

Hamed Akbari

List of Publications by Citations

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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.

89
papers

3,082
citations

27
h-index

54
g-index

98
ext. papers

4,120
ext. citations

3.7
avg, IF

5.25
L-index

#	Paper	IF	Citations
89	Advancing The Cancer Genome Atlas glioma MRI collections with expert segmentation labels and radiomic features. <i>Scientific Data</i> , 2017 , 4, 170117	8.2	893
88	Imaging patterns predict patient survival and molecular subtype in glioblastoma via machine learning techniques. <i>Neuro-Oncology</i> , 2016 , 18, 417-25	1	174
87	Hyperspectral imaging and quantitative analysis for prostate cancer detection. <i>Journal of Biomedical Optics</i> , 2012 , 17, 076005	3.5	149
86	Cancer detection using infrared hyperspectral imaging. <i>Cancer Science</i> , 2011 , 102, 852-7	6.9	109
85	Detection and analysis of the intestinal ischemia using visible and invisible hyperspectral imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 2011-7	5	107
84	Laboratory features of severe vs. non-severe COVID-19 patients in Asian populations: a systematic review and meta-analysis. <i>European Journal of Medical Research</i> , 2020 , 25, 30	4.8	101
83	Comparative evaluation of registration algorithms in different brain databases with varying difficulty: results and insights. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 2039-65	11.7	97
82	Imaging Surrogates of Infiltration Obtained Via Multiparametric Imaging Pattern Analysis Predict Subsequent Location of Recurrence of Glioblastoma. <i>Neurosurgery</i> , 2016 , 78, 572-80	3.2	84
81	Radiomic MRI signature reveals three distinct subtypes of glioblastoma with different clinical and molecular characteristics, offering prognostic value beyond IDH1. <i>Scientific Reports</i> , 2018 , 8, 5087	4.9	83
80	The role of cytokine profile and lymphocyte subsets in the severity of coronavirus disease 2019 (COVID-19): A systematic review and meta-analysis. <i>Life Sciences</i> , 2020 , 258, 118167	6.8	81
79	Epidermal Growth Factor Receptor Extracellular Domain Mutations in Glioblastoma Present Opportunities for Clinical Imaging and Therapeutic Development. <i>Cancer Cell</i> , 2018 , 34, 163-177.e7	24.3	79
78	Pattern analysis of dynamic susceptibility contrast-enhanced MR imaging demonstrates peritumoral tissue heterogeneity. <i>Radiology</i> , 2014 , 273, 502-10	20.5	69
77	Cancer imaging phenomics toolkit: quantitative imaging analytics for precision diagnostics and predictive modeling of clinical outcome. <i>Journal of Medical Imaging</i> , 2018 , 5, 011018	2.6	64
76	Local response to microneedle-based influenza immunization in the skin. <i>MBio</i> , 2012 , 3, e00012-12	7.8	61
75	Detection of EGFRvIII in Glioblastoma via Perfusion Magnetic Resonance Imaging Signature Consistent with Deep Peritumoral Infiltration: The -Index. <i>Clinical Cancer Research</i> , 2017 , 23, 4724-4734	12.9	57
74	In vivo evaluation of EGFRvIII mutation in primary glioblastoma patients via complex multiparametric MRI signature. <i>Neuro-Oncology</i> , 2018 , 20, 1068-1079	1	55
73	Combining generative models for multifocal glioma segmentation and registration. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 763-70	0.9	45

72	Radiomic signature of infiltration in peritumoral edema predicts subsequent recurrence in glioblastoma: implications for personalized radiotherapy planning. <i>Journal of Medical Imaging</i> , 2018 , 5, 021219	2.6	44
71	GLISTRboost: Combining Multimodal MRI Segmentation, Registration, and Biophysical Tumor Growth Modeling with Gradient Boosting Machines for Glioma Segmentation. <i>Lecture Notes in Computer Science</i> , 2016 , 9556, 144-155	0.9	41
70	Laboratory Findings of COVID-19 Infection are Conflicting in Different Age Groups and Pregnant Women: A Literature Review. <i>Archives of Medical Research</i> , 2020 , 51, 603-607	6.6	40
69	Detection of Cancer Metastasis Using a Novel Macroscopic Hyperspectral Method. <i>Proceedings of SPIE</i> , 2012 , 8317, 831711	1.7	39
68	Organochlorine and organophosphorous pesticides may induce colorectal cancer; A case-control study. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 178, 168-177	7	37
67	3D ultrasound image segmentation using wavelet support vector machines. <i>Medical Physics</i> , 2012 , 39, 2972-84	4.4	36
66	Population-based MRI atlases of spatial distribution are specific to patient and tumor characteristics in glioblastoma. <i>NeuroImage: Clinical</i> , 2016 , 12, 34-40	5.3	36
65	Automated tumor volumetry using computer-aided image segmentation. <i>Academic Radiology</i> , 2015 , 22, 653-661	4.3	33
64	Histopathology-validated machine learning radiographic biomarker for noninvasive discrimination between true progression and pseudo-progression in glioblastoma. <i>Cancer</i> , 2020 , 126, 2625-2636	6.4	30
63	GLISTRboost: Combining Multimodal MRI Segmentation, Registration, and Biophysical Tumor Growth Modeling with Gradient Boosting Machines for Glioma Segmentation. <i>Lecture Notes in Computer Science</i> , 2016 , 144-155	0.9	28
62	PORTR: Pre-operative and post-recurrence brain tumor registration. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 651-67	11.7	26
61	3D Non-rigid Registration Using Surface and Local Salient Features for Transrectal Ultrasound Image-guided Prostate Biopsy. <i>Proceedings of SPIE</i> , 2011 , 7964, 79642V	1.7	22
60	Association of polymorphisms of leptin, leptin receptor and apelin receptor genes with susceptibility to coronary artery disease and hypertension. <i>Life Sciences</i> , 2018 , 207, 166-171	6.8	19
59	Segmentation of Gliomas in Pre-operative and Post-operative Multimodal Magnetic Resonance Imaging Volumes Based on a Hybrid Generative-Discriminative Framework. <i>Lecture Notes in Computer Science</i> , 2016 , 10154, 184-194	0.9	19
58	A Molecular Image-directed, 3D Ultrasound-guided Biopsy System for the Prostate. <i>Proceedings of SPIE</i> , 2012 , 2012,	1.7	18
57	3D Segmentation of Prostate Ultrasound images Using Wavelet Transform. <i>Proceedings of SPIE</i> , 2011 , 7962, 79622K	1.7	17
56	Brain Cancer Imaging Phenomics Toolkit (brain-CaPTk): An Interactive Platform for Quantitative Analysis of Glioblastoma. <i>Lecture Notes in Computer Science</i> , 2018 , 10670, 133-145	0.9	15
55	AI-based prognostic imaging biomarkers for precision neuro-oncology: the ReSPOND consortium. <i>Neuro-Oncology</i> , 2020 , 22, 886-888	1	14

54	Blood vessel detection and artery-vein differentiation using hyperspectral imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 1461-4	0.9	14
53	Serum levels of Organochlorine Pesticides and Breast Cancer Risk in Iranian Women. <i>Archives of Environmental Contamination and Toxicology</i> , 2019 , 77, 480-489	3.2	13
52	Cancer Imaging Phenomics via CaPTk: Multi-Institutional Prediction of Progression-Free Survival and Pattern of Recurrence in Glioblastoma. <i>JCO Clinical Cancer Informatics</i> , 2020 , 4, 234-244	5.2	12
51	Use of Fetal Magnetic Resonance Image Analysis and Machine Learning to Predict the Need for Postnatal Cerebrospinal Fluid Diversion in Fetal Ventriculomegaly. <i>JAMA Pediatrics</i> , 2018 , 172, 128-135	8.3	12
50	A novel method for artery detection in laparoscopic surgery. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2008 , 22, 1672-7	5.2	12
49	The Cancer Imaging Phenomics Toolkit (CaPTk): Technical Overview. <i>Lecture Notes in Computer Science</i> , 2020 , 11993, 380-394	0.9	12
48	Overall survival prediction in glioblastoma patients using structural magnetic resonance imaging (MRI): advanced radiomic features may compensate for lack of advanced MRI modalities. <i>Journal of Medical Imaging</i> , 2020 , 7, 031505	2.6	11
47	Epigenetic modulation of BRCA-1 and MGMT genes, and histones H4 and H3 are associated with breast tumors. <i>Journal of Cellular Biochemistry</i> , 2019 , 120, 13726-13736	4.7	10
46	Detecting Vasodilation as Potential Diagnostic Biomarker in Breast Cancer Using Deep Learning-Driven Thermomics. <i>Biosensors</i> , 2020 , 10,	5.9	10
45	Reproducibility analysis of multi-institutional paired expert annotations and radiomic features of the Ivy Glioblastoma Atlas Project (Ivy GAP) dataset. <i>Medical Physics</i> , 2020 , 47, 6039-6052	4.4	10
44	Hyperspectral imaging and diagnosis of intestinal ischemia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 1238-41	0.9	9
43	A PET/CT Directed, 3D Ultrasound-Guided Biopsy System for Prostate Cancer. <i>Lecture Notes in Computer Science</i> , 2011 , 6363, 100-108	0.9	9
42	NIMG-20. IMAGING PATTERN ANALYSIS REVEALS THREE DISTINCT PHENOTYPIC SUBTYPES OF GBM WITH DIFFERENT SURVIVAL RATES. <i>Neuro-Oncology</i> , 2016 , 18, vi128-vi128	1	8
41	Hyperspectral Image segmentation and its application in abdominal surgery. <i>International Journal of Functional Informatics and Personalised Medicine</i> , 2009 , 2, 201		8
40	Correlations of atrial diameter and frontooccipital horn ratio with ventricle size in fetal ventriculomegaly. <i>Journal of Neurosurgery: Pediatrics</i> , 2017 , 19, 300-306	2.1	7
39	Hyperspectral imaging and spectral-spatial classification for cancer detection 2012 ,		7
38	Wavelet-Based Compression and Segmentation of Hyperspectral Images in Surgery. <i>Lecture Notes in Computer Science</i> , 2008 , 142-149	0.9	6
37	CD36 gene polymorphism rs1761667 (G > A) is associated with hypertension and coronary artery disease in an Iranian population. <i>BMC Cardiovascular Disorders</i> , 2019 , 19, 140	2.3	5

36	Non-invasive determination of the O6-methylguanine-DNA-methyltransferase (MGMT) promoter methylation status in glioblastoma (GBM) using magnetic resonance imaging (MRI).. <i>Journal of Clinical Oncology</i> , 2018 , 36, 2051-2051	2.2	5
35	MPTH-02. EXTRACELLULAR EGFR289 ACTIVATING MUTATIONS CONFER POORER SURVIVAL AND SUGGEST ENHANCED MOTILITY IN PRIMARY GBMs. <i>Neuro-Oncology</i> , 2016 , 18, vi105-vi106	1	5
34	Radiomic Features from Multi-Institutional Glioblastoma MRI Offer Additive Prognostic Value to Clinical and Genomic Markers: Focus on TCGA-GBM Collection. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 99, E107-E108	4	4
33	Arterial Spin Labeling and Dynamic Susceptibility Contrast-enhanced MR Imaging for evaluation of arteriovenous shunting and tumor hypoxia in glioblastoma. <i>Scientific Reports</i> , 2019 , 9, 8747	4.9	4
32	NIMG-59. RADIOLOGIC SUBTYPES OF GLIOBLASTOMA CALCULATED VIA MULTI-PARAMETRIC IMAGING SIGNATURES REVEAL COMPLEMENTARY INFORMATION TO CURRENT WHO CLASSIFICATION. <i>Neuro-Oncology</i> , 2017 , 19, vi155-vi156	1	4
31	NIMG-05IDENTIFICATION OF IMAGING SIGNATURES OF THE EPIDERMAL GROWTH FACTOR RECEPTOR VARIANT III (EGFRvIII) IN GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2015 , 17, v154.1-v154	1	4
30	Segmentation of Arteries in Minimally Invasive Surgery Using Change Detection. <i>IEICE Transactions on Information and Systems</i> , 2009 , E92-D, 498-505	0.6	4
29	A Deep Network for Joint Registration and Reconstruction of Images with Pathologies. <i>Lecture Notes in Computer Science</i> , 2020 , 12436, 342-352	0.9	4
28	Multi-institutional noninvasive in vivo characterization of , 1p/19q, and EGFRvIII in glioma using neuro-Cancer Imaging Phenomics Toolkit (neuro-CaPTk). <i>Neuro-Oncology Advances</i> , 2020 , 2, iv22-iv34	0.9	4
27	NIMG-11. HIGHLY-EXPRESSED WILD-TYPE EGFR AND EGFRvIII MUTANT GLIOBLASTOMAS HAVE SIMILAR MRI SIGNATURE, CONSISTENT WITH DEEP PERITUMORAL INFILTRATION. <i>Neuro-Oncology</i> , 2016 , 18, vi125-vi126	1	4
26	Multivariate Analysis of Preoperative Magnetic Resonance Imaging Reveals Transcriptomic Classification of Glioblastoma Patients. <i>Frontiers in Computational Neuroscience</i> , 2019 , 13, 81	3.5	4
25	135 Imaging Patterns Predict Patient Survival and Molecular Subtype in Glioblastoma Using Machine Learning Techniques. <i>Neurosurgery</i> , 2015 , 62, 209	3.2	3
24	SPAER: Sparse Deep Convolutional Autoencoder Model to Extract Low Dimensional Imaging Biomarkers for Early Detection of Breast Cancer Using Dynamic Thermography. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3248	2.6	3
23	Impartially Validated Multiple Deep-Chain Models to Detect COVID-19 in Chest X-ray Using Latent Space Radiomics. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	3
22	NIMG-41. ACCURATE AND GENERALIZABLE PRE-OPERATIVE PROGNOSTIC STRATIFICATION OF GLIOBLASTOMA PATIENTS USING INTEGRATIVE QUANTITATIVE RADIOMIC ANALYSIS OF CONVENTIONAL MRI. <i>Neuro-Oncology</i> , 2017 , 19, vi151-vi151	1	2
21	Automatic 3D Segmentation of the Kidney in MR Images Using Wavelet Feature Extraction and Probability Shape Model. <i>Proceedings of SPIE</i> , 2013 , 8314, 83143D	1.7	2
20	Technical note: a radiomic signature of infiltration in peritumoral edema predicts subsequent recurrence in glioblastoma 2018 ,		2
19	Radiomics-based identification of peritumoral infiltration in de novo glioblastoma imaging presents targets amenable for potential targeted extended resection: A neurosurgical survey.. <i>Journal of Clinical Oncology</i> , 2019 , 37, e13573-e13573	2.2	2

18	The effects of glucagon-like peptide-1 receptor agonists on glycemic control and anthropometric profiles among diabetic patients with non-alcoholic fatty liver disease: A systematic review and meta-analysis of randomized controlled trials. <i>European Journal of Pharmacology</i> , 2021 , 893, 173823	5.3	2
17	A Comprehensive Systematic Review and Meta-analysis on the Risk Factors of Stroke in Iranian Population. <i>Archives of Iranian Medicine</i> , 2021 , 24, 64-77	2.4	2
16	Association of C677T (rs1081133) and A1298C (rs1801131) Methylene tetrahydrofolate Reductase Variants with Breast Cancer Susceptibility Among Asians: A Systematic Review and Meta-Analysis. <i>Biochemical Genetics</i> , 2021 , 59, 367-397	2.4	2
15	Image-guided preparation of the Calot® triangle in laparoscopic cholecystectomy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 5649-52	0.9	1
14	Deriving stable multi-parametric MRI radiomic signatures in the presence of inter-scanner variations: survival prediction of glioblastoma via imaging pattern analysis and machine learning techniques 2018 ,		1
13	Integrative radiomic analysis for pre-surgical prognostic stratification of glioblastoma patients: from advanced to basic MRI protocols. <i>Proceedings of SPIE</i> , 2020 , 11315,	1.7	1
12	Patient-Specific Registration of Pre-operative and Post-recurrence Brain Tumor MRI Scans. <i>Lecture Notes in Computer Science</i> , 2019 , 11383, 105-114	0.9	1
11	NIMG-66. AI-BASED PROGNOSTIC IMAGING BIOMARKERS FOR PRECISION NEUROONCOLOGY AND THE RESPOND CONSORTIUM. <i>Neuro-Oncology</i> , 2020 , 22, ii162-ii163	1	1
10	Predicting pediatric optic pathway glioma progression using advanced magnetic resonance image analysis and machine learning. <i>Neuro-Oncology Advances</i> , 2020 , 2, vdaa090	0.9	1
9	A Systematic Review and Meta-analysis on Blood Lead Level in Opium Addicts: an Emerging Health Threat. <i>Biological Trace Element Research</i> , 2021 , 199, 3634-3641	4.5	1
8	Blood Trace Element Status in Multiple Sclerosis: a Systematic Review and Meta-analysis. <i>Biological Trace Element Research</i> , 2022 , 200, 13-26	4.5	1
7	Quantification of tumor microenvironment acidity in glioblastoma using principal component analysis of dynamic susceptibility contrast enhanced MR imaging. <i>Scientific Reports</i> , 2021 , 11, 15011	4.9	1
6	Metabolic and Physiologic MR Imaging in Distinguishing True Progression from Pseudoprogression in Patients with Glioblastoma.. <i>NMR in Biomedicine</i> , 2022 , e4719	4.4	1
5	Toxic heavy metal concentrations in multiple sclerosis patients: A systematic review and meta-analysis.. <i>EXCLI Journal</i> , 2021 , 20, 1571-1584	2.4	1
4	Leveraging machine learning predictive biomarkers to augment the statistical power of clinical trials with baseline magnetic resonance imaging. <i>Brain Communications</i> , 2021 , 3, fcab264	4.5	0
3	Can Estradiol and Ghrelin Play a Protective Role in Epithelial Ovarian Cancer Incidence in Postmenopausal Women?. <i>Archives of Medical Research</i> , 2021 , 52, 324-331	6.6	0
2	Estimating Glioblastoma Biophysical Growth Parameters Using Deep Learning Regression. <i>Lecture Notes in Computer Science</i> , 2021 , 12658, 157-167	0.9	0
1	Towards Population-Based Histologic Stain Normalization of Glioblastoma. <i>Lecture Notes in Computer Science</i> , 2020 , 11992, 44-56	0.9	

