Hamed Akbari

List of Publications by Year in Descending Order

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	Blood Trace Element Status in Multiple Sclerosis: a Systematic Review and Meta-analysis. *Biological Trace Element Research*, **2022**, 200, 13-26	4.5	1
88	Metabolic and Physiologic MR Imaging in Distinguishing True Progression from Pseudoprogression in Patients with Glioblastoma.. *NMR in Biomedicine*, **2022**, e4719	4.4	1
87	Leveraging machine learning predictive biomarkers to augment the statistical power of clinical trials with baseline magnetic resonance imaging. *Brain Communications*, **2021**, 3, fcab264	4.5	0
86	A Systematic Review and Meta-analysis on Blood Lead Level in Opium Addicts: an Emerging Health Threat. *Biological Trace Element Research*, **2021**, 199, 3634-3641	4.5	1
85	SPAER: Sparse Deep Convolutional Autoencoder Model to Extract Low Dimensional Imaging Biomarkers for Early Detection of Breast Cancer Using Dynamic Thermography. *Applied Sciences (Switzerland)*, **2021**, 11, 3248	2.6	3
84	Can Estradiol and Ghrelin Play a Protective Role in Epithelial Ovarian Cancer Incidence in Postmenopausal Women?. *Archives of Medical Research*, **2021**, 52, 324-331	6.6	0
83	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. *European Journal of Pharmacology*, **2021**, 893, 173823	5.3	2
82	A Comprehensive Systematic Review and Meta-analysis on the Risk Factors of Stroke in Iranian Population. *Archives of Iranian Medicine*, **2021**, 24, 64-77	2.4	2
81	Estimating Glioblastoma Biophysical Growth Parameters Using Deep Learning Regression. *Lecture Notes in Computer Science*, **2021**, 12658, 157-167	0.9	0
80	Association of C677T (rs1081133) and A1298C (rs1801131) Methylenetetrahydrofolate Reductase Variants with Breast Cancer Susceptibility Among Asians: A Systematic Review and Meta-Analysis. *Biochemical Genetics*, **2021**, 59, 367-397	2.4	2
79	Quantification of tumor microenvironment acidity in glioblastoma using principal component analysis of dynamic susceptibility contrast enhanced MR imaging. *Scientific Reports*, **2021**, 11, 15011	4.9	1
78	Impartially Validated Multiple Deep-Chain Models to Detect COVID-19 in Chest X-ray Using Latent Space Radiomics. *Journal of Clinical Medicine*, **2021**, 10,	5.1	3
77	Toxic heavy metal concentrations in multiple sclerosis patients: A systematic review and meta-analysis.. *EXCLI Journal*, **2021**, 20, 1571-1584	2.4	1
76	Laboratory Findings of COVID-19 Infection are Conflicting in Different Age Groups and Pregnant Women: A Literature Review. *Archives of Medical Research*, **2020**, 51, 603-607	6.6	40
75	AI-based prognostic imaging biomarkers for precision neuro-oncology: the ReSPOND consortium. *Neuro-Oncology*, **2020**, 22, 886-888	1	14
74	Cancer Imaging Phenomics via CaPTk: Multi-Institutional Prediction of Progression-Free Survival and Pattern of Recurrence in Glioblastoma. *JCO Clinical Cancer Informatics*, **2020**, 4, 234-244	5.2	12
73	Histopathology-validated machine learning radiographic biomarker for noninvasive discrimination between true progression and pseudo-progression in glioblastoma. *Cancer*, **2020**, 126, 2625-2636	6.4	30

72	Overall survival prediction in glioblastoma patients using structural magnetic resonance imaging (MRI): advanced radiomic features may compensate for lack of advanced MRI modalities. *Journal of Medical Imaging*, **2020**, 7, 031505	2.6	11
71	A Deep Network for Joint Registration and Reconstruction of Images with Pathologies. *Lecture Notes in Computer Science*, **2020**, 12436, 342-352	0.9	4
70	Towards Population-Based Histologic Stain Normalization of Glioblastoma. *Lecture Notes in Computer Science*, **2020**, 11992, 44-56	0.9	
69	Integrative radiomic analysis for pre-surgical prognostic stratification of glioblastoma patients: from advanced to basic MRI protocols. *Proceedings of SPIE*, **2020**, 11315,	1.7	1
68	Multi-institutional noninvasive in vivo characterization of , 1p/19q, and EGFRvIII in glioma using neuro-Cancer Imaging Phenomics Toolkit (neuro-CaPTk). *Neuro-Oncology Advances*, **2020**, 2, iv22-iv34	0.9	4
67	The Cancer Imaging Phenomics Toolkit (CaPTk): Technical Overview. *Lecture Notes in Computer Science*, **2020**, 11993, 380-394	0.9	12
66	NIMG-66. AI-BASED PROGNOSTIC IMAGING BIOMARKERS FOR PRECISION NEUROONCOLOGY AND THE RESPOND CONSORTIUM. *Neuro-Oncology*, **2020**, 22, ii162-ii163	1	1
65	Predicting pediatric optic pathway glioma progression using advanced magnetic resonance image analysis and machine learning. *Neuro-Oncology Advances*, **2020**, 2, vdaa090	0.9	1
64	Detecting Vasodilation as Potential Diagnostic Biomarker in Breast Cancer Using Deep Learning-Driven Thermomics. *Biosensors*, **2020**, 10,	5.9	10
63	The role of cytokine profile and lymphocyte subsets in the severity of coronavirus disease 2019 (COVID-19): A systematic review and meta-analysis. *Life Sciences*, **2020**, 258, 118167	6.8	81
62	Laboratory features of severe vs. non-severe COVID-19 patients in Asian populations: a systematic review and meta-analysis. *European Journal of Medical Research*, **2020**, 25, 30	4.8	101
61	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	4.4	10
60	Arterial Spin Labeling and Dynamic Susceptibility Contrast-enhanced MR Imaging for evaluation of arteriovenous shunting and tumor hypoxia in glioblastoma. *Scientific Reports*, **2019**, 9, 8747	4.9	4
59	CD36 gene polymorphism rs1761667 (G > A) is associated with hypertension and coronary artery disease in an Iranian population. *BMC Cardiovascular Disorders*, **2019**, 19, 140	2.3	5
58	Organochlorine and organophosphorous pesticides may induce colorectal cancer; A case-control study. *Ecotoxicology and Environmental Safety*, **2019**, 178, 168-177	7	37
57	Epigenetic modulation of BRCA-1 and MGMT genes, and histones H4 and H3 are associated with breast tumors. *Journal of Cellular Biochemistry*, **2019**, 120, 13726-13736	4.7	10
56	Serum levels of Organochlorine Pesticides and Breast Cancer Risk in Iranian Women. *Archives of Environmental Contamination and Toxicology*, **2019**, 77, 480-489	3.2	13
55	Patient-Specific Registration of Pre-operative and Post-recurrence Brain Tumor MRI Scans. *Lecture Notes in Computer Science*, **2019**, 11383, 105-114	0.9	1

54	Radiomics-based identification of peritumoral infiltration in de novo glioblastoma imaging presents targets amenable for potential targeted extended resection: A neurosurgical survey.. *Journal of Clinical Oncology*, **2019**, 37, e13573-e13573	2.2	2
53	Multivariate Analysis of Preoperative Magnetic Resonance Imaging Reveals Transcriptomic Classification of Glioblastoma Patients. *Frontiers in Computational Neuroscience*, **2019**, 13, 81	3.5	4
52	Brain Cancer Imaging Phenomics Toolkit (brain-CaPTk): An Interactive Platform for Quantitative Analysis of Glioblastoma. *Lecture Notes in Computer Science*, **2018**, 10670, 133-145	0.9	15
51	Radiomic MRI signature reveals three distinct subtypes of glioblastoma with different clinical and molecular characteristics, offering prognostic value beyond IDH1. *Scientific Reports*, **2018**, 8, 5087	4.9	83
50	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, 128-135	8.3	12
49	In vivo evaluation of EGFRvIII mutation in primary glioblastoma patients via complex multiparametric MRI signature. *Neuro-Oncology*, **2018**, 20, 1068-1079	1	55
48	Epidermal Growth Factor Receptor Extracellular Domain Mutations in Glioblastoma Present Opportunities for Clinical Imaging and Therapeutic Development. *Cancer Cell*, **2018**, 34, 163-177.e7	24.3	79
47	Association of polymorphisms of leptin, leptin receptor and apelin receptor genes with susceptibility to coronary artery disease and hypertension. *Life Sciences*, **2018**, 207, 166-171	6.8	19
46	Cancer imaging phenomics toolkit: quantitative imaging analytics for precision diagnostics and predictive modeling of clinical outcome. *Journal of Medical Imaging*, **2018**, 5, 011018	2.6	64
45	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
44	Non-invasive determination of the O6-methylguanine-DNA-methyltransferase (MGMT) promoter methylation status in glioblastoma (GBM) using magnetic resonance imaging (MRI).. *Journal of Clinical Oncology*, **2018**, 36, 2051-2051	2.2	5
43	Technical note: a radiomic signature of infiltration in peritumoral edema predicts subsequent recurrence in glioblastoma **2018**,		2
42	Radiomic signature of infiltration in peritumoral edema predicts subsequent recurrence in glioblastoma: implications for personalized radiotherapy planning. *Journal of Medical Imaging*, **2018** , 5, 021219	2.6	44
41	Correlations of atrial diameter and frontooccipital horn ratio with ventricle size in fetal ventriculomegaly. *Journal of Neurosurgery: Pediatrics*, **2017**, 19, 300-306	2.1	7
40	Detection of EGFRvIII in Glioblastoma via Perfusion Magnetic Resonance Imaging Signature Consistent with Deep Peritumoral Infiltration: The -Index. *Clinical Cancer Research*, **2017**, 23, 4724-4734	12.9	57
39	Radiomic Features from Multi-Institutional Glioblastoma MRI Offer Additive Prognostic Value to Clinical and Genomic Markers: Focus on TCGA-GBM Collection. *International Journal of Radiation Oncology Biology Physics*, **2017**, 99, E107-E108	4	4
38	Advancing The Cancer Genome Atlas glioma MRI collections with expert segmentation labels and radiomic features. *Scientific Data*, **2017**, 4, 170117	8.2	893
37	NIMG-59. RADIOLOGIC SUBTYPES OF GLIOBLASTOMA CALCULATED VIA MULTI-PARAMETRIC IMAGING SIGNATURES REVEAL COMPLEMENTARY INFORMATION TO CURRENT WHO CLASSIFICATION. *Neuro-Oncology*, **2017**, 19, vi155-vi156	1	4

36	NIMG-41. ACCURATE AND GENERALIZABLE PRE-OPERATIVE PROGNOSTIC STRATIFICATION OF GLIOBLASTOMA PATIENTS USING INTEGRATIVE QUANTITATIVE RADIOMIC ANALYSIS OF CONVENTIONAL MRI. *Neuro-Oncology*, **2017**, 19, vi151-vi151	1	2
35	Imaging patterns predict patient survival and molecular subtype in glioblastoma via machine learning techniques. *Neuro-Oncology*, **2016**, 18, 417-25	1	174
34	NIMG-20. IMAGING PATTERN ANALYSIS REVEALS THREE DISTINCT PHENOTYPIC SUBTYPES OF GBM WITH DIFFERENT SURVIVAL RATES. *Neuro-Oncology*, **2016**, 18, vi128-vi128	1	8
33	GLISTRboost: Combining Multimodal MRI Segmentation, Registration, and Biophysical Tumor Growth Modeling with Gradient Boosting Machines for Glioma Segmentation. *Lecture Notes in Computer Science*, **2016**, 9556, 144-155	0.9	41
32	NIMG-11. HIGHLY-EXPRESSED WILD-TYPE EGFR AND EGFRvIII MUTANT GLIOBLASTOMAS HAVE SIMILAR MRI SIGNATURE, CONSISTENT WITH DEEP PERITUMORAL INFILTRATION. *Neuro-Oncology*, **2016**, 18, vi125-vi126	1	4
31	MPTH-02. EXTRACELLULAR EGFR289 ACTIVATING MUTATIONS CONFER POORER SURVIVAL AND SUGGEST ENHANCED MOTILITY IN PRIMARY GBMs. *Neuro-Oncology*, **2016**, 18, vi105-vi106	1	5
30	Imaging Surrogates of Infiltration Obtained Via Multiparametric Imaging Pattern Analysis Predict Subsequent Location of Recurrence of Glioblastoma. *Neurosurgery*, **2016**, 78, 572-80	3.2	84
29	Segmentation of Gliomas in Pre-operative and Post-operative Multimodal Magnetic Resonance Imaging Volumes Based on a Hybrid Generative-Discriminative Framework. *Lecture Notes in Computer Science*, **2016**, 10154, 184-194	0.9	19
28	Population-based MRI atlases of spatial distribution are specific to patient and tumor characteristics in glioblastoma. *NeuroImage: Clinical*, **2016**, 12, 34-40	5.3	36
27	GLISTRboost: Combining Multimodal MRI Segmentation, Registration, and Biophysical Tumor Growth Modeling with Gradient Boosting Machines for Glioma Segmentation. *Lecture Notes in Computer Science*, **2016**, 144-155	0.9	28
26	Automated tumor volumetry using computer-aided image segmentation. *Academic Radiology*, **2015** , 22, 653-661	4.3	33
25	135 Imaging Patterns Predict Patient Survival and Molecular Subtype in Glioblastoma Using Machine Learning Techniques. *Neurosurgery*, **2015**, 62, 209	3.2	3
24	NIMG-05IDENTIFICATION OF IMAGING SIGNATURES OF THE EPIDERMAL GROWTH FACTOR RECEPTOR VARIANT III (EGFRvIII) IN GLIOBLASTOMA. *Neuro-Oncology*, **2015**, 17, v154.1-v154	1	4
23	Comparative evaluation of registration algorithms in different brain databases with varying difficulty: results and insights. *IEEE Transactions on Medical Imaging*, **2014**, 33, 2039-65	11.7	97
22	PORTR: Pre-operative and post-recurrence brain tumor registration. *IEEE Transactions on Medical Imaging*, **2014**, 33, 651-67	11.7	26
21	Pattern analysis of dynamic susceptibility contrast-enhanced MR imaging demonstrates peritumoral tissue heterogeneity. *Radiology*, **2014**, 273, 502-10	20.5	69
20	Combining generative models for multifocal glioma segmentation and registration. *Lecture Notes in Computer Science*, **2014**, 17, 763-70	0.9	45
19	Automatic 3D Segmentation of the Kidney in MR Images Using Wavelet Feature Extraction and Probability Shape Model. *Proceedings of SPIE*, **2013**, 8314, 83143D	1.7	2

18	Hyperspectral imaging and spectral-spatial classification for cancer detection **2012**,		7
17	Detection of Cancer Metastasis Using a Novel Macroscopic Hyperspectral Method. *Proceedings of SPIE*, **2012**, 8317, 831711	1.7	39
16	Hyperspectral imaging and quantitative analysis for prostate cancer detection. *Journal of Biomedical Optics*, **2012**, 17, 076005	3.5	149
15	Local response to microneedle-based influenza immunization in the skin. *MBio*, **2012**, 3, e00012-12	7.8	61
14	A Molecular Image-directed, 3D Ultrasound-guided Biopsy System for the Prostate. *Proceedings of SPIE*, **2012**, 2012,	1.7	18
13	3D ultrasound image segmentation using wavelet support vector machines. *Medical Physics*, **2012**, 39, 2972-84	4.4	36
12	Cancer detection using infrared hyperspectral imaging. *Cancer Science*, **2011**, 102, 852-7	6.9	109
11	3D Segmentation of Prostate Ultrasound images Using Wavelet Transform. *Proceedings of SPIE*, **2011**, 7962, 79622K	1.7	17
10	3D Non-rigid Registration Using Surface and Local Salient Features for Transrectal Ultrasound Image-guided Prostate Biopsy. *Proceedings of SPIE*, **2011**, 7964, 79642V	1.7	22
9	A PET/CT Directed, 3D Ultrasound-Guided Biopsy System for Prostate Cancer. *Lecture Notes in Computer Science*, **2011**, 6363, 100-108	0.9	9
8	Detection and analysis of the intestinal ischemia using visible and invisible hyperspectral imaging. *IEEE Transactions on Biomedical Engineering*, **2010**, 57, 2011-7	5	107
7	Blood vessel detection and artery-vein differentiation using hyperspectral imaging. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 1461-4	0.9	14
6	Image-guided preparation of the Calot triangle in laparoscopic cholecystectomy. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 5649-52	0.9	1
5	Hyperspectral Image segmentation and its application in abdominal surgery. *International Journal of Functional Informatics and Personalised Medicine*, **2009**, 2, 201		8
4	Segmentation of Arteries in Minimally Invasive Surgery Using Change Detection. *IEICE Transactions on Information and Systems*, **2009**, E92-D, 498-505	0.6	4
3	Hyperspectral imaging and diagnosis of intestinal ischemia. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2008**, 2008, 1238-41	0.9	9
2	Wavelet-Based Compression and Segmentation of Hyperspectral Images in Surgery. *Lecture Notes in Computer Science*, **2008**, 142-149	0.9	6
1	A novel method for artery detection in laparoscopic surgery. *Surgical Endoscopy and Other Interventional Techniques*, **2008**, 22, 1672-7	5.2	12