

Hamed Akbari

List of Publications by Year in descending order

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96
papers

5,045
citations

159525

30
h-index

95218

68
g-index

98
all docs

98
docs citations

98
times ranked

5494
citing authors

#	ARTICLE	IF	CITATIONS
1	Advancing The Cancer Genome Atlas glioma MRI collections with expert segmentation labels and radiomic features. <i>Scientific Data</i> , 2017, 4, 170117.	2.4	1,555
2	Imaging patterns predict patient survival and molecular subtype in glioblastoma via machine learning techniques. <i>Neuro-Oncology</i> , 2016, 18, 417-425.	0.6	243
3	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.	0.9	206
4	Hyperspectral imaging and quantitative analysis for prostate cancer detection. <i>Journal of Biomedical Optics</i> , 2012, 17, 0760051.	1.4	199
5	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.	2.0	152
6	Detection and Analysis of the Intestinal Ischemia Using Visible and Invisible Hyperspectral Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 2011-2017.	2.5	145
7	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.	7.7	145
8	Cancer detection using infrared hyperspectral imaging. <i>Cancer Science</i> , 2011, 102, 852-857.	1.7	144
9	Comparative Evaluation of Registration Algorithms in Different Brain Databases With Varying Difficulty: Results and Insights. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 2039-2065.	5.4	144
10	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.	1.6	124
11	Imaging Surrogates of Infiltration Obtained Via Multiparametric Imaging Pattern Analysis Predict Subsequent Location of Recurrence of Glioblastoma. <i>Neurosurgery</i> , 2016, 78, 572-580.	0.6	116
12	Cancer imaging phenomics toolkit: quantitative imaging analytics for precision diagnostics and predictive modeling of clinical outcome. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	110
13	<i>In vivo</i> evaluation of EGFRvIII mutation in primary glioblastoma patients via complex multiparametric MRI signature. <i>Neuro-Oncology</i> , 2018, 20, 1068-1079.	0.6	90
14	Pattern Analysis of Dynamic Susceptibility Contrast-enhanced MR Imaging Demonstrates Peritumoral Tissue Heterogeneity. <i>Radiology</i> , 2014, 273, 502-510.	3.6	86
15	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, 1.	0.8	82
16	<i>In Vivo</i> Detection of EGFRvIII in Glioblastoma via Perfusion Magnetic Resonance Imaging Signature Consistent with Deep Peritumoral Infiltration: The <i>T</i> -Index. <i>Clinical Cancer Research</i> , 2017, 23, 4724-4734.	3.2	79
17	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.	1.5	73
18	Organochlorine and organophosphorous pesticides may induce colorectal cancer; A case-control study. <i>Ecotoxicology and Environmental Safety</i> , 2019, 178, 168-177.	2.9	68

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19	Local Response to Microneedle-Based Influenza Immunization in the Skin. <i>MBio</i> , 2012, 3, e00012-12.	1.8	64
20	Combining Generative Models for Multifocal Glioma Segmentation and Registration. <i>Lecture Notes in Computer Science</i> , 2014, 17, 763-770.	1.0	63
21	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.	1.0	61
22	Histopathology-validated machine learning radiographic biomarker for noninvasive discrimination between true progression and pseudo-progression in glioblastoma. <i>Cancer</i> , 2020, 126, 2625-2636.	2.0	60
23	Population-based MRI atlases of spatial distribution are specific to patient and tumor characteristics in glioblastoma. <i>NeuroImage: Clinical</i> , 2016, 12, 34-40.	1.4	49
24	Brain Lesions, Introduction. <i>Lecture Notes in Computer Science</i> , 2016, 9556, 1-5.	1.0	48
25	Detection of cancer metastasis using a novel macroscopic hyperspectral method. <i>Proceedings of SPIE</i> , 2012, 8317, 831711.	0.8	45
26	3D ultrasound image segmentation using wavelet support vector machines. <i>Medical Physics</i> , 2012, 39, 2972-2984.	1.6	42
27	Automated Tumor Volumetry Using Computer-Aided Image Segmentation. <i>Academic Radiology</i> , 2015, 22, 653-661.	1.3	39
28	PORTR: Pre-Operative and Post-Recurrence Brain Tumor Registration. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 651-667.	5.4	37
29	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.	2.0	35
30	The Cancer Imaging Phenomics Toolkit (CaPTk): Technical Overview. <i>Lecture Notes in Computer Science</i> , 2020, 11993, 380-394.	1.0	34
31	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.	1.0	32
32	AI-based prognostic imaging biomarkers for precision neuro-oncology: the ReSPOND consortium. <i>Neuro-Oncology</i> , 2020, 22, 886-888.	0.6	31
33	Applications of Radiomics and Radiogenomics in High-Grade Gliomas in the Era of Precision Medicine. <i>Cancers</i> , 2021, 13, 5921.	1.7	29
34	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.	1.0	27
35	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.	1.0	26
36	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, 1.	0.8	26

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37	Blood vessel detection and artery-vein differentiation using hyperspectral imaging. , 2009, 2009, 1461-4.		25
38	Reproducibility analysis of multi-institutional paired expert annotations and radiomic features of the Ivy Glioblastoma Atlas Project (Ivy GAP) dataset. Medical Physics, 2020, 47, 6039-6052.	1.6	25
39	3D non-rigid registration using surface and local salient features for transrectal ultrasound image-guided prostate biopsy. Proceedings of SPIE, 2011, 7964, 79642V.	0.8	24
40	Epigenetic modulation of <i>BRCA1</i> and <i>MGMT</i> genes, and histones H4 and H3 are associated with breast tumors. Journal of Cellular Biochemistry, 2019, 120, 13726-13736.	1.2	24
41	Serum levels of Organochlorine Pesticides and Breast Cancer Risk in Iranian Women. Archives of Environmental Contamination and Toxicology, 2019, 77, 480-489.	2.1	21
42	Use of Fetal Magnetic Resonance Image Analysis and Machine Learning to Predict the Need for Postnatal Cerebrospinal Fluid Diversion in Fetal Ventriculomegaly. JAMA Pediatrics, 2018, 172, 128.	3.3	20
43	Clinical measures, radiomics, and genomics offer synergistic value in AI-based prediction of overall survival in patients with glioblastoma. Scientific Reports, 2022, 12, .	1.6	20
44	3D segmentation of prostate ultrasound images using wavelet transform. Proceedings of SPIE, 2011, 7962, 79622K.	0.8	19
45	A molecular image-directed, 3D ultrasound-guided biopsy system for the prostate. Proceedings of SPIE, 2012, 2012, .	0.8	19
46	A novel method for artery detection in laparoscopic surgery. Surgical Endoscopy and Other Interventional Techniques, 2008, 22, 1672-1677.	1.3	17
47	Detecting Vasodilation as Potential Diagnostic Biomarker in Breast Cancer Using Deep Learning-Driven Thermomics. Biosensors, 2020, 10, 164.	2.3	16
48	Hyperspectral imaging and diagnosis of intestinal ischemia. , 2008, 2008, 1238-41.		15
49	Blood Trace Element Status in Multiple Sclerosis: a Systematic Review and Meta-analysis. Biological Trace Element Research, 2022, 200, 13-26.	1.9	15
50	Hyperspectral imaging and spectral-spatial classification for cancer detection. , 2012, , .		13
51	Correlations of atrial diameter and frontooccipital horn ratio with ventricle size in fetal ventriculomegaly. Journal of Neurosurgery: Pediatrics, 2017, 19, 300-306.	0.8	12
52	CD36 gene polymorphism rs1761667 (G > A) is associated with hypertension and coronary artery disease in an Iranian population. BMC Cardiovascular Disorders, 2019, 19, 140.	0.7	12
53	Multi-institutional noninvasive in vivo characterization of <i>IDH1</i> , 1p/19q, and EGFRvIII in glioma using neuro-Cancer Imaging Phenomics Toolkit (neuro-CaPTk). Neuro-Oncology Advances, 2020, 2, iv22-iv34.	0.4	12
54	Hyperspectral Image segmentation and its application in abdominal surgery. International Journal of Functional Informatics and Personalised Medicine, 2009, 2, 201.	0.4	11

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55	Metabolic and physiologic magnetic resonance imaging in distinguishing true progression from pseudoprogression in patients with glioblastoma. <i>NMR in Biomedicine</i> , 2022, 35, e4719.	1.6	11
56	NIMG-20. IMAGING PATTERN ANALYSIS REVEALS THREE DISTINCT PHENOTYPIC SUBTYPES OF GBM WITH DIFFERENT SURVIVAL RATES. <i>Neuro-Oncology</i> , 2016, 18, vi128-vi128.	0.6	10
57	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.	1.6	10
58	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.	1.7	10
59	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.	1.6	10
60	A PET/CT Directed, 3D Ultrasound-Guided Biopsy System for Prostate Cancer. <i>Lecture Notes in Computer Science</i> , 2011, 6363, 100-108.	1.0	10
61	Wavelet-Based Compression and Segmentation of Hyperspectral Images in Surgery. <i>Lecture Notes in Computer Science</i> , 2008, , 142-149.	1.0	9
62	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.	0.2	8
63	MPTH-02. EXTRACELLULAR EGFR289 ACTIVATING MUTATIONS CONFER POORER SURVIVAL AND SUGGEST ENHANCED MOTILITY IN PRIMARY GBMs. <i>Neuro-Oncology</i> , 2016, 18, vi105-vi106.	0.6	7
64	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.	1.3	7
65	A Deep Network for Joint Registration and Reconstruction of Images with Pathologies. <i>Lecture Notes in Computer Science</i> , 2020, 12436, 342-352.	1.0	7
66	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.	0.4	6
67	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, 3100.	1.0	6
68	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.	0.8	6
69	Patient-Specific Registration of Pre-operative and Post-recurrence Brain Tumor MRI Scans. <i>Lecture Notes in Computer Science</i> , 2019, 11383, 105-114.	1.0	6
70	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.	0.6	5
71	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.	0.6	5
72	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.	0.6	5

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73	Multivariate Analysis of Preoperative Magnetic Resonance Imaging Reveals Transcriptomic Classification of de novo Glioblastoma Patients. <i>Frontiers in Computational Neuroscience</i> , 2019, 13, 81.	1.2	5
74	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.	1.9	5
75	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.	0.8	5
76	Interactive Machine Learning-Based Multi-Label Segmentation of Solid Tumors and Organs. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7488.	1.3	5
77	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.	1.5	5
78	Toxic heavy metal concentrations in multiple sclerosis patients: A systematic review and meta-analysis. <i>EXCLI Journal</i> , 2021, 20, 1571-1584.	0.5	5
79	Segmentation of Arteries in Minimally Invasive Surgery Using Change Detection. <i>IEICE Transactions on Information and Systems</i> , 2009, E92-D, 498-505.	0.4	4
80	Automatic 3D segmentation of the kidney in MR images using wavelet feature extraction and probability shape model. <i>Proceedings of SPIE</i> , 2012, 8314, 83143D.	0.8	4
81	135â€ŒImaging Patterns Predict Patient Survival and Molecular Subtype in Glioblastoma Using Machine Learning Techniques. <i>Neurosurgery</i> , 2015, 62, 209.	0.6	4
82	Predicting pediatric optic pathway glioma progression using advanced magnetic resonance image analysis and machine learning. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa090.	0.4	4
83	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.	0.8	4
84	Abstract 1392: Machine Learning Radiomic Biomarkers Non-invasively Assess Genetic Characteristics of Glioma Patients. <i>Cancer Research</i> , 2019, 79, 1392-1392.	0.4	4
85	Integrative radiomic analysis for pre-surgical prognostic stratification of glioblastoma patients: from advanced to basic MRI protocols. , 2020, 11315, .		4
86	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.	0.6	3
87	NIMG-66. AI-BASED PROGNOSTIC IMAGING BIOMARKERS FOR PRECISION NEUROONCOLOGY AND THE RESPOND CONSORTIUM. <i>Neuro-Oncology</i> , 2020, 22, ii162-ii163.	0.6	3
88	Towards Population-Based Histologic Stain Normalization of Glioblastoma. <i>Lecture Notes in Computer Science</i> , 2020, 11992, 44-56.	1.0	3
89	Image-guided preparation of the calot's triangle in laparoscopic cholecystectomy. , 2009, 2009, 5649-52.		2
90	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.	1.5	2

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91	Technical note: a radiomic signature of infiltration in peritumoral edema predicts subsequent recurrence in glioblastoma. , 2018, , .		2
92	NIMG-07. UNIFYING MAGNETIC RESONANCE IMAGING SIGNATURE OF EGFR PATHWAY ACTIVATION IN GLIOBLASTOMA CONSISTENT WITH UNIFORMLY AGGRESSIVELY INFILTRATION. Neuro-Oncology, 2017, 19, vi143-vi143.	0.6	1
93	Estimating Glioblastoma Biophysical Growth Parameters Using Deep Learning Regression. Lecture Notes in Computer Science, 2021, 12658, 157-167.	1.0	1
94	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
95	Abstract 1494: Non-invasive prediction of molecular subtype in glioblastoma using multi-parametric magnetic resonance imaging pattern analysis and machine learning. Cancer Research, 2015, 75, 1494-1494.	0.4	0
96	Non-invasive transcriptomic classification of de novo Glioblastoma patients through multivariate quantitative analysis of baseline preoperative multimodal magnetic resonance imaging. , 2019, , .		0