Ahmed E Othman

List of Publications by Year
in descending order

99 papers	1,768 citations	304743 22 h-index	414414 32 g-index
100 all docs	100 docs citations	100 times ranked	2262 citing authors

#	Article	IF	Citations
1	Dual energy computed tomography virtual monoenergetic imaging: technique and clinical applications. British Journal of Radiology, 2019, 92, 20180546.	2.2	81
2	Deep learningâ€“accelerated T2-weighted imaging of the prostate: Reduction of acquisition time and improvement of image quality. European Journal of Radiology, 2021, 137, 109600.	2.6	74
3	Diagnostic Confidence and Feasibility of a Deep Learning Accelerated HASTE Sequence of the Abdomen in a Single Breath-Hold. Investigative Radiology, 2021, 56, 313-319.	6.2	52
4	Accelerated T2-Weighted TSE Imaging of the Prostate Using Deep Learning Image Reconstruction: A Prospective Comparison with Standard T2-Weighted TSE Imaging. Cancers, 2021, 13, 3593.	3.7	47
5	Effect of Noise-Optimized Monoenergetic Postprocessing on Diagnostic Accuracy for Detecting Incidental Pulmonary Embolism in Portal-Venous Phase Dual-Energy Computed Tomography. Investigative Radiology, 2017, 52, 142-147.	6.2	44
6	Implementation of a 5-Minute Magnetic Resonance Imaging Screening Protocol for Prostate Cancer in Men With Elevated Prostate-Specific Antigen Before Biopsy. Investigative Radiology, 2018, 53, 186-190.	6.2	44
7	CT imaging of bone and bone marrow infiltration in malignant melanomaâ€”Challenges and limitations for clinical staging in comparison to 18FDG-PET/CT. European Journal of Radiology, 2016, 85, 732-738.	2.6	43
8	Monoenergetic Dual-energy Computed Tomographic Imaging. Journal of Thoracic Imaging, 2017, 32, 151-158.	1.5	43
9	Cost-effectiveness of Endovascular Therapy for Acute Ischemic Stroke: A Systematic Review of the Impact of Patient Age. Radiology, 2018, 288, 518-526.	7.3	41
10	Effect of Temporal Resolution on Diagnostic Performance of Dynamic Contrast-Enhanced Magnetic Resonance Imaging of the Prostate. Investigative Radiology, 2016, 51, 290-296.	6.2	38
11	Radiation dose reduction in perfusion CT imaging of the brain: A review of the literature. Journal of Neuroradiology, 2016, 43, 1-5.	1.1	38
12	Deep Learning Applications in Magnetic Resonance Imaging: Has the Future Become Present?. Diagnostics, 2021, 11, 2181.	2.6	37
13	Scan time reduction in diffusion-weighted imaging of the pancreas using a simultaneous multislice technique with different acceleration factors: How fast can we go?. European Radiology, 2018, 28, 1504-1511.	4.5	36
14	Feasibility and Implementation of a Deep Learning MR Reconstruction for TSE Sequences in Musculoskeletal Imaging. Diagnostics, 2021, 11, 1484.	2.6	36
15	Crossed cerebellar diaschisis in acute ischemic stroke: Impact on morphologic and functional outcome. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3615-3624.	4.3	32
16	Metal artifact reduction for flat panel detector intravenous CT angiography in patients with intracranial metallic implants after endovascular and surgical treatment. Journal of NeuroInterventional Surgery, 2016, 8, 824-829.	3.3	27
17	Feasibility of combined surgical and endovascular carotid access for interventional treatment of ischemic stroke. Journal of NeuroInterventional Surgery, 2016, 8, 571-575.	3.3	27
18	Imaging of Cholangiocarcinoma. Visceral Medicine, 2016, 32, 402-410.	1.3	26

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19	Effect of a novel denoising technique on image quality and diagnostic accuracy in low-dose CT in patients with suspected appendicitis. European Journal of Radiology, 2019, 116, 198-204.	2.6	26
20	Development and Evaluation of Deep Learning-Accelerated Single-Breath-Hold Abdominal HASTE at 3 T Using Variable Refocusing Flip Angles. Investigative Radiology, 2021, 56, 645-652.	6.2	26
21	Early Imaging Prediction of Malignant Cerebellar Edema Development in Acute Ischemic Stroke. Stroke, 2017, 48, 2597-2600.	2.0	25
22	Application of a Novel Iterative Denoising and Image Enhancement Technique in T1-Weighted Precontrast and Postcontrast Gradient Echo Imaging of the Abdomen. Investigative Radiology, 2021, 56, 328-334.	6.2	25
23	Enhanced reading time efficiency by use of automatically unfolded CT rib reformations in acute trauma. European Journal of Radiology, 2015, 84, 2173-2180.	2.6	23
24	Optimisation of window settings for traditional and noise-optimised virtual monoenergetic imaging in dual-energy computed tomography pulmonary angiography. European Radiology, 2018, 28, 1393-1401.	4.5	23
25	Analysis of a Deep Learning-Based Superresolution Algorithm Tailored to Partial Fourier Gradient Echo Sequences of the Abdomen at 1.5 T. Investigative Radiology, 2022, 57, 157-162.	6.2	22
26	Feasibility of an accelerated 2D-multi-contrast knee MRI protocol using deep-learning image reconstruction: a prospective intraindividual comparison with a standard MRI protocol. European Radiology, 2022, 32, 6215-6229.	4.5	22
27	Optimized Fast Dynamic Contrast-Enhanced Magnetic Resonance Imaging of the Prostate. Investigative Radiology, 2016, 51, 106-112.	6.2	21
28	Is there a link between very early changes of primary and secondary lymphoid organs in ¹⁸F-FDG-PET/MRI and treatment response to checkpoint inhibitor therapy?. , 2020, 8, e000656.		21
29	The scaffold protein p62 regulates adaptive thermogenesis through ATF2 nuclear target activation. Nature Communications, 2020, 11, 2306.	12.8	21
30	MRI Appearance of Intracerebral Iodinated Contrast Agents: Is It Possible to Distinguish Extravasated Contrast Agent from Hemorrhage?. American Journal of Neuroradiology, 2016, 37, 1418-1421.	2.4	20
31	Volume perfusion CT imaging of cerebral vasospasm: diagnostic performance of different perfusion maps. Neuroradiology, 2016, 58, 787-792.	2.2	20
32	Diagnostic Accuracy of Simulated Low-Dose Perfusion CT to Detect Cerebral Perfusion Impairment after Aneurysmal Subarachnoid Hemorrhage: A Retrospective Analysis. Radiology, 2018, 287, 643-650.	7.3	20
33	Baseline clinical and imaging predictors of treatment response and overall survival of patients with metastatic melanoma undergoing immunotherapy. European Journal of Radiology, 2019, 121, 108688.	2.6	20
34	Deep Learning-Based Superresolution Reconstruction for Upper Abdominal Magnetic Resonance Imaging. Investigative Radiology, 2021, 56, 509-516.	6.2	20
35	A Machine learning model trained on dual-energy CT radiomics significantly improves immunotherapy response prediction for patients with stage IV melanoma. , 2021, 9, e003261.		20
36	Effects of radiation dose reduction in Volume Perfusion CT imaging of acute ischemic stroke. European Radiology, 2015, 25, 3415-3422.	4.5	19

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37	Feasibility of accelerated simultaneous multislice diffusionâ€weighted MRI of the prostate. Journal of Magnetic Resonance Imaging, 2017, 46, 1507-1515.	3.4	19
38	Feasibility of CAIPIRINHA-Dixon-TWIST-VIBE for dynamic contrast-enhanced MRI of the prostate. European Journal of Radiology, 2015, 84, 2110-2116.	2.6	18
39	Scan time minimization in hepatic diffusion-weighted imaging: evaluation of the simultaneous multislice acceleration technique with different acceleration factors and gradient preparation schemes. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 739-749.	2.0	18
40	Impact of image denoising on image quality, quantitative parameters and sensitivity of ultra-low-dose volume perfusion CT imaging. European Radiology, 2016, 26, 167-174.	4.5	18
41	Clinical Impact of Ventilation Duration in Patients with Stroke Undergoing Interventional Treatment under General Anesthesia: The Shorter the Better?. American Journal of Neuroradiology, 2016, 37, 1074-1079.	2.4	18
42	Comparison of different population-averaged arterial-input-functions in dynamic contrast-enhanced MRI of the prostate: Effects on pharmacokinetic parameters and their diagnostic performance. Magnetic Resonance Imaging, 2016, 34, 496-501.	1.8	18
43	Deep learning-based super-resolution gradient echo imaging of the pancreas: Improvement of image quality and reduction of acquisition time. Diagnostic and Interventional Imaging, 2023, 104, 53-59.	3.2	18
44	Evaluation of reduced-dose CT for acute non-traumatic abdominal pain: evaluation of diagnostic accuracy in comparison to standard-dose CT. Acta Radiologica, 2018, 59, 4-12.	1.1	17
45	Image Quality Improvement of Dynamic Contrast-Enhanced Gradient Echo Magnetic Resonance Imaging by Iterative Denoising and Edge Enhancement. Investigative Radiology, 2021, 56, 465-470.	6.2	17
46	Transfer of stroke patients impairs eligibility for endovascular stroke treatment. Journal of Neuroradiology, 2018, 45, 49-53.	1.1	16
47	Prediction of Postoperative Risks in Laparoscopic Partial Nephrectomy Using RENAL, Mayo Adhesive Probability and Renal Pelvic Score. Anticancer Research, 2017, 37, 1369-1374.	1.1	16
48	Weekend effect in endovascular stroke treatment: do treatment decisions, procedural times, and outcome depend on time of admission?. Journal of NeuroInterventional Surgery, 2017, 9, 336-339.	3.3	15
49	Impact of helmet use in equestrian-related traumatic brain injury: a matched-pairs analysis. British Journal of Neurosurgery, 2018, 32, 37-43.	0.8	15
50	Precision of T2 TSE MRI-CT-image fusions based on gold fiducials and repetitive T2 TSE MRI-MRI-fusions for adaptive IGRT of prostate cancer by using phantom and patient data. Acta OncolÃ³gica, 2019, 58, 88-94.	1.8	15
51	Noise-optimized monoenergetic post-processing improves visualization of incidental pulmonary embolism in cancer patients undergoing single-pass dual-energy computed tomography. Radiologia Medica, 2017, 122, 280-287.	7.7	14
52	Continuous Hepatic Arterial Multiphase Magnetic Resonance Imaging During Free-Breathing. Investigative Radiology, 2018, 53, 596-601.	6.2	14
53	Virtual non-enhanced dual-energy CT reconstruction may replace true non-enhanced CT scans in the setting of suspected active hemorrhage. European Journal of Radiology, 2018, 109, 218-222.	2.6	14
54	Spinal Epidural Arteriovenous Fistula with Perimedullary Venous Reflux: Clinical and Neuroradiologic Features of an Underestimated Vascular Disorder. American Journal of Neuroradiology, 2018, 39, 2095-2102.	2.4	14

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55	Prospective Image Quality and Lesion Assessment in the Setting of MR-Guided Radiation Therapy of Prostate Cancer on an MR-Linac at 1.5 T: A Comparison to a Standard 3 T MRI. Cancers, 2021, 13, 1533.	3.7	14
56	Dose Reduction and Dose Management in Computed Tomography â€“ State of the Art. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2018, 190, 531-541.	1.3	13
57	Spinal dual-energy computed tomography: improved visualisation of spinal tumorous growth with a noise-optimised advanced monoenergetic post-processing algorithm. Neuroradiology, 2016, 58, 1093-1102.	2.2	12
58	Feasibility of self-gated isotropic radial late-phase MR imaging of the liver. European Radiology, 2017, 27, 985-994.	4.5	12
59	Hemangiopericytoma/solitary fibrous tumor of the greater omentum: A case report and review of the literature. International Journal of Surgery Case Reports, 2016, 23, 160-162.	0.6	11
60	Selfâ€gated 4Dâ€MRI of the liver: Initial clinical results of continuous multiphase imaging of hepatic enhancement. Journal of Magnetic Resonance Imaging, 2018, 47, 459-467.	3.4	11
61	Effects of simulated dose variation on contrast-enhanced CT-based radiomic analysis for Non-Small Cell Lung Cancer. European Journal of Radiology, 2020, 124, 108804.	2.6	11
62	Effects of radiation dose reduction on diagnostic performance of 3rd generation Dual Source CT pulmonary angiography. European Journal of Radiology, 2021, 134, 109426.	2.6	11
63	Advocating neuroimaging studies of transmitter release in human physical exercise challenges studies. Open Access Journal of Sports Medicine, 2010, 1, 167.	1.3	10
64	Infarct fogging on immediate postinterventional CTâ€”a not infrequent occurrence. Neuroradiology, 2017, 59, 853-859.	2.2	10
65	Imaging of gastrointestinal melanoma metastases: Correlation with surgery and histopathology of resected specimen. European Radiology, 2017, 27, 2538-2545.	4.5	10
66	Endovascular stentectomy using the snare over stent-retriever (SOS) technique: An experimental feasibility study. PLoS ONE, 2017, 12, e0178197.	2.5	10
67	Effect of reduced z-axis scan coverage on diagnostic performance and radiation dose of neck computed tomography in patients with suspected cervical abscess. PLoS ONE, 2017, 12, e0180671.	2.5	10
68	Temporary Stent-Assisted Coil Embolization as a Treatment Option for Wide-Neck Aneurysms. American Journal of Neuroradiology, 2017, 38, 1372-1376.	2.4	9
69	Improvement of Endovascular Stroke Treatment: A 24-Hour Neuroradiological On-Site Service Is Not Enough. BioMed Research International, 2018, 2018, 1-8.	1.9	9
70	Fast Abdominal Contrast-Enhanced Imaging With High Parallel-Imaging Factors Using a 60-Channel Receiver Coil Setup. Investigative Radiology, 2018, 53, 602-608.	6.2	9
71	Carotid and cerebrovascular dual-energy computed tomography angiography: Optimization of window settings for virtual monoenergetic imaging reconstruction. European Journal of Radiology, 2020, 130, 109166.	2.6	9
72	Minimally Invasive Monitoring of Chronic Central Venous Catheter Patency in Mice Using Digital Subtraction Angiography (DSA). PLoS ONE, 2015, 10, e0130661.	2.5	8

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73	Reduction in Acquisition Time and Improvement in Image Quality in T2-Weighted MR Imaging of Musculoskeletal Tumors of the Extremities Using a Novel Deep Learning-Based Reconstruction Technique in a Turbo Spin Echo (TSE) Sequence. Tomography, 2022, 8, 1759-1769.	1.8	8
74	Long Term Outcome after Application of the Angio-Seal Vascular Closure Device in Minipigs. PLoS ONE, 2016, 11, e0163878.	2.5	7
75	Imaging of Ventriculoperitoneal Shunt Complications. Journal of Computer Assisted Tomography, 2016, 40, 991-996.	0.9	7
76	Low-Dose Volume-Perfusion CT of the Brain: Effects of Radiation Dose Reduction on Performance of Perfusion CT Algorithms. Clinical Neuroradiology, 2017, 27, 311-318.	1.9	7
77	Impact of dual-energy CT post-processing to differentiate venous thrombosis from iodine flux artefacts. European Radiology, 2018, 28, 5076-5082.	4.5	7
78	Performance of an Automated Workflow for Magnetic Resonance Imaging of the Prostate. Investigative Radiology, 2020, 55, 277-284.	6.2	7
79	Evaluation of whole body Ultralow-Dose CT for the assessment of ventriculoperitoneal shunt complications: an experimental ex-vivo study in a swine model. European Radiology, 2015, 25, 2199-2204.	4.5	6
80	Impact of Radiation Dose Reduction in Abdominal Computed Tomography on Diagnostic Accuracy and Diagnostic Performance in Patients with Suspected Appendicitis. Academic Radiology, 2018, 25, 309-316.	2.5	6
81	Advanced Virtual Monoenergetic Imaging: Improvement of Visualization and Differentiation of Intramuscular Lesions in Portal-Venous-phase Contrast-enhanced Dual-energy CT. Academic Radiology, 2019, 26, 1457-1465.	2.5	6
82	Reduced scan range abdominopelvic CT in patients with suspected acute appendicitis - impact on diagnostic accuracy and effective radiation dose. BMC Medical Imaging, 2019, 19, 4.	2.7	6
83	Effects of Radiation Dose Reduction on Diagnostic Accuracy of Abdominal CT in Young Adults with Suspected Acute Diverticulitis: A Retrospective Intraindividual Analysis. Academic Radiology, 2019, 26, 782-790.	2.5	6
84	1.5 vs 3 Tesla Magnetic Resonance Imaging. Investigative Radiology, 2021, 56, 692-704.	6.2	6
85	Value of computed tomography texture analysis for prediction of perioperative complications during laparoscopic partial nephrectomy in patients with renal cell carcinoma. PLoS ONE, 2018, 13, e0195270.	2.5	5
86	High-Pitch Low-Dose Whole-Body Computed Tomography for the Assessment of Ventriculoperitoneal Shunts in a Pediatric Patient Model. Investigative Radiology, 2015, 50, 858-862.	6.2	4
87	Diagnostic performance of different perfusion algorithms for the detection of angiographical spasm. Journal of Neuroradiology, 2018, 45, 290-294.	1.1	4
88	Diagnostic Performance of Different Simulated Low-Dose Levels in Patients with Suspected Cervical Abscess Using a Third-Generation Dual-Source CT Scanner. Diagnostics, 2020, 10, 1072.	2.6	4
89	AI Lung Segmentation and Perfusion Analysis of Dual-Energy CT Can Help to Distinguish COVID-19 Infiltrates from Visually Similar Immunotherapy-Related Pneumonitis Findings and Can Optimize Radiological Workflows. Tomography, 2022, 8, 22-32.	1.8	4
90	CoRad-19 â€“ Modular Digital Teaching during the SARS-CoV-2 Pandemic. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2022, , .	1.3	4

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91	Simulated Radiation Dose Reduction in Whole-Body CT on a 3rd Generation Dual-Source Scanner: An Intraindividual Comparison. Diagnostics, 2021, 11, 118.	2.6	3
92	Diagnostic Performance of a Contrast-Enhanced Ultra-Low-Dose High-Pitch CT Protocol with Reduced Scan Range for Detection of Pulmonary Embolisms. Diagnostics, 2021, 11, 1251.	2.6	3
93	Beyond Glioma: The Utility of Radiomic Analysis for Non-Glial Intracranial Tumors. Cancers, 2022, 14, 836.	3.7	3
94	Clinical Evaluation of an Abbreviated Contrast-Enhanced Whole-Body MRI for Oncologic Follow-Up Imaging. Diagnostics, 2021, 11, 2368.	2.6	3
95	Comprehensive Clinical Evaluation of a Deep Learning-Accelerated, Single-Breath-Hold Abdominal HASTE at 1.5 T and 3 T. Academic Radiology, 2023, 30, 93-102.	2.5	3
96	Early Tumor Size Reduction of at least 10% at the First Follow-Up Computed Tomography Can Predict Survival in the Setting of Advanced Melanoma and Immunotherapy. Academic Radiology, 2021, , .	2.5	2
97	Accelerated Three-dimensional T2-Weighted Turbo-Spin-Echo Sequences with Inner-Volume Excitation and Iterative Denoising in the Setting of Pelvis MRI at 1.5T: Impact on Image Quality and Lesion Detection. Academic Radiology, 2022, , .	2.5	2
98	Monitoring Pulmonary Thrombectomy: What Information Can Be Gained with Arterial Spin Labeling MRI?. Korean Journal of Radiology, 2022, 23, 931.	3.4	1
99	Fellowship Training: Navigating the Decision to Be a Generalist or a Subspecialistâ€”Radiology In Training. Radiology, 2022, 305, E63-E65.	7.3	1