Hassan M Fathallah-Shaykh

List of Publications by Year
in descending order

71 papers	1,113 citations	394390 19 h-index	454934 30 g-index
72 all docs	72 docs citations	72 times ranked	1909 citing authors

#	Article	IF	Citations
1	Brain Tumor Segmentation and Surveillance with Deep Artificial Neural Networks. , 2021, , 311-350.		6
2	PremiUm-CNN: Propagating Uncertainty Towards Robust Convolutional Neural Networks. IEEE Transactions on Signal Processing, 2021, 69, 4669-4684.	5.3	14
3	NKX3.1 Identifies Prostatic Origin of Dural Metastasis in the Setting of Negative Prostate-Specific Antigen Stain. Neurohospitalist, The, 2020, 10, 314-317.	0.8	0
4	Inception Modules Enhance Brain Tumor Segmentation. Frontiers in Computational Neuroscience, 2019, 13, 44.	2.1	37
5	Diagnosing growth in low-grade gliomas with and without longitudinal volume measurements: A retrospective observational study. PLoS Medicine, 2019, 16, e1002810.	8.4	13
6	Approximate kernel reconstruction for time-varying networks. BioData Mining, 2019, 12, 5.	4.0	1
7	Global asymptotic stability in a model of networks. Dynamical Systems, 2018, 33, 159-183.	0.4	0
8	NIMG-13. SEGMENTATION AND VOLUMETRIC ANALYSIS IMPROVES DETECTION OF PROGRESSION IN LOW GRADE GLIOMAS. Neuro-Oncology, 2018, 20, vi178-vi178.	1.2	0
9	Nonlinear Brain Tumor Model Estimation with Long Short-Term Memory Neural Networks. , 2018, , .		3
10	Key rates for the grades and transformation ability of glioma: model simulations and clinical cases. Journal of Neuro-Oncology, 2017, 133, 377-388.	2.9	5
11	The AKRON-Kalman filter for tracking time-varying networks. , 2017, , .		2
12	Single Cell Mathematical Model Successfully Replicates Key Features of GBM: Go-Or-Grow Is Not Necessary. PLoS ONE, 2017, 12, e0169434.	2.5	7
13	Computational Trials: Unraveling Motility Phenotypes, Progression Patterns, and Treatment Options for Glioblastoma Multiforme. PLoS ONE, 2016, 11, e0146617.	2.5	20
14	Interactive Semi-automated Method Using Non-negative Matrix Factorization and Level Set Segmentation for the BRATS Challenge. Lecture Notes in Computer Science, 2016, , 195-205.	1.3	1
15	Non-negative matrix factorization for non-parametric and unsupervised image clustering and segmentation. , 2016, , .		2
16	Automated Robust Image Segmentation: Level Set Method Using Nonnegative Matrix Factorization with Application to Brain MRI. Bulletin of Mathematical Biology, 2016, 78, 1450-1476.	1.9	12
17	The Case for Neurological Network Diseases. JAMA Neurology, 2016, 73, 261.	9.0	0
18	Systems Biology of Glioblastoma Multiforme. , 2015, , .		0

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19	Phase I dose-escalation study of the PI3K/mTOR inhibitor voxtalisib (SAR245409, XL765) plus temozolomide with or without radiotherapy in patients with high-grade glioma. Neuro-Oncology, 2015, 17, 1275-1283.	1.2	61
20	Level set segmentation using non-negative matrix factorization of brain MRI images. , 2015, , .		3
21	ATCT-04RETROSPECTIVE ANALYSIS OF TUMOR TREATING FIELDS (TTFIELDS) IN ADULTS WITH GLIOBLASTOMA: SAFETY PROFILE OF THE OPTUNEâ„¢ MEDICAL DEVICE IN PATIENTS WITH IMPLANTED NON-PROGRAMMABLE SHUNTS, PROGRAMMABLE SHUNTS, AND PACEMAKERS/DEFIBRILLATORS. Neuro-Oncology, 2015, 17, v1.4-v1.	1.2	4
22	Prolonged treatment with bevacizumab is associated with brain atrophy: a pilot study in patients with high-grade gliomas. Journal of Neuro-Oncology, 2015, 122, 585-593.	2.9	12
23	Abstract B2-18: Mechanisms of GBM progression on bevacizumab: Model predictions. , 2015, , .		0
24	Abstract B2-32: Networks dynamics and opposite effects of Wnt5a on motility in melanomas. , 2015, , .		0
25	Effects of Anti-Angiogenesis on Glioblastoma Growth and Migration: Model to Clinical Predictions. PLoS ONE, 2014, 9, e115018.	2.5	28
26	Anti-Angiogenesis, Gene Therapy, and Immunotherapy in Malignant Gliomas. , 2014, , .		0
27	Case 212: Chronic Lymphocytic Inflammation with Pontine Perivascular Enhancement Responsive to Steroids. Radiology, 2014, 273, 940-947.	7.3	8
28	Case 212. Radiology, 2014, 272, 605-607.	7.3	0
29	The Future of Neuroscience Clinical Trialsâ€"Reply. JAMA Neurology, 2014, 71, 652.	9.0	0
30	Proper orthogonal decomposition for parameter estimation in oscillating biological networks. Journal of Computational and Applied Mathematics, 2014, 258, 135-150.	2.0	6
31	Survival analysis in patients with newly diagnosed primary glioblastoma multiforme using pre- and post-treatment peritumoral perfusion imaging parameters. Journal of Neuro-Oncology, 2014, 120, 361-370.	2.9	18
32	A Multilayer Grow-or-Go Model for GBM: Effects of Invasive Cells and Anti-Angiogenesis on Growth. Bulletin of Mathematical Biology, 2014, 76, 2306-2333.	1.9	50
33	Expression of PRMT5 correlates with malignant grade in gliomas and plays a pivotal role in tumor growth in vitro. Journal of Neuro-Oncology, 2014, 118, 61-72.	2.9	82
34	Tracking of time-varying genomic regulatory networks with a LASSO-Kalman smoother. Eurasip Journal on Bioinformatics and Systems Biology, 2014, 2014, 3.	1.4	9
35	The role of Src family kinases in growth and migration of glioma stem cells. International Journal of Oncology, 2014, 45, 302-310.	3.3	49
36	Prognostic Relevance of Cytochrome c Oxidase in Primary Glioblastoma Multiforme. PLoS ONE, 2013, 8, e61035.	2.5	39

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37	c-Src and Neural Wiskott-Aldrich Syndrome Protein (N-WASP) Promote Low Oxygen-Induced Accelerated Brain Invasion by Gliomas. PLoS ONE, 2013, 8, e75436.	2.5	18
38	Inference of genetic regulatory networks using regularized likelihood with covariance estimation. , 2012, , .		6
39	Primary central nervous system angiosarcoma: two case reports. Journal of Medical Case Reports, 2012, 6, 251.	0.8	18
40	Gene Expression Analysis in Radiotherapy Patients and C57BL/6 Mice as a Measure of Exposure to Ionizing Radiation. Radiation Research, 2011, 176, 49.	1.5	39
41	Pontine Ring-Enhancing Glioblastoma Multiformeâ€"Like Fungal Abscess. Archives of Neurology, 2011, 68, 1476.	4.5	3
42	FRACTAL DIMENSION OF THE DROSOPHILA CIRCADIAN CLOCK. Fractals, 2011, 19, 423-430.	3.7	3
43	Modeling of Regulatory Networks. Methods in Enzymology, 2011, 487, 39-71.	1.0	2
44	A Phase 1 Trial of ABT-510 Concurrent With Standard Chemoradiation for Patients With Newly Diagnosed Glioblastoma. Archives of Neurology, 2010, 67, 313-9.	4.5	53
45	Dynamics of the Drosophila Circadian Clock: Theoretical Anti-Jitter Network and Controlled Chaos. PLoS ONE, 2010, 5, e11207.	2.5	7
46	Malignant Astrocytomas. Archives of Neurology, 2010, 67, 353-5.	4.5	55
47	Apparent Widening Gap in Access to Neuro-oncologic Care in the United States. Archives of Neurology, 2010, 67, 1137-9.	4.5	0
48	Rationally Designed Pharmacogenomic Treatment Using Concurrent Capecitabine and Radiotherapy for Glioblastoma; Gene Expression Profiles Associated with Outcome. Clinical Cancer Research, 2010, 16, 2890-2898.	7.0	29
49	Model of the Drosophila Circadian Clock: Loop Regulation and Transcriptional Integration. Biophysical Journal, 2010, 98, 738a-739a.	0.5	0
50	Bevacizumab is active as a single agent against recurrent malignant gliomas. Anticancer Research, 2010, 30, 609-11.	1.1	6
51	Mathematical Model of the Drosophila Circadian Clock: Loop Regulation and Transcriptional Integration. Biophysical Journal, 2009, 97, 2399-2408.	0.5	28
52	Approximation by Cubic Splines Leads to Highly Specific Discovery by Microarrays. Open Bioinformatics Journal, 2008, 2, 54-59.	1.0	0
53	Microarray Data Analysis: Current Practices and Future Directions. Current Pharmacogenomics and Personalized Medicine: the International Journal for Expert Reviews in Pharmacogenomics, 2006, 4, 209-218.	0.3	1
54	Genomic Discovery Reveals a Molecular System for Resistance to Oxidative and Endoplasmic Reticulum Stress in Cultured Glioma. Archives of Neurology, 2005, 62, 233.	4.5	16

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55	Noise and rank-dependent geometrical filter improves sensitivity of highly specific discovery by microarrays. Bioinformatics, 2005, 21, 4255-4262.	4.1	4
56	Microarrays. Archives of Neurology, 2005, 62, 1669.	4.5	33
57	Logical networks inferred from highly specific discovery of transcriptionally regulated genes predict protein states in cultured gliomas. Biochemical and Biophysical Research Communications, 2005, 336, 1278-1284.	2.1	9
58	Mathematical algorithm for discovering states of expression from direct genetic comparison by microarrays. Nucleic Acids Research, 2004, 32, 3807-3814.	14.5	10
59	Genomic Expression Discovery Predicts Pathways and Opposing Functions behind Phenotypes. Journal of Biological Chemistry, 2003, 278, 23830-23833.	3.4	27
60	Darts in the Dark Cure Animal, but Not Human, Brain Tumors. Archives of Neurology, 2002, 59, 721.	4.5	3
61	Mathematical modeling of noise and discovery of genetic expression classes in gliomas. Oncogene, 2002, 21, 7164-7174.	5.9	22
62	Survival in a transgenic model of fals is independent of inos expression. Annals of Neurology, 2001, 50, 273-273.	5.3	25
63	Demyelination but no cognitive, motor or behavioral deficits after adenovirus-mediated gene transfer into the brain. Gene Therapy, 2000, 7, 2094-2098.	4.5	10
64	Gene Transfer of IFN-Î³ into Established Brain Tumors Represses Growth by Antiangiogenesis. Journal of Immunology, 2000, 164, 217-222.	0.8	89
65	Molecular advances to treat cancer of the brain. Expert Opinion on Investigational Drugs, 2000, 9, 1207-1215.	4.1	5
66	Fiction, Reality, and Molecular Neurology. Archives of Neurology, 2000, 57, 63.	4.5	4
67	New Molecular Strategies to Cure Brain Tumors. Archives of Neurology, 1999, 56, 449.	4.5	19
68	Paraneoplastic Neurological Syndromes. Archives of Neurology, 1999, 56, 151.	4.5	7
69	Priming in the brain, an immunologically privileged organ, elicits anti-tumor immunity. , 1998, 75, 266-276.		36
70	Brain Tumors in the Elderly. Archives of Neurology, 1998, 55, 905.	4.5	4
71	Response of primary leptomeningeal melanoma to intrathecal recombinant interleukin-2: A case report. , 1996, 77, 1544-1550.		30