Salim A Si-Mohamed

List of Publications by Year
in descending order

70 papers	2,438 citations	185998 28 h-index	223531 46 g-index
80 all docs	80 docs citations	80 times ranked	2106 citing authors

#	Article	IF	Citations
1	Effect of Gold Nanoparticle Size on Their Properties as Contrast Agents for Computed Tomography. Scientific Reports, 2019, 9, 14912.	1.6	157
2	Coronary CT Angiography with Photon-counting CT: First-In-Human Results. Radiology, 2022, 303, 303-313.	3.6	122
3	Multicolor spectral photon-counting computed tomography: in vivo dual contrast imaging with a high count rate scanner. Scientific Reports, 2017, 7, 4784.	1.6	115
4	Progressive fibrosing interstitial lung disease: a clinical cohort (the PROGRESS study). European Respiratory Journal, 2021, 57, 2002718.	3.1	103
5	Review of an initial experience with an experimental spectral photon-counting computed tomography system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 873, 27-35.	0.7	93
6	Evaluation of spectral photon counting computed tomography K-edge imaging for determination of gold nanoparticle biodistribution *in vivo*. Nanoscale, 2017, 9, 18246-18257.	2.8	89
7	Automatic knee meniscus tear detection and orientation classification with Mask-RCNN. Diagnostic and Interventional Imaging, 2019, 100, 235-242.	1.8	89
8	Dextran-Coated Cerium Oxide Nanoparticles: A Computed Tomography Contrast Agent for Imaging the Gastrointestinal Tract and Inflammatory Bowel Disease. ACS Nano, 2020, 14, 10187-10197.	7.3	89
9	Experimental feasibility of spectral photon-counting computed tomography with two contrast agents for the detection of endoleaks following endovascular aortic repair. European Radiology, 2018, 28, 3318-3325.	2.3	79
10	First In-Human Results of Computed Tomography Angiography for Coronary Stent Assessment With a Spectral Photon Counting Computed Tomography. Investigative Radiology, 2022, 57, 212-221.	3.5	62
11	Multicolour imaging with spectral photon-counting CT: a phantom study. European Radiology Experimental, 2018, 2, 34.	1.7	60
12	Assessment of candidate elements for development of spectral photon-counting CT specific contrast agents. Scientific Reports, 2018, 8, 12119.	1.6	58
13	Spectral Photon-Counting Computed Tomography (SPCCT): in-vivo single-acquisition multi-phase liver imaging with a dual contrast agent protocol. Scientific Reports, 2019, 9, 8458.	1.6	56
14	Spectral Photon-Counting Computed Tomography for Coronary Stent Imaging. Investigative Radiology, 2020, 55, 61-67.	3.5	56
15	In Vivo Molecular K-Edge Imaging of Atherosclerotic Plaque Using Photon-counting CT. Radiology, 2021, 300, 98-107.	3.6	55
16	Evaluation of a preclinical photon-counting CT prototype for pulmonary imaging. Scientific Reports, 2018, 8, 17386.	1.6	53
17	Comparison of five one-step reconstruction algorithms for spectral CT. Physics in Medicine and Biology, 2018, 63, 235001.	1.6	53
18	Feasibility of lung imaging with a large field-of-view spectral photon-counting CT system. Diagnostic and Interventional Imaging, 2021, 102, 305-312.	1.8	52

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19	Improved Peritoneal Cavity and Abdominal Organ Imaging Using a Biphasic Contrast Agent Protocol and Spectral Photon Counting Computed Tomography K-Edge Imaging. Investigative Radiology, 2018, 53, 629-639.	3.5	49
20	Feasibility of improving vascular imaging in the presence of metallic stents using spectral photon counting CT and K-edge imaging. Scientific Reports, 2019, 9, 19850.	1.6	46
21	Spectral Photon-Counting CT Technology in Chest Imaging. Journal of Clinical Medicine, 2021, 10, 5757.	1.0	39
22	Head-to-head comparison of lung perfusion with dual-energy CT and SPECT-CT. Diagnostic and Interventional Imaging, 2020, 101, 299-310.	1.8	37
23	Coronary calcium scoring potential of large field-of-view spectral photon-counting CT: a phantom study. European Radiology, 2022, 32, 152-162.	2.3	36
24	Comparison of two deep learning image reconstruction algorithms in chest CT images: A task-based image quality assessment on phantom data. Diagnostic and Interventional Imaging, 2022, 103, 21-30.	1.8	36
25	Five simultaneous artificial intelligence data challenges on ultrasound, CT, and MRI. Diagnostic and Interventional Imaging, 2019, 100, 199-209.	1.8	34
26	*In vivo* demonstration of pulmonary microvascular involvement in COVID-19 using dual-energy computed tomography. European Respiratory Journal, 2020, 56, 2002608.	3.1	33
27	Virtual versus true non-contrast dual-energy CT imaging for the diagnosis of aortic intramural hematoma. European Radiology, 2019, 29, 6762-6771.	2.3	32
28	Feasibility of human vascular imaging of the neck with a large field-of-view spectral photon-counting CT system. Diagnostic and Interventional Imaging, 2021, 102, 329-332.	1.8	31
29	Estimates of epidemiology, mortality and disease burden associated with progressive fibrosing interstitial lung disease in France (the PROGRESS study). Respiratory Research, 2021, 22, 162.	1.4	31
30	Kidney cortex segmentation in 2D CT with U-Nets ensemble aggregation. Diagnostic and Interventional Imaging, 2019, 100, 211-217.	1.8	30
31	Chest CT for rapid triage of patients in multiple emergency departments during COVID-19 epidemic: experience report from a large French university hospital. European Radiology, 2021, 31, 795-803.	2.3	30
32	Differentiation between blood and iodine in a bovine brain—Initial experience with Spectral Photon-Counting Computed Tomography (SPCCT). PLoS ONE, 2019, 14, e0212679.	1.1	26
33	Comparison of image quality between spectral photon-counting CT and dual-layer CT for the evaluation of lung nodules: a phantom study. European Radiology, 2022, 32, 524-532.	2.3	26
34	Performance of Spectral Photon-Counting Coronary CT Angiography and Comparison with Energy-Integrating-Detector CT: Objective Assessment with Model Observer. Diagnostics, 2021, 11, 2376.	1.3	25
35	Performance of four dual-energy CT platforms for abdominal imaging: a task-based image quality assessment based on phantom data. European Radiology, 2021, 31, 5324-5334.	2.3	24
36	Pulmonary arteriovenous malformations in hereditary haemorrhagic telangiectasia: Correlations between computed tomography findings and cerebral complications. European Radiology, 2018, 28, 1338-1344.	2.3	23

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37	Hybrid Nano-GdF3 contrast media allows pre-clinical in vivo element-specific K-edge imaging and quantification. Scientific Reports, 2019, 9, 12090.	1.6	23
38	Liquid Embolic Agents in Spectral X-Ray Photon-Counting Computed Tomography using Tantalum K-Edge Imaging. Scientific Reports, 2019, 9, 5268.	1.6	23
39	Reduced-iodine-dose dual-energy coronary CT angiography: qualitative and quantitative comparison between virtual monochromatic and polychromatic CT images. European Radiology, 2021, 31, 7132-7142.	2.3	23
40	Nintedanib in idiopathic and secondary pleuroparenchymal fibroelastosis. Orphanet Journal of Rare Diseases, 2021, 16, 419.	1.2	20
41	Multicolor spectral photon counting CT monitors and quantifies therapeutic cells and their encapsulating scaffold in a model of brain damage. Nanotheranostics, 2020, 4, 129-141.	2.7	19
42	CT dose optimization for the detection of pulmonary arteriovenous malformation (PAVM): A phantom study. Diagnostic and Interventional Imaging, 2020, 101, 289-297.	1.8	19
43	Lung ultrasound score as a tool to monitor disease progression and detect ventilator-associated pneumonia during COVID-19-associated ARDS. Heart and Lung: Journal of Acute and Critical Care, 2021, 50, 700-705.	0.8	17
44	Improved coronary calcium detection and quantification with low-dose full field-of-view photon-counting CT: a phantom study. European Radiology, 2022, 32, 3447-3457.	2.3	17
45	Technical Note: Relative proton stopping power estimation from virtual monoenergetic images reconstructed from dual-layer computed tomography. Medical Physics, 2019, 46, 1821-1828.	1.6	16
46	Comparison of virtual monoenergetic imaging between a rapid kilovoltage switching dual-energy computed tomography with deep-learning and four dual-energy CTs with iterative reconstruction. Quantitative Imaging in Medicine and Surgery, 2022, 12, 1149-1162.	1.1	16
47	Iodinated polymer nanoparticles as contrast agent for spectral photon counting computed tomography. Biomaterials Science, 2020, 8, 5715-5728.	2.6	15
48	Virtual monoenergetic images from photon-counting spectral computed tomography to assess knee osteoarthritis. European Radiology Experimental, 2022, 6, 10.	1.7	15
49	Diagnostic performance of a low dose triple rule-out CT angiography using SAFIRE in emergency department. Diagnostic and Interventional Imaging, 2017, 98, 881-891.	1.8	14
50	Spectral photon-counting CT imaging of colorectal peritoneal metastases: initial experience in rats. Scientific Reports, 2020, 10, 13394.	1.6	14
51	Vein Diameter on Unenhanced Multidetector CT Predicts Reperfusion of Pulmonary Arteriovenous Malformation after Embolotherapy. European Radiology, 2016, 26, 2723-2729.	2.3	12
52	Neprilysin levels at the acute phase of ST-elevation myocardial infarction. Clinical Cardiology, 2019, 42, 32-38.	0.7	12
53	"Dark-blood" dual-energy computed tomography angiography for thoracic aortic wall imaging. European Radiology, 2020, 30, 425-431.	2.3	11
54	Prolidase deficiency: a new genetic cause of combined pulmonary fibrosis and emphysema syndrome in the adult. European Respiratory Journal, 2020, 55, 1901952.	3.1	11

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55	Early Prediction of Cardiac Complications in Acute Myocarditis by Means of Extracellular Volume Quantification With the Use of Dual-Energy Computed Tomography. JACC: Cardiovascular Imaging, 2021, 14, 2041-2042.	2.3	11
56	Automatic quantitative computed tomography measurement of longitudinal lung volume loss in interstitial lung diseases. European Radiology, 2022, 32, 4292-4303.	2.3	11
57	Tibiofemoral joint congruence is lower in females with ACL injuries than males with ACL injuries. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 1375-1383.	2.3	10
58	Phase-contrast MRI evaluation of haemodynamic changes induces by a coeliac axis stenosis in the gastroduodenal artery. British Journal of Radiology, 2017, 90, 20160802.	1.0	9
59	Diagnostic Performance of Extracellular Volume Quantified by Dual-Layer Dual-Energy CT for Detection of Acute Myocarditis. Journal of Clinical Medicine, 2021, 10, 3286.	1.0	9
60	Atrial premature activity detected after an ischaemic stroke unveils atrial myopathy. Archives of Cardiovascular Diseases, 2020, 113, 227-236.	0.7	8
61	Reduction of patient radiation dose with a new organ based dose modulation technique for thoraco-abdominopelvic computed tomography (CT) (Liver dose right index). Diagnostic and Interventional Imaging, 2018, 99, 483-492.	1.8	7
62	Mesenteric cavernous hemangioma: Imaging-pathologic correlation. Diagnostic and Interventional Imaging, 2015, 96, 495-498.	1.8	5
63	Benign and malignant enlarged chest nodes staging by diffusion-weighted MRI: an alternative to mediastinoscopy?. British Journal of Radiology, 2018, 91, 20160919.	1.0	5
64	What stroke image do we want? European survey on acute stroke imaging and revascularisation treatment. Health Policy and Technology, 2019, 8, 261-267.	1.3	5
65	Integrated imaging evaluation in infective endocarditis: A pictorial essay on clinical cases of extracardiac complications. International Journal of Infectious Diseases, 2021, 105, 62-67.	1.5	4
66	MRI-based detection of renal artery abnormalities related to renal denervation by catheter-based radiofrequency ablation in drug resistant hypertensive patients. European Radiology, 2018, 28, 3355-3361.	2.3	3
67	Embolization of Recurrent Pulmonary Arteriovenous Malformations by Ethylene Vinyl Alcohol Copolymer (OnyxÂ®) in Hereditary Hemorrhagic Telangiectasia: Safety and Efficacy. Journal of Personalized Medicine, 2022, 12, 1091.	1.1	3
68	Comparison of free breathing 3D mDIXON with single breath-hold 3D inversion recovery sequences for the assessment of Late Gadolinium Enhancement. European Journal of Radiology, 2021, 134, 109427.	1.2	2
69	mTOR inhibitors for the management of difficult lymphangioma in adults. Respiratory Medicine and Research, 2020, 77, 8-10.	0.4	1
70	Mise au point didactiqueÂ: lâ€™examen clinique objectif et structurÃ© ou Â«ÂECOSÂÂ» en imagerie mÃ©dicale. Journal D'imagerie Diagnostique Et Interventionnelle, 2021, 5, 43-43.	0.0	1