancers and Potentiates NAD Depletion-Mediated Cytotoxicity. <i>Cancer Research</i> , <b>2017</b> , 77, 4102-4115	10.1	53
45	Rapid Intraoperative Molecular Characterization of Glioma. <i>JAMA Oncology</i> , <b>2015</b> , 1, 662-7	13.4	53
44	BRAF alteration status and the histone H3F3A gene K27M mutation segregate spinal cord astrocytoma histology. <i>Acta Neuropathologica</i> , <b>2016</b> , 131, 147-50	14.3	48
43	Sporadic hemangioblastomas are characterized by cryptic VHL inactivation. <i>Acta Neuropathologica Communications</i> , <b>2014</b> , 2, 167	7.3	45
42	Isolation of low-n amyloid E-protein oligomers from cultured cells, CSF, and brain. <i>Methods in Molecular Biology</i> , <b>2011</b> , 670, 33-44	1.4	44
41	DMD genomic deletions characterize a subset of progressive/higher-grade meningiomas with poor outcome. <i>Acta Neuropathologica</i> , <b>2018</b> , 136, 779-792	14.3	41
40	Genotype-targeted local therapy of glioma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E8388-E8394	11.5	29
39	Spinal cord glioblastoma: 25years of experience from a single institution. <i>Journal of Clinical Neuroscience</i> , <b>2016</b> , 27, 138-41	2.2	27
38	How do Soluble Oligomers of Amyloid beta-protein Impair Hippocampal Synaptic Plasticity?. <i>Frontiers in Cellular Neuroscience</i> , <b>2010</b> , 4, 5	6.1	27
37	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> , <b>2017</b> , 27, 97-104	2.8	20
36	Promoter Mutation Analysis for Blood-Based Diagnosis and Monitoring of Gliomas. <i>Clinical Cancer Research</i> , <b>2021</b> , 27, 169-178	12.9	19
35	Distinct genomic subclasses of high-grade/progressive meningiomas: NF2-associated, NF2-exclusive, and NF2-agnostic. <i>Acta Neuropathologica Communications</i> , <b>2020</b> , 8, 171	7.3	18
34	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> , <b>2021</b> , 21, 181-192	4	18
33	Predictive Analytics in Spine Oncology Research: First Steps, Limitations, and Future Directions. <i>Neurospine</i> , <b>2019</b> , 16, 669-677	3.1	14

32	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> , <b>2018</b> , 53, 41-47	2.2	13
31	Polyetheretherketone Versus Titanium Cages for Posterior Lumbar Interbody Fusion: Meta-Analysis and Review of the Literature. <i>Neurospine</i> , <b>2020</b> , 17, 125-135	3.1	12
30	PLEKHA5: A Key to Unlock the Blood-Brain Barrier?. <i>Clinical Cancer Research</i> , <b>2015</b> , 21, 1978-80	12.9	10
29	Frequent inactivating mutations of the PBAF complex gene PBRM1 in meningioma with papillary features. <i>Acta Neuropathologica</i> , <b>2020</b> , 140, 89-93	14.3	10
28	Effect of Immunotherapy Status on Outcomes in Patients With Metastatic Melanoma to the Spine. <i>Spine</i> , <b>2017</b> , 42, E721-E725	3.3	10
27	Performance assessment of the metastatic spinal tumor frailty index using machine learning algorithms: limitations and future directions. <i>Neurosurgical Focus</i> , <b>2021</b> , 50, E5	4.2	9
26	Postoperative stroke after anterior cervical discectomy and fusion in patients with carotid artery stenosis: a statewide database analysis. <i>Spine Journal</i> , <b>2019</b> , 19, 597-601	4	8
25	Survival After Surgery for Renal Cell Carcinoma Metastatic to the Spine: Impact of Modern Systemic Therapies on Outcomes. <i>Neurosurgery</i> , <b>2020</b> , 87, 1174-1180	3.2	7
24	Safety and efficacy of cement augmentation with fenestrated pedicle screws for tumor-related spinal instability. <i>Neurosurgical Focus</i> , <b>2021</b> , 50, E12	4.2	7
23	Implication of Biomarker Mutations for Predicting Survival in Patients With Metastatic Lung Cancer to the Spine. <i>Spine</i> , <b>2018</b> , 43, E1274-E1280	3.3	6
22	Advances in surgical hemostasis: a comprehensive review and meta-analysis on topical tranexamic acid in spinal deformity surgery. <i>Neurosurgical Review</i> , <b>2021</b> , 44, 163-175	3.9	6
21	Development and Validation of Machine Learning Algorithms for Predicting Adverse Events After Surgery for Lumbar Degenerative Spondylolisthesis. <i>World Neurosurgery</i> , <b>2020</b> , 140, 627-641	2.1	5
20	Metastatic adrenal cortical carcinoma to T12 vertebrae. <i>Journal of Clinical Neuroscience</i> , <b>2016</b> , 27, 166-9	2.2	5
19	Structural Allograft versus Polyetheretherketone Implants in Patients Undergoing Spinal Fusion Surgery: A Systematic Review and Meta-Analysis. <i>World Neurosurgery</i> , <b>2020</b> , 136, 101-109	2.1	3
18	Assessment of the efficacy of teriparatide treatment for osteoporosis on lumbar fusion surgery outcomes: a systematic review and meta-analysis. <i>Neurosurgical Review</i> , <b>2021</b> , 44, 1357-1370	3.9	3
17	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> , <b>2021</b> , 1-10	2.8	3
16	Machine Learning Applications of Surgical Imaging for the Diagnosis and Treatment of Spine Disorders: Current State of the Art.. <i>Neurosurgery</i> , <b>2022</b> , 90,	3.2	2
15	Does Obesity Correlate with Postoperative Complications After Elective Posterior Cervical Spine Fusion?. <i>World Neurosurgery</i> , <b>2020</b> , 141, e231-e238	2.1	2

14	TERT promoter mutation analysis for blood-based diagnosis and monitoring of gliomas		1
13	TERT rearrangements to identify a subset of aggressive meningiomas.. <i>Journal of Clinical Oncology</i> , <b>2018</b> , 36, e14028-e14028	2.2	1
12	Novel Technique for C1-2 Interlaminar Arthrodesis Utilizing a Modified Sonntag Loop-Suture Graft With Posterior C1-2 Fixation. <i>Neurospine</i> , <b>2020</b> , 17, 659-665	3.1	1
11	A rapid genotyping panel for detection of primary central nervous system lymphoma. <i>Blood</i> , <b>2021</b> , 138, 382-386	2.2	1
10	Novel Applications of Spinal Navigation in Deformity and Oncology Surgery-Beyond Screw Placement. <i>Operative Neurosurgery</i> , <b>2021</b> , 21, S23-S38	1.6	1
9	Evaluating frailty, mortality, and complications associated with metastatic spine tumor surgery using machine learning-derived body composition analysis.. <i>Journal of Neurosurgery: Spine</i> , <b>2022</b> , 1-11	2.8	1
8	Biomechanical analysis of stand-alone lumbar interbody cages versus 360° constructs: an in vitro and finite element investigation.. <i>Journal of Neurosurgery: Spine</i> , <b>2021</b> , 1-9	2.8	1
7	Clinical Prediction Modeling in Intramedullary Spinal Tumor Surgery. <i>Acta Neurochirurgica Supplementum</i> , <b>2022</b> , 134, 333-339	1.7	0
6	Multiple Levels of Synaptic Regulation by NMDA-type Glutamate Receptor in Normal and Disease States <b>2008</b> , 75-87		
5	Posterior Lumbar and Sacral Approach and Stabilization: Intralesional Lumbar Resection <b>2019</b> , 205-218		
4	Commentary: Use of Navigated Ultrasonic Bone Cutting Tool for En Bloc Resection of Thoracic Chondrosarcoma: Technical Report. <i>Operative Neurosurgery</i> , <b>2021</b> , 20, E163-E164	1.6	
3	Commentary: Survival Trends After Surgery for Spinal Metastatic Tumors: 20-Year Cancer Center Experience. <i>Neurosurgery</i> , <b>2021</b> , 88, E140-E141	3.2	
2	A case report of simultaneous surgery for concurrent symptomatic carotid artery and cervical spinal stenosis. <i>Interdisciplinary Neurosurgery: Advanced Techniques and Case Management</i> , <b>2021</b> , 26, 101348	0.5	
1	Commentary: Hybrid Therapy (Surgery and Radiosurgery) for the Treatment of Renal Cell Carcinoma Spinal Metastases.. <i>Neurosurgery</i> , <b>2021</b> , 90,	3.2	