Reza Forghani

List of Publications by Year
in descending order

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87 papers	3,966 citations	159585 30 h-index	123424 61 g-index
88 all docs	88 docs citations	88 times ranked	6241 citing authors

#	Article	IF	Citations
1	Automatic "pipeline" analysis of 3-D MRI data for clinical trials: application to multiple sclerosis. IEEE Transactions on Medical Imaging, 2002, 21, 1280-1291.	8.9	679
2	Origins of tumor-associated macrophages and neutrophils. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2491-2496.	7.1	547
3	Measuring Myeloperoxidase Activity in Biological Samples. PLoS ONE, 2013, 8, e67976.	2.5	265
4	Angiotensin II Drives the Production of Tumor-Promoting Macrophages. Immunity, 2013, 38, 296-308.	14.3	157
5	Endometrial Carcinoma: MR Imagingâ€“based Texture Model for Preoperative Risk Stratificationâ€”A Preliminary Analysis. Radiology, 2017, 284, 748-757.	7.3	139
6	Radiomics and Artificial Intelligence for Biomarker and Prediction Model Development in Oncology. Computational and Structural Biotechnology Journal, 2019, 17, 995-1008.	4.1	124
7	Ocular Adnexal Lymphoma: Diffusion-weighted MR Imaging for Differential Diagnosis and Therapeutic Monitoring. Radiology, 2010, 256, 565-574.	7.3	100
8	Dual-Energy Computed Tomography. Neuroimaging Clinics of North America, 2017, 27, 371-384.	1.0	97
9	Automatic quantification of MS lesions in 3D MRI brain data sets: Validation of INSECT. Lecture Notes in Computer Science, 1998, , 439-448.	1.3	88
10	Optimal Virtual Monochromatic Images for Evaluation of Normal Tissues and Head and Neck Cancer Using Dual-Energy CT. American Journal of Neuroradiology, 2015, 36, 1518-1524.	2.4	85
11	Demyelinating Diseases: Myeloperoxidase as an Imaging Biomarker and Therapeutic Target. Radiology, 2012, 263, 451-460.	7.3	81
12	Head and neck squamous cell carcinoma: prediction of cervical lymph node metastasis by dual-energy CT texture analysis with machine learning. European Radiology, 2019, 29, 6172-6181.	4.5	79
13	A Combinatorial Network of Evolutionarily ConservedMyelin Basic ProteinRegulatory Sequences Confers Distinct Glial-Specific Phenotypes. Journal of Neuroscience, 2003, 23, 10214-10223.	3.6	77
14	Dual-Energy Computed Tomography. Neuroimaging Clinics of North America, 2017, 27, 385-400.	1.0	67
15	Myeloperoxidase Propagates Damage and is a Potential Therapeutic Target for Subacute Stroke. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 485-493.	4.3	66
16	Brief History of Artificial Intelligence. Neuroimaging Clinics of North America, 2020, 30, 393-399.	1.0	63
17	Dual-Energy CT Texture Analysis With Machine Learning for the Evaluation and Characterization of Cervical Lymphadenopathy. Computational and Structural Biotechnology Journal, 2019, 17, 1009-1015.	4.1	60
18	Machine Learning Algorithm Validation. Neuroimaging Clinics of North America, 2020, 30, 433-445.	1.0	55

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19	Spectral multi-energy CT texture analysis with machine learning for tissue classification: an investigation using classification of benign parotid tumours as a testing paradigm. European Radiology, 2018, 28, 2604-2611.	4.5	53
20	A Distal Upstream Enhancer from theMyelin Basic ProteinGene Regulates Expression in Myelin-Forming Schwann Cells. Journal of Neuroscience, 2001, 21, 3780-3787.	3.6	51
21	Multiparametric Evaluation of Head and Neck Squamous Cell Carcinoma Using a Single-Source Dual-Energy CT with Fast kVp Switching: State of the Art. Cancers, 2015, 7, 2201-2216.	3.7	46
22	Bing-Neel Syndrome Revisited. Clinical Lymphoma and Myeloma, 2009, 9, 104-106.	1.4	42
23	PET/CT radiomics signature of human papilloma virus association in oropharyngeal squamous cell carcinoma. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2978-2991.	6.4	40
24	Functional Organization of a Schwann Cell Enhancer. Journal of Neuroscience, 2005, 25, 11210-11217.	3.6	39
25	Adenosine antagonists have differential effects on induction of long-term potentiation in hippocampal slices. Hippocampus, 1995, 5, 71-77.	1.9	37
26	Imaging evaluation of lymphadenopathy and patterns of lymph node spread in head and neck cancer. Expert Review of Anticancer Therapy, 2015, 15, 207-224.	2.4	37
27	Low-Energy Virtual Monochromatic Dual-Energy Computed Tomography Images for the Evaluation of Head and Neck Squamous Cell Carcinoma: A Study of Tumor Visibility Compared With Single-Energy Computed Tomography and User Acceptance. Journal of Computer Assisted Tomography, 2017, 41, 565-571.	0.9	37
28	Potential Added Value of PET/CT Radiomics for Survival Prognostication beyond AJCC 8th Edition Staging in Oropharyngeal Squamous Cell Carcinoma. Cancers, 2020, 12, 1778.	3.7	36
29	Advanced dual-energy CT for head and neck cancer imaging. Expert Review of Anticancer Therapy, 2015, 15, 1489-1501.	2.4	34
30	An update on advanced dual-energy CT for head and neck cancer imaging. Expert Review of Anticancer Therapy, 2019, 19, 633-644.	2.4	33
31	Novel Diagnostic Approaches in Bing-Neel Syndrome. Clinical Lymphoma, Myeloma and Leukemia, 2011, 11, 180-183.	0.4	31
32	Overview of Machine Learning: Part 2. Neuroimaging Clinics of North America, 2020, 30, 417-431.	1.0	31
33	Artificial Intelligence Applications for Workflow, Process Optimization and Predictive Analytics. Neuroimaging Clinics of North America, 2020, 30, e1-e15.	1.0	30
34	Development and Validation of Multiparametric MRIâ€“based Radiomics Models for Preoperative Risk Stratification of Endometrial Cancer. Radiology, 2022, 305, 375-386.	7.3	30
35	Applications of Dual-Energy Computed Tomography for the Evaluation of Head and Neck Squamous Cell Carcinoma. Neuroimaging Clinics of North America, 2017, 27, 445-459.	1.0	29
36	Image-based biomarkers for solid tumor quantification. European Radiology, 2019, 29, 5431-5440.	4.5	29

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37	Spot and Diffuse Signs: Quantitative Markers of Intracranial Hematoma Expansion at Dual-Energy CT. Radiology, 2019, 290, 179-186.	7.3	27
38	Precision Digital Oncology: Emerging Role of Radiomics-based Biomarkers and Artificial Intelligence for Advanced Imaging and Characterization of Brain Tumors. Radiology Imaging Cancer, 2020, 2, e190047.	1.6	26
39	3-phase dual-energy CT scan as a feasible salvage imaging modality for the identification of non-localizing parathyroid adenomas: A prospective study. Journal of Otolaryngology - Head and Neck Surgery, 2015, 44, 44.	1.9	23
40	Advanced Tissue Characterization and Texture Analysis Using Dual-Energy Computed Tomography. Neuroimaging Clinics of North America, 2017, 27, 533-546.	1.0	23
41	Overview of Machine Learning Part 1. Neuroimaging Clinics of North America, 2020, 30, e17-e32.	1.0	23
42	Fourth Ventricle Epidermoid Tumor: Radiologic, Intraoperative, and Pathologic Findings. Radiographics, 2007, 27, 1489-1494.	3.3	22
43	Adverse Effects of Gadolinium-Based Contrast Agents. Topics in Magnetic Resonance Imaging, 2016, 25, 163-169.	1.2	22
44	Dual-Energy CT Characteristics of Parathyroid Adenomas on 25-and 55-Second 4D-CT Acquisitions. Journal of Computer Assisted Tomography, 2016, 40, 806-814.	0.9	21
45	Spectral Computed Tomography. Magnetic Resonance Imaging Clinics of North America, 2018, 26, 1-17.	1.1	21
46	Computed Tomography Appearance of Normal Nonossified Thyroid Cartilage. Journal of Computer Assisted Tomography, 2015, 39, 240-243.	0.9	19
47	Prediction of post-radiotherapy locoregional progression in HPV-associated oropharyngeal squamous cell carcinoma using machine-learning analysis of baseline PET/CT radiomics. Translational Oncology, 2021, 14, 100906.	3.7	19
48	Dual-Energy CT. Journal of Computer Assisted Tomography, 2017, 41, 931-936.	0.9	18
49	Ligation of the Jugular Veins Does Not Result in Brain Inflammation or Demyelination in Mice. PLoS ONE, 2012, 7, e33671.	2.5	18
50	Indicators of a Reduced Intercarotid Artery Distance in Patients Undergoing Endoscopic Transsphenoidal Surgery. Journal of Neurological Surgery, Part B: Skull Base, 2015, 76, 195-201.	0.8	16
51	Dual Energy Computed Tomography in Head and Neck Imaging. Neuroimaging Clinics of North America, 2020, 30, 311-323.	1.0	14
52	Malignancy risk stratification of cystic renal lesions based on a contrast-enhanced CT-based machine learning model and a clinical decision algorithm. European Radiology, 2022, 32, 4116-4127.	4.5	13
53	Transoral robotic surgery for head and neck malignancies: Imaging features in presurgical workup. Head and Neck, 2019, 41, 4018-4025.	2.0	12
54	Comparison of virtual monochromatic series, iodine overlay maps, and single energy CT equivalent images in head and neck cancer conspicuity. Clinical Imaging, 2018, 48, 26-31.	1.5	11

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55	Machine Learning Applications for Head and Neck Imaging. Neuroimaging Clinics of North America, 2020, 30, 517-529.	1.0	11
56	Differentiation of lymphomatous, metastatic, and non-malignant lymphadenopathy in the neck with quantitative diffusion-weighted imaging: systematic review and meta-analysis. Neuroradiology, 2019, 61, 897-910.	2.2	10
57	CT-based radiomics model with machine learning for predicting primary treatment failure in diffuse large B-cell Lymphoma. Translational Oncology, 2021, 14, 101188.	3.7	9
58	Multimodal Molecular Imaging Demonstrates Myeloperoxidase Regulation of Matrix Metalloproteinase Activity in Neuroinflammation. Molecular Neurobiology, 2019, 56, 954-962.	4.0	8
59	Investigation of thyroid nodules: A practical algorithm and review of guidelines. Head and Neck, 2018, 40, 1861-1873.	2.0	7
60	CRISPS: A Pictorial Essay of an Acronym to Interpreting Metastatic Head and Neck Lymphadenopathy. Canadian Association of Radiologists Journal, 2014, 65, 232-241.	2.0	6
61	Routine Dual-Energy Computed Tomography Scanning of the Neck in Clinical Practice. Neuroimaging Clinics of North America, 2017, 27, 523-531.	1.0	6
62	Dual-Energy Computed Tomography of the Neck. Neuroimaging Clinics of North America, 2017, 27, 499-522.	1.0	6
63	Knowledge Based Versus Data Based. Neuroimaging Clinics of North America, 2020, 30, 401-415.	1.0	6
64	Investigating the impact of the CT Hounsfield unit range on radiomic feature stability using dual energy CT data. Physica Medica, 2021, 88, 272-277.	0.7	6
65	Above and Beyond Age: Prediction of Major Postoperative Adverse Events in Head and Neck Surgery. Annals of Otology, Rhinology and Laryngology, 2022, 131, 697-703.	1.1	6
66	Radiomics and machine learning for the diagnosis of pediatric cervical non-tuberculous mycobacterial lymphadenitis. Scientific Reports, 2022, 12, 2962.	3.3	6
67	Site-Specific Variation in Radiomic Features of Head and Neck Squamous Cell Carcinoma and Its Impact on Machine Learning Models. Cancers, 2021, 13, 3723.	3.7	5
68	Pathology of the Oral Region. , 2011, , 1643-1748.		5
69	Importance of sex and gender factors for COVID-19 infection and hospitalisation: a sex-stratified analysis using machine learning in UK Biobank data. BMJ Open, 2022, 12, e050450.	1.9	5
70	Practice variations in salivary gland imaging and utility of virtual unenhanced dual energy CT images for the detection of major salivary gland stones. Acta Radiologica, 2019, 60, 1144-1152.	1.1	4
71	Can activated titanium interbody cages accelerate or enhance spinal fusion? a review of the literature and a design for clinical trials. Journal of Materials Science: Materials in Medicine, 2022, 33, 1.	3.6	4
72	MBP-lacZTransgene Expression in Juvenile and AdultTrembler-JMice. Annals of the New York Academy of Sciences, 1999, 883, 538-539.	3.8	3

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73	Dual-Energy Computed Tomography in Neuroradiology and Head and Neck Imaging: State-of-the-Art. Neuroimaging Clinics of North America, 2017, 27, xvii-xviii.	1.0	3
74	Improved Detection of Chronic Obstructive Pulmonary Disease at Chest CT Using the Mean Curvature of Isophotes. Radiology: Artificial Intelligence, 2022, 4, e210105.	5.8	2
75	Clinical Applications of Diffusion. , 2011, , 13-52.		1
76	Analysis of Potential Determinants of a Reduced Intercarotid Distance in Patients Undergoing Endoscopic Transsphenoidal Surgery. Otolaryngology - Head and Neck Surgery, 2014, 151, P111-P111.	1.9	1
77	Styloid Process Osteoradionecrosis: Report of 3 Cases. Journal of Computer Assisted Tomography, 2019, 43, 472-474.	0.9	1
78	Patient-Centric Head and Neck Cancer Radiation Therapy. Neuroimaging Clinics of North America, 2020, 30, 341-357.	1.0	1
79	Machine Intelligence in Neurologic and Head and Neck Imaging. Neuroimaging Clinics of North America, 2020, 30, xvii-xviii.	1.0	1
80	Prediction of High-Risk Group of Primary Refractory Diffuse Large B-Cell Lymphoma (DLBCL) Patients Using a CT-Based Radiomics Model with Machine Learning. Blood, 2019, 134, 4136-4136.	1.4	1
81	Dual Energy CT: Applications in Head and Neck and Neurologic Imaging. Neuroimaging Clinics of North America, 2017, 27, i.	1.0	0
82	Advanced Computed Tomography Techniques: Overview of Dual-Energy CT. Journal of Pediatric Neurology, 2018, 16, 061-071.	0.2	0
83	CRISPS â€“ An Easy Acronym to Interpreting Metastatic Neck Lymphadenopathy. Journal of Neurological Surgery, Part B: Skull Base, 2014, 75, .	0.8	0
84	Radiological Prediction of Skull Base Meningioma Consistency for Endoscopic Resection. Journal of Neurological Surgery, Part B: Skull Base, 2015, 76, .	0.8	0
85	Sparse Bayesian predictive modelling of tumour response using radiomic features. Stat, 2022, 11, .	0.4	0
86	Molecular immunoâ€imaging improves tumor detection in head and neck cancer. FASEB Journal, 2022, 36, e22092.	0.5	0
87	PET/CT radiomics potentially improves progression-free survival (PFS) and overall survival (OS) prognostication beyond UICC TNM staging in oropharyngeal squamous cell carcinoma (OPSCC) patients. Laryngo- Rhino- Otologie, 2022, , .	0.2	0