Ganesh M Shankar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11143131/publications.pdf

Version: 2024-02-01

67 papers	12,305 citations	126907 33 h-index	123424 61 g-index
71 all docs	71 docs citations	71 times ranked	13735 citing authors

#	Article	IF	Citations
1	Amyloid-Î² protein dimers isolated directly from Alzheimer's brains impair synaptic plasticity and memory. Nature Medicine, 2008, 14, 837-842.	30.7	3,225
2	Natural oligomers of the amyloid-Î² protein specifically disrupt cognitive function. Nature Neuroscience, 2005, 8, 79-84.	14.8	1,595
3	Natural Oligomers of the Alzheimer Amyloid-Î² Protein Induce Reversible Synapse Loss by Modulating an NMDA-Type Glutamate Receptor-Dependent Signaling Pathway. Journal of Neuroscience, 2007, 27, 2866-2875.	3.6	1,445
4	Soluble Oligomers of Amyloid Î² Protein Facilitate Hippocampal Long-Term Depression by Disrupting Neuronal Glutamate Uptake. Neuron, 2009, 62, 788-801.	8.1	818
5	Effects of secreted oligomers of amyloid Î²â€protein on hippocampal synaptic plasticity: a potent role for trimers. Journal of Physiology, 2006, 572, 477-492.	2.9	557
6	Soluble AÎ² Oligomers Inhibit Long-Term Potentiation through a Mechanism Involving Excessive Activation of Extrasynaptic NR2B-Containing NMDA Receptors. Journal of Neuroscience, 2011, 31, 6627-6638.	3.6	530
7	Amyloid Î² protein immunotherapy neutralizes AÎ² oligomers that disrupt synaptic plasticity in vivo. Nature Medicine, 2005, 11, 556-561.	30.7	485
8	Protein Aggregation in the Brain: The Molecular Basis for Alzheimerâ€™s and Parkinsonâ€™s Diseases. Molecular Medicine, 2008, 14, 451-464.	4.4	445
9	Alzheimer's disease: synaptic dysfunction and AÎ². Molecular Neurodegeneration, 2009, 4, 48.	10.8	388
10	Certain Inhibitors of Synthetic Amyloid Â-Peptide (AÂ) Fibrillogenesis Block Oligomerization of Natural AÂ and Thereby Rescue Long-Term Potentiation. Journal of Neuroscience, 2005, 25, 2455-2462.	3.6	286
11	The presence of sodium dodecyl sulphate-stable AÎ² dimers is strongly associated with Alzheimer-type dementia. Brain, 2010, 133, 1328-1341.	7.6	229
12	Cholesterol Level and Statin Use in Alzheimer Disease. Archives of Neurology, 2011, 68, 1239.	4.5	187
13	Dramatic Response of BRAF V600E Mutant Papillary Craniopharyngioma to Targeted Therapy. Journal of the National Cancer Institute, 2016, 108, djv310.	6.3	182
14	Cholesterol Level and Statin Use in Alzheimer Disease. Archives of Neurology, 2011, 68, 1385.	4.5	166
15	Complement component C3 and complement receptor type 3 contribute to the phagocytosis and clearance of fibrillar AÎ² by microglia. Glia, 2012, 60, 993-1003.	4.9	136
16	BAP1 mutations in high-grade meningioma: implications for patient care. Neuro-Oncology, 2017, 19, 1447-1456.	1.2	125
17	Biochemical and immunohistochemical analysis of an Alzheimer's disease mouse model reveals the presence of multiple cerebral AÎ² assembly forms throughout life. Neurobiology of Disease, 2009, 36, 293-302.	4.4	117
18	Liquid biopsy for brain tumors. Expert Review of Molecular Diagnostics, 2017, 17, 943-947.	3.1	113

#	Article	IF	Citations
19	Germline and somatic BAP1 mutations in high-grade rhabdoid meningiomas. Neuro-Oncology, 2017, 19, now235.	1.2	99
20	Intratumoral heterogeneity and TERT promoter mutations in progressive/higher-grade meningiomas. Oncotarget, 2017, 8, 109228-109237.	1.8	89
21	Secreted Amyloid Î²-Proteins in a Cell Culture Model Include N-Terminally Extended Peptides That Impair Synaptic Plasticity. Biochemistry, 2014, 53, 3908-3921.	2.5	85
22	The Alkylating Chemotherapeutic Temozolomide Induces Metabolic Stress in IDH1-Mutant Cancers and Potentiates NAD+ Depletionâ€“Mediated Cytotoxicity. Cancer Research, 2017, 77, 4102-4115.	0.9	74
23	Rapid Intraoperative Molecular Characterization of Glioma. JAMA Oncology, 2015, 1, 662.	7.1	68
24	Safety and accuracy of robot-assisted placement of pedicle screws compared to conventional free-hand technique: a systematic review and meta-analysis. Spine Journal, 2021, 21, 181-192.	1.3	67
25	DMD genomic deletions characterize a subset of progressive/higher-grade meningiomas with poor outcome. Acta Neuropathologica, 2018, 136, 779-792.	7.7	66
26	Sporadic hemangioblastomas are characterized by cryptic VHL inactivation. Acta Neuropathologica Communications, 2014, 2, 167.	5.2	65
27	Distinct genomic subclasses of high-grade/progressive meningiomas: NF2-associated, NF2-exclusive, and NF2-agnostic. Acta Neuropathologica Communications, 2020, 8, 171.	5.2	58
28	BRAF alteration status and the histone H3F3A gene K27M mutation segregate spinal cord astrocytoma histology. Acta Neuropathologica, 2016, 131, 147-150.	7.7	57
29	Isolation of Low-n Amyloid Î²-Protein Oligomers from Cultured Cells, CSF, and Brain. Methods in Molecular Biology, 2010, 670, 33-44.	0.9	54
30	TERT Promoter Mutation Analysis for Blood-Based Diagnosis and Monitoring of Gliomas. Clinical Cancer Research, 2021, 27, 169-178.	7.0	50
31	Genotype-targeted local therapy of glioma. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8388-E8394.	7.1	40
32	Polyetheretherketone Versus Titanium Cages for Posterior Lumbar Interbody Fusion: Meta-Analysis and Review of the Literature. Neurospine, 2020, 17, 125-135.	2.9	38
33	Spinal cord glioblastoma: 25years of experience from a single institution. Journal of Clinical Neuroscience, 2016, 27, 138-141.	1.5	35
34	Frequent inactivating mutations of the PBAF complex gene PBRM1 in meningioma with papillary features. Acta Neuropathologica, 2020, 140, 89-93.	7.7	32
35	How do soluble oligomers of amyloid Î²-protein impair hippocampal synaptic plasticity?. Frontiers in Cellular Neuroscience, 2010, 4, 5.	3.7	27
36	The role of revision surgery and adjuvant therapy following subtotal resection of osteosarcoma of the spine: a systematic review with meta-analysis. Journal of Neurosurgery: Spine, 2017, 27, 97-104.	1.7	27

#	Article	IF	Citations
37	The impact of surgery on survival after progression of glioblastoma: A retrospective cohort analysis of a contemporary patient population. Journal of Clinical Neuroscience, 2018, 53, 41-47.	1.5	24
38	Performance assessment of the metastatic spinal tumor frailty index using machine learning algorithms: limitations and future directions. Neurosurgical Focus, 2021, 50, E5.	2.3	21
39	Predictive Analytics in Spine Oncology Research: First Steps, Limitations, and Future Directions. Neurospine, 2019, 16, 669-677.	2.9	20
40	Advances in surgical hemostasis: a comprehensive review and meta-analysis on topical tranexamic acid in spinal deformity surgery. Neurosurgical Review, 2021, 44, 163-175.	2.4	15
41	Development and Validation of Machine Learning Algorithms for Predicting Adverse Events After Surgery for Lumbar Degenerative Spondylolisthesis. World Neurosurgery, 2020, 140, 627-641.	1.3	14
42	Safety and efficacy of cement augmentation with fenestrated pedicle screws for tumor-related spinal instability. Neurosurgical Focus, 2021, 50, E12.	2.3	14
43	Assessment of the efficacy of teriparatide treatment for osteoporosis on lumbar fusion surgery outcomes: a systematic review and meta-analysis. Neurosurgical Review, 2021, 44, 1357-1370.	2.4	13
44	A rapid genotyping panel for detection of primary central nervous system lymphoma. Blood, 2021, 138, 382-386.	1.4	13
45	PLEKHA5: A Key to Unlock the Bloodâ€“Brain Barrier?. Clinical Cancer Research, 2015, 21, 1978-1980.	7.0	11
46	Effect of Immunotherapy Status on Outcomes in Patients With Metastatic Melanoma to the Spine. Spine, 2017, 42, E721-E725.	2.0	11
47	Postoperative stroke after anterior cervical discectomy and fusion in patients with carotid artery stenosis: a statewide database analysis. Spine Journal, 2019, 19, 597-601.	1.3	11
48	Structural Allograft versus Polyetheretherketone Implants in Patients Undergoing Spinal Fusion Surgery: A Systematic Review and Meta-Analysis. World Neurosurgery, 2020, 136, 101-109.	1.3	11
49	Survival After Surgery for Renal Cell Carcinoma Metastatic to the Spine: Impact of Modern Systemic Therapies on Outcomes. Neurosurgery, 2020, 87, 1174-1180.	1.1	10
50	Implication of Biomarker Mutations for Predicting Survival in Patients With Metastatic Lung Cancer to the Spine. Spine, 2018, 43, E1274-E1280.	2.0	7
51	Machine Learning Applications of Surgical Imaging for the Diagnosis and Treatment of Spine Disorders: Current State of the Art. Neurosurgery, 2022, 90, 372-382.	1.1	7
52	Metastatic adrenal cortical carcinoma to T12 vertebrae. Journal of Clinical Neuroscience, 2016, 27, 166-169.	1.5	6
53	The effectiveness of systemic therapies after surgery for metastatic renal cell carcinoma to the spine: a propensity analysis controlling for sarcopenia, frailty, and nutrition. Journal of Neurosurgery: Spine, 2021, 35, 356-365.	1.7	6
54	Does Obesity Correlate with Postoperative Complications After Elective Posterior Cervical Spine Fusion?. World Neurosurgery, 2020, 141, e231-e238.	1.3	5

#	Article	IF	Citations
55	Clinical Prediction Modeling in Intramedullary Spinal Tumor Surgery. Acta Neurochirurgica Supplementum, 2022, 134, 333-339.	1.0	4
56	Evaluating frailty, mortality, and complications associated with metastatic spine tumor surgery using machine learningâ€“derived body composition analysis. Journal of Neurosurgery: Spine, 2022, 37, 263-273.	1.7	4
57	Novel Applications of Spinal Navigation in Deformity and Oncology Surgeryâ€”Beyond Screw Placement. Operative Neurosurgery, 2021, 21, S23-S38.	0.8	3
58	TERT rearrangements to identify a subset of aggressive meningiomas.. Journal of Clinical Oncology, 2018, 36, e14028-e14028.	1.6	2
59	Biomechanical analysis of stand-alone lumbar interbody cages versus 360Â° constructs: an in vitro and finite element investigation. Journal of Neurosurgery: Spine, 2022, 36, 928-936.	1.7	2
60	Novel Technique for C1â€“2 Interlaminar Arthrodesis Utilizing a Modified Sonntag Loop-Suture Graft With Posterior C1â€“2 Fixation. Neurospine, 2020, 17, 659-665.	2.9	1
61	Commentary: Survival Trends After Surgery for Spinal Metastatic Tumors: 20-Year Cancer Center Experience. Neurosurgery, 2020, 88, E140-E141.	1.1	0
62	A case report of simultaneous surgery for concurrent symptomatic carotid artery and cervical spinal stenosis. Interdisciplinary Neurosurgery: Advanced Techniques and Case Management, 2021, 26, 101348.	0.3	0
63	Posterior Lumbar and Sacral Approach and Stabilization: Intralesional Lumbar Resection. , 2019, , 205-218.		0
64	Commentary: Use of Navigated Ultrasonic Bone Cutting Tool for En Bloc Resection of Thoracic Chondrosarcoma: Technical Report. Operative Neurosurgery, 2021, 20, E163-E164.	0.8	0
65	Multiple Levels of Synaptic Regulation by NMDA-type Glutamate Receptor in Normal and Disease States. , 2008, , 75-87.		0
66	Commentary: Hybrid Therapy (Surgery and Radiosurgery) for the Treatment of Renal Cell Carcinoma Spinal Metastases. Neurosurgery, 2021, Publish Ahead of Print, .	1.1	0
67	Effects of rod diameter on kinematics of posterior cervical spine instrumented constructs: an ex vivo study. Journal of Neurosurgery: Spine, 2022, 37, 749-757.	1.7	0