

Hesham Elhalawani

List of Publications by Year in Descending Order

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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.

86

papers

1,533

citations

22

h-index

36

g-index

157

ext. papers

2,075

ext. citations

2.7

avg, IF

5.39

L-index

#	Paper	IF	Citations
86	Head and neck tumor segmentation in PET/CT: The HECKTOR challenge.. <i>Medical Image Analysis</i> , 2021 , 77, 102336	15.4	50
85	Computed Tomography Radiomics Kinetics as Early Imaging Correlates of Osteoradionecrosis in Oropharyngeal Cancer Patients. <i>Frontiers in Artificial Intelligence</i> , 2021 , 4, 618469	3	5
84	Are Artificial Intelligence Challenges Becoming Radiology's New "Bee's Knees"? <i>Radiology: Artificial Intelligence</i> , 2021 , 3, e210056	8.7	0
83	FDG positron emission tomography mining for metabolic imaging biomarkers of radiation-induced xerostomia in patients with oropharyngeal cancer. <i>Clinical and Translational Radiation Oncology</i> , 2021 , 29, 93-101	4.6	1
82	Real-world evaluation of the impact of radiotherapy and chemotherapy in elderly patients with glioblastoma based on age and performance status. <i>Neuro-Oncology Practice</i> , 2021 , 8, 199-208	2.2	3
81	Overview of the HECKTOR Challenge at MICCAI 2020: Automatic Head and Neck Tumor Segmentation in PET/CT. <i>Lecture Notes in Computer Science</i> , 2021 , 1-21	0.9	31
80	Comparison of tumor delineation using dual energy computed tomography versus magnetic resonance imaging in head and neck cancer re-irradiation cases. <i>Physics and Imaging in Radiation Oncology</i> , 2020 , 14, 1-5	3.1	6
79	A spatial neighborhood methodology for computing and analyzing lymph node carcinoma similarity in precision medicine. <i>Journal of Biomedical Informatics: X</i> , 2020 , 1125, 100067	3.9	6
78	Clustering of Largely Right-Censored Oropharyngeal Head and Neck Cancer Patients for Discriminative Groupings to Improve Outcome Prediction. <i>Scientific Reports</i> , 2020 , 10, 3811	4.9	11
77	Privacy-preserving distributed learning of radiomics to predict overall survival and HPV status in head and neck cancer. <i>Scientific Reports</i> , 2020 , 10, 4542	4.9	23
76	Real-world applications of deep convolutional neural networks in diagnostic cancer imaging. <i>Chinese Clinical Oncology</i> , 2020 , 9, 82	2.3	
75	Optimal Timing of Radiotherapy Following Gross Total or Subtotal Resection of Glioblastoma: A Real-World Assessment using the National Cancer Database. <i>Scientific Reports</i> , 2020 , 10, 4926	4.9	13
74	Detection of Glioblastoma Subclinical Recurrence Using Serial Diffusion Tensor Imaging. <i>Cancers</i> , 2020 , 12,	6.6	3
73	Data from a terminated study on iron oxide nanoparticle magnetic resonance imaging for head and neck tumors. <i>Scientific Data</i> , 2020 , 7, 63	8.2	4
72	Lymphopenia during radiotherapy in patients with oropharyngeal cancer. <i>Radiotherapy and Oncology</i> , 2020 , 145, 95-100	5.3	7
71	CD8 infiltration is associated with disease control and tobacco exposure in intermediate-risk oropharyngeal cancer. <i>Scientific Reports</i> , 2020 , 10, 243	4.9	4
70	Simultaneously spatial and temporal Higher-Order Total Variations for noise suppression and motion reduction in DCE and IVIM. <i>Proceedings of SPIE</i> , 2020 , 11313,	1.7	1

69	Biomechanical modeling of radiation dose-induced volumetric changes of the parotid glands for deformable image registration. <i>Physics in Medicine and Biology</i> , 2020 , 65, 165017	3.8	0
68	Imaging for Response Assessment in Radiation Oncology: Current and Emerging Techniques. <i>Hematology/Oncology Clinics of North America</i> , 2020 , 34, 293-306	3.1	6
67	Differences between planned and delivered dose for head and neck cancer, and their consequences for normal tissue complication probability and treatment adaptation. <i>Radiotherapy and Oncology</i> , 2020 , 142, 100-106	5.3	8
66	Stability analysis of CT radiomic features with respect to segmentation variation in oropharyngeal cancer. <i>Clinical and Translational Radiation Oncology</i> , 2020 , 21, 11-18	4.6	11
65	A predictive model of radiation-related fibrosis based on the radiomic features of magnetic resonance imaging and computed tomography.. <i>Translational Cancer Research</i> , 2020 , 9, 4726-4738	0.3	2
64	PleThora: Pleural effusion and thoracic cavity segmentations in diseased lungs for benchmarking chest CT processing pipelines. <i>Medical Physics</i> , 2020 , 47, 5941-5952	4.4	12
63	Quantitative Dynamic Contrast-Enhanced MRI Identifies Radiation-Induced Vascular Damage in Patients With Advanced Osteoradionecrosis: Results of a Prospective Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020 , 108, 1319-1328	4	5
62	Tobacco exposure as a major modifier of oncologic outcomes in human papillomavirus (HPV) associated oropharyngeal squamous cell carcinoma. <i>BMC Cancer</i> , 2020 , 20, 912	4.8	8
61	Cohort-based T-SSIM Visual Computing for Radiation Therapy Prediction and Exploration. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2020 , 26, 949-959	4	9
60	PleThora: Pleural effusion and thoracic cavity segmentations in diseased lungs for benchmarking chest CT processing pipelines 2020 , 47, 5941		3
59	Radiomics features of the primary tumor fail to improve prediction of overall survival in large cohorts of CT- and PET-imaged head and neck cancer patients. <i>PLoS ONE</i> , 2019 , 14, e0222509	3.7	33
58	A Predictive model of radiation-related fibrosis based on radiomic features of Magnetic Resonance Imaging. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 105, E599	4	2
57	The Potential and Pitfalls of Crowdsourced Algorithm Development in Radiation Oncology. <i>JAMA Oncology</i> , 2019 , 5, 662-663	13.4	2
56	An quality assurance study of contouring target volumes in thoracic tumors within a cooperative group setting. <i>Clinical and Translational Radiation Oncology</i> , 2019 , 15, 83-92	4.6	2
55	A PET Radiomics Model to Predict Refractory Mediastinal Hodgkin Lymphoma. <i>Scientific Reports</i> , 2019 , 9, 1322	4.9	38
54	Chronic radiation-associated dysphagia in oropharyngeal cancer survivors: Towards age-adjusted dose constraints for deglutitive muscles. <i>Clinical and Translational Radiation Oncology</i> , 2019 , 18, 16-22	4.6	17
53	Prospective quantitative quality assurance and deformation estimation of MRI-CT image registration in simulation of head and neck radiotherapy patients. <i>Clinical and Translational Radiation Oncology</i> , 2019 , 18, 120-127	4.6	9
52	Biomechanical modeling of neck flexion for deformable alignment of the salivary glands in head and neck cancer images. <i>Physics in Medicine and Biology</i> , 2019 , 64, 175018	3.8	

51	Automatic detection of contouring errors using convolutional neural networks. <i>Medical Physics</i> , 2019 , 46, 5086-5097	4.4	33
50	The essence of R in head and neck cancer 2019 , 265-282		
49	Imaging-Genomic Study of Head and Neck Squamous Cell Carcinoma: Associations Between Radiomic Phenotypes and Genomic Mechanisms via Integration of The Cancer Genome Atlas and The Cancer Imaging Archive. <i>JCO Clinical Cancer Informatics</i> , 2019 , 3, 1-9	5.2	27
48	A prospective longitudinal assessment of MRI signal intensity kinetics of non-target muscles in patients with advanced stage oropharyngeal cancer in relationship to radiotherapy dose and post-treatment radiation-associated dysphagia: Preliminary findings from a randomized trial.	5.3	10
47	Patterns of Local-Regional Failure After Intensity Modulated Radiation Therapy or Passive Scattering Proton Therapy With Concurrent Chemotherapy for Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 103, 123-131	4	12
46	Radiographic retropharyngeal lymph node involvement in HPV-associated oropharyngeal carcinoma: Patterns of involvement and impact on patient outcomes. <i>Cancer</i> , 2019 , 125, 1536-1546	6.4	11
45	Dynamic contrast-enhanced magnetic resonance imaging for head and neck cancers. <i>Scientific Data</i> , 2018 , 5, 180008	8.2	9
44	Investigation of radiomic signatures for local recurrence using primary tumor texture analysis in oropharyngeal head and neck cancer patients. <i>Scientific Reports</i> , 2018 , 8, 1524	4.9	69
43	Gemcitabine-based chemotherapy for advanced biliary tract carcinomas. <i>The Cochrane Library</i> , 2018 , 4, CD011746	5.2	33
42	Deep Learning Algorithm for Auto-Delineation of High-Risk Oropharyngeal Clinical Target Volumes With Built-In Dice Similarity Coefficient Parameter Optimization Function. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 101, 468-478	4	71
41	Treatment at a high-volume centre is associated with improved survival among patients with non-metastatic hepatocellular carcinoma. <i>Liver International</i> , 2018 , 38, 665-675	7.9	5
40	Exploring Applications of Radiomics in Magnetic Resonance Imaging of Head and Neck Cancer: A Systematic Review. <i>Frontiers in Oncology</i> , 2018 , 8, 131	5.3	55
39	Machine Learning Applications in Head and Neck Radiation Oncology: Lessons From Open-Source Radiomics Challenges. <i>Frontiers in Oncology</i> , 2018 , 8, 294	5.3	23
38	Utilization rates and outcomes of short-course radiotherapy for nonmetastatic rectal adenocarcinoma for patients in the National Cancer Database.. <i>Journal of Clinical Oncology</i> , 2018 , 36, 774-774	2.2	
37	An imaging/biology correlation study between radiomics features and anaplastic lymphoma kinase (ALK) mutational status in a uniform Chinese cohort of locally advanced lung adenocarcinomas.. <i>Journal of Clinical Oncology</i> , 2018 , 36, e20540-e20540	2.2	
36	Imaging and clinical data archive for head and neck squamous cell carcinoma patients treated with radiotherapy. <i>Scientific Data</i> , 2018 , 5, 180173	8.2	22
35	Diffusion-Weighted MRI As an Early Biomarker of Xerostomia in Oropharyngeal Cancer Patients Treated with Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, e214-e215	4	2
34	Evaluating the Effect of Right-Censored End Point Transformation for Radiomic Feature Selection of Data From Patients With Oropharyngeal Cancer. <i>JCO Clinical Cancer Informatics</i> , 2018 , 2, 1-19	5.2	12

33	Outcomes of patients in the national cancer database treated non-surgically for localized rectal cancer. <i>Journal of Gastrointestinal Oncology</i> , 2018 , 9, 589-600	2.8	
32	HOUT-21. REAL-WORD EVALUATION OF THE IMPACT OF RADIOTHERAPY AND CHEMOTHERAPY IN ELDERLY PATIENTS WITH GLIOBLASTOMA BASED ON AGE AND PERFORMANCE STATUS: A NATIONAL CANCER DATABASE ANALYSIS. <i>Neuro-Oncology</i> , 2018 , 20, vi117-vi117	1	78
31	Auto-delineation of oropharyngeal clinical target volumes using 3D convolutional neural networks. <i>Physics in Medicine and Biology</i> , 2018 , 63, 215026	3.8	24
30	Utilization of short-course radiation therapy for patients with nonmetastatic rectal adenocarcinoma in the United States. <i>Advances in Radiation Oncology</i> , 2018 , 3, 611-620	3.3	7
29	Practical guidelines for handling head and neck computed tomography artifacts for quantitative image analysis. <i>Computerized Medical Imaging and Graphics</i> , 2018 , 69, 134-139	7.6	22
28	Discrimination of Epstein-Barr Virus Status in NPC Using CT-Derived Radiomics Features: Linking Imaging Phenotypes to Tumor Biology. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 100, 1361	4	2
27	EP-2121: Serial Parotid Gland Radiomic-based Model Predicts Post-Radiation Xerostomia in Oropharyngeal Cancer. <i>Radiotherapy and Oncology</i> , 2018 , 127, S1167-S1168	5.3	5
26	Risk of Distinctive Hair Changes Associated With Pazopanib in Patients With Renal Cell Carcinoma (RCC) Versus Patients Without RCC: A Comparative Systematic Review and Meta-analysis. <i>Clinical Genitourinary Cancer</i> , 2017 , 15, e325-e335	3.3	5
25	A large-scale retrospective study of the overall survival outcome in nasopharyngeal carcinoma with hypertension in Chinese population. <i>Oncotarget</i> , 2017 , 8, 75577-75586	3.3	5
24	A Multi-Institutional Comparison of Dynamic Contrast-Enhanced Magnetic Resonance Imaging Parameter Calculations. <i>Scientific Reports</i> , 2017 , 7, 11185	4.9	21
23	Dose-volume correlates of mandibular osteoradionecrosis in Oropharynx cancer patients receiving intensity-modulated radiotherapy: Results from a case-matched comparison. <i>Radiotherapy and Oncology</i> , 2017 , 124, 232-239	5.3	38
22	Matched computed tomography segmentation and demographic data for oropharyngeal cancer radiomics challenges. <i>Scientific Data</i> , 2017 , 4, 170077	8.2	23
21	Risk of endocrine complications in cancer patients treated with immune check point inhibitors: a meta-analysis. <i>Future Oncology</i> , 2016 , 12, 413-25	3.6	94
20	Doublet BRAF/MEK inhibition versus single-agent BRAF inhibition in the management of BRAF-mutant advanced melanoma, biological rationale and meta-analysis of published data. <i>Clinical and Translational Oncology</i> , 2016 , 18, 848-58	3.6	18
19	S-1-based regimens for locally advanced/metastatic non-small-cell lung cancer: a meta-analysis. <i>Future Oncology</i> , 2016 , 12, 701-13	3.6	4
18	S-1-based regimens and the risk of leucopenic complications; a Meta-analysis with comparison to other fluoropyrimidines and non fluoropyrimidines. <i>Expert Opinion on Drug Safety</i> , 2016 , 15, 437-48	4.1	
17	S-1-based regimens and the risk of oral and gastrointestinal mucosal injury: a meta-analysis with comparison to other fluoropyrimidines. <i>Expert Opinion on Drug Safety</i> , 2016 , 15, 5-20	4.1	8
16	Risk of elevated transaminases in non-small cell lung cancer (NSCLC) patients treated with erlotinib, gefitinib and afatinib: a meta-analysis. <i>Expert Review of Respiratory Medicine</i> , 2016 , 10, 223-34	3.8	3

15	Risk of cardiovascular adverse events in patients with solid tumors treated with ramucirumab: A meta analysis and summary of other VEGF targeted agents. <i>Critical Reviews in Oncology/Hematology</i> , 2016 , 102, 89-100	7	9
14	Risk of selected gastrointestinal and hepatic toxicities in cancer patients treated with nintedanib: a meta-analysis. <i>Future Oncology</i> , 2016 , 12, 2163-72	3.6	4
13	Risk of elevated transaminases in cancer patients treated with immune checkpoint inhibitors: a meta-analysis. <i>Expert Opinion on Drug Safety</i> , 2015 , 14, 1507-18	4.1	40
12	Risk of selected gastrointestinal toxicities in cancer patients treated with MEK inhibitors: a comparative systematic review and meta-analysis. <i>Expert Review of Gastroenterology and Hepatology</i> , 2015 , 9, 1433-45	4.2	12
11	Risk of hematological toxicities in patients with solid tumors treated with ramucirumab: a meta-analysis. <i>Future Oncology</i> , 2015 , 11, 2949-61	3.6	5
10	Risk of oral and gastrointestinal mucosal injury in patients with solid tumors treated with ramucirumab: a systematic review and meta-analysis. <i>Expert Opinion on Drug Safety</i> , 2015 , 14, 1495-506	4.1	6
9	Risk of cutaneous toxicities in patients with solid tumors treated with immune checkpoint inhibitors: a meta-analysis. <i>Future Oncology</i> , 2015 , 11, 2471-84	3.6	59
8	Risk of selected dermatological toxicities in cancer patients treated with MEK inhibitors: a comparative systematic review and meta-analysis. <i>Future Oncology</i> , 2015 , 11, 3307-19	3.6	8
7	Risk of gastrointestinal complications in cancer patients treated with immune checkpoint inhibitors: a meta-analysis. <i>Immunotherapy</i> , 2015 , 7, 1213-27	3.8	71
6	Critical evaluation of ramucirumab in the treatment of advanced gastric and gastroesophageal cancers. <i>Therapeutics and Clinical Risk Management</i> , 2015 , 11, 1123-32	2.9	5
5	Risk of fatal pulmonary events in patients with advanced non-small-cell lung cancer treated with EGF receptor tyrosine kinase inhibitors: a comparative meta-analysis. <i>Future Oncology</i> , 2015 , 11, 1109-22	3.6	16
4	Risk of Selected Cardiovascular Toxicities in Patients With Cancer Treated With MEK Inhibitors: A Comparative Systematic Review and Meta-Analysis. <i>Journal of Global Oncology</i> , 2015 , 1, 73-82	2.6	20
3	Adjuvant systemic treatment for elderly breast cancer patients; addressing safety concerns. <i>Expert Opinion on Drug Safety</i> , 2014 , 13, 1443-67	4.1	5
2	Proteinuria in Patients with Solid Tumors Treated with Ramucirumab: A Systematic Review and Meta-Analysis. <i>Chemotherapy</i> , 2014 , 60, 325-33	3.2	16
1	Discovering early imaging biomarkers of osteoradionecrosis in oropharyngeal cancer by characterization of temporal changes in computed tomography mandibular radiomic features		1