

# Salim A Si-Mohamed

## List of Publications by Year in descending order

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70  
papers

2,438  
citations

186265

28  
h-index

223800

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. <i>Scientific Reports</i> , 2019, 9, 14912.	3.3	157
2	Coronary CT Angiography with Photon-counting CT: First-In-Human Results. <i>Radiology</i> , 2022, 303, 303-313.	7.3	122
3	Multicolor spectral photon-counting computed tomography: in vivo dual contrast imaging with a high count rate scanner. <i>Scientific Reports</i> , 2017, 7, 4784.	3.3	115
4	Progressive fibrosing interstitial lung disease: a clinical cohort (the PROGRESS study). <i>European Respiratory Journal</i> , 2021, 57, 2002718.	6.7	103
5	Review of an initial experience with an experimental spectral photon-counting computed tomography system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 873, 27-35.	1.6	93
6	Evaluation of spectral photon counting computed tomography K-edge imaging for determination of gold nanoparticle biodistribution <i>in vivo</i> . <i>Nanoscale</i> , 2017, 9, 18246-18257.	5.6	89
7	Automatic knee meniscus tear detection and orientation classification with Mask-RCNN. <i>Diagnostic and Interventional Imaging</i> , 2019, 100, 235-242.	3.2	89
8	Dextran-Coated Cerium Oxide Nanoparticles: A Computed Tomography Contrast Agent for Imaging the Gastrointestinal Tract and Inflammatory Bowel Disease. <i>ACS Nano</i> , 2020, 14, 10187-10197.	14.6	89
9	Experimental feasibility of spectral photon-counting computed tomography with two contrast agents for the detection of endoleaks following endovascular aortic repair. <i>European Radiology</i> , 2018, 28, 3318-3325.	4.5	79
10	First In-Human Results of Computed Tomography Angiography for Coronary Stent Assessment With a Spectral Photon Counting Computed Tomography. <i>Investigative Radiology</i> , 2022, 57, 212-221.	6.2	62
11	Multicolour imaging with spectral photon-counting CT: a phantom study. <i>European Radiology Experimental</i> , 2018, 2, 34.	3.4	60
12	Assessment of candidate elements for development of spectral photon-counting CT specific contrast agents. <i>Scientific Reports</i> , 2018, 8, 12119.	3.3	58
13	Spectral Photon-Counting Computed Tomography (SPCCT): in-vivo single-acquisition multi-phase liver imaging with a dual contrast agent protocol. <i>Scientific Reports</i> , 2019, 9, 8458.	3.3	56
14	Spectral Photon-Counting Computed Tomography for Coronary Stent Imaging. <i>Investigative Radiology</i> , 2020, 55, 61-67.	6.2	56
15	In Vivo Molecular K-Edge Imaging of Atherosclerotic Plaque Using Photon-counting CT. <i>Radiology</i> , 2021, 300, 98-107.	7.3	55
16	Evaluation of a preclinical photon-counting CT prototype for pulmonary imaging. <i>Scientific Reports</i> , 2018, 8, 17386.	3.3	53
17	Comparison of five one-step reconstruction algorithms for spectral CT. <i>Physics in Medicine and Biology</i> , 2018, 63, 235001.	3.0	53
18	Feasibility of lung imaging with a large field-of-view spectral photon-counting CT system. <i>Diagnostic and Interventional Imaging</i> , 2021, 102, 305-312.	3.2	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. <i>Investigative Radiology</i> , 2018, 53, 629-639.	6.2	49
20	Feasibility of improving vascular imaging in the presence of metallic stents using spectral photon counting CT and K-edge imaging. <i>Scientific Reports</i> , 2019, 9, 19850.	3.3	46
21	Spectral Photon-Counting CT Technology in Chest Imaging. <i>Journal of Clinical Medicine</i> , 2021, 10, 5757.	2.4	39
22	Head-to-head comparison of lung perfusion with dual-energy CT and SPECT-CT. <i>Diagnostic and Interventional Imaging</i> , 2020, 101, 299-310.	3.2	37
23	Coronary calcium scoring potential of large field-of-view spectral photon-counting CT: a phantom study. <i>European Radiology</i> , 2022, 32, 152-162.	4.5	36
24	Comparison of two deep learning image reconstruction algorithms in chest CT images: A task-based image quality assessment on phantom data. <i>Diagnostic and Interventional Imaging</i> , 2022, 103, 21-30.	3.2	36
25	Five simultaneous artificial intelligence data challenges on ultrasound, CT, and MRI. <i>Diagnostic and Interventional Imaging</i> , 2019, 100, 199-209.	3.2	34
26	<i>In vivo</i> demonstration of pulmonary microvascular involvement in COVID-19 using dual-energy computed tomography. <i>European Respiratory Journal</i> , 2020, 56, 2002608.	6.7	33
27	Virtual versus true non-contrast dual-energy CT imaging for the diagnosis of aortic intramural hematoma. <i>European Radiology</i> , 2019, 29, 6762-6771.	4.5	32
28	Feasibility of human vascular imaging of the neck with a large field-of-view spectral photon-counting CT system. <i>Diagnostic and Interventional Imaging</i> , 2021, 102, 329-332.	3.2	31
29	Estimates of epidemiology, mortality and disease burden associated with progressive fibrosing interstitial lung disease in France (the PROGRESS study). <i>Respiratory Research</i> , 2021, 22, 162.	3.6	31
30	Kidney cortex segmentation in 2D CT with U-Nets ensemble aggregation. <i>Diagnostic and Interventional Imaging</i> , 2019, 100, 211-217.	3.2	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. <i>European Radiology</i> , 2021, 31, 795-803.	4.5	30
32	Differentiation between blood and iodine in a bovine brain—Initial experience with Spectral Photon-Counting Computed Tomography (SPCCT). <i>PLoS ONE</i> , 2019, 14, e0212679.	2.5	26
33	Comparison of image quality between spectral photon-counting CT and dual-layer CT for the evaluation of lung nodules: a phantom study. <i>European Radiology</i> , 2022, 32, 524-532.	4.5	26
34	Performance of Spectral Photon-Counting Coronary CT Angiography and Comparison with Energy-Integrating-Detector CT: Objective Assessment with Model Observer. <i>Diagnostics</i> , 2021, 11, 2376.	2.6	25
35	Performance of four dual-energy CT platforms for abdominal imaging: a task-based image quality assessment based on phantom data. <i>European Radiology</i> , 2021, 31, 5324-5334.	4.5	24
36	Pulmonary arteriovenous malformations in hereditary haemorrhagic telangiectasia: Correlations between computed tomography findings and cerebral complications. <i>European Radiology</i> , 2018, 28, 1338-1344.	4.5	23

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37	Hybrid Nano-GdF3 contrast media allows pre-clinical in vivo element-specific K-edge imaging and quantification. <i>Scientific Reports</i> , 2019, 9, 12090.	3.3	23
38	Liquid Embolic Agents in Spectral X-Ray Photon-Counting Computed Tomography using Tantalum K-Edge Imaging. <i>Scientific Reports</i> , 2019, 9, 5268.	3.3	23
39	Reduced-iodine-dose dual-energy coronary CT angiography: qualitative and quantitative comparison between virtual monochromatic and polychromatic CT images. <i>European Radiology</i> , 2021, 31, 7132-7142.	4.5	23
40	Nintedanib in idiopathic and secondary pleuroparenchymal fibroelastosis. <i>Orphanet Journal of Rare Diseases</i> , 2021, 16, 419.	2.7	20
41	Multicolor spectral photon counting CT monitors and quantifies therapeutic cells and their encapsulating scaffold in a model of brain damage. <i>Nanotheranostics</i> , 2020, 4, 129-141.	5.2	19
42	CT dose optimization for the detection of pulmonary arteriovenous malformation (PAVM): A phantom study. <i>Diagnostic and Interventional Imaging</i> , 2020, 101, 289-297.	3.2	19
43	Lung ultrasound score as a tool to monitor disease progression and detect ventilator-associated pneumonia during COVID-19-associated ARDS. <i>Heart and Lung: Journal of Acute and Critical Care</i> , 2021, 50, 700-705.	1.6	17
44	Improved coronary calcium detection and quantification with low-dose full field-of-view photon-counting CT: a phantom study. <i>European Radiology</i> , 2022, 32, 3447-3457.	4.5	17
45	Technical Note: Relative proton stopping power estimation from virtual monoenergetic images reconstructed from dual-layer computed tomography. <i>Medical Physics</i> , 2019, 46, 1821-1828.	3.0	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. <i>Quantitative Imaging in Medicine and Surgery</i> , 2022, 12, 1149-1162.	2.0	16
47	Iodinated polymer nanoparticles as contrast agent for spectral photon counting computed tomography. <i>Biomaterials Science</i> , 2020, 8, 5715-5728.	5.4	15
48	Virtual monoenergetic images from photon-counting spectral computed tomography to assess knee osteoarthritis. <i>European Radiology Experimental</i> , 2022, 6, 10.	3.4	15
49	Diagnostic performance of a low dose triple rule-out CT angiography using SAFIRE in emergency department. <i>Diagnostic and Interventional Imaging</i> , 2017, 98, 881-891.	3.2	14
50	Spectral photon-counting CT imaging of colorectal peritoneal metastases: initial experience in rats. <i>Scientific Reports</i> , 2020, 10, 13394.	3.3	14
51	Vein Diameter on Unenhanced Multidetector CT Predicts Reperfusion of Pulmonary Arteriovenous Malformation after Embolotherapy. <i>European Radiology</i> , 2016, 26, 2723-2729.	4.5	12
52	Nepriylsin levels at the acute phase of ST-elevation myocardial infarction. <i>Clinical Cardiology</i> , 2019, 42, 32-38.	1.8	12
53	“Dark-blood” dual-energy computed tomography angiography for thoracic aortic wall imaging. <i>European Radiology</i> , 2020, 30, 425-431.	4.5	11
54	Prolidase deficiency: a new genetic cause of combined pulmonary fibrosis and emphysema syndrome in the adult. <i>European Respiratory Journal</i> , 2020, 55, 1901952.	6.7	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. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 2041-2042.	5.3	11
56	Automatic quantitative computed tomography measurement of longitudinal lung volume loss in interstitial lung diseases. <i>European Radiology</i> , 2022, 32, 4292-4303.	4.5	11
57	Tibiofemoral joint congruence is lower in females with ACL injuries than males with ACL injuries. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 1375-1383.	4.2	10
58	Phase-contrast MRI evaluation of haemodynamic changes induced by a coeliac axis stenosis in the gastroduodenal artery. <i>British Journal of Radiology</i> , 2017, 90, 20160802.	2.2	9
59	Diagnostic Performance of Extracellular Volume Quantified by Dual-Layer Dual-Energy CT for Detection of Acute Myocarditis. <i>Journal of Clinical Medicine</i> , 2021, 10, 3286.	2.4	9
60	Atrial premature activity detected after an ischaemic stroke unveils atrial myopathy. <i>Archives of Cardiovascular Diseases</i> , 2020, 113, 227-236.	1.6	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). <i>Diagnostic and Interventional Imaging</i> , 2018, 99, 483-492.	3.2	7
62	Mesenteric cavernous hemangioma: Imaging-pathologic correlation. <i>Diagnostic and Interventional Imaging</i> , 2015, 96, 495-498.	3.2	5
63	Benign and malignant enlarged chest nodes staging by diffusion-weighted MRI: an alternative to mediastinoscopy?. <i>British Journal of Radiology</i> , 2018, 91, 20160919.	2.2	5
64	What stroke image do we want? European survey on acute stroke imaging and revascularisation treatment. <i>Health Policy and Technology</i> , 2019, 8, 261-267.	2.5	5
65	Integrated imaging evaluation in infective endocarditis: A pictorial essay on clinical cases of extracardiac complications. <i>International Journal of Infectious Diseases</i> , 2021, 105, 62-67.	3.3	4
66	MRI-based detection of renal artery abnormalities related to renal denervation by catheter-based radiofrequency ablation in drug resistant hypertensive patients. <i>European Radiology</i> , 2018, 28, 3355-3361.	4.5	3
67	Embolization of Recurrent Pulmonary Arteriovenous Malformations by Ethylene Vinyl Alcohol Copolymer (Onyx®) in Hereditary Hemorrhagic Telangiectasia: Safety and Efficacy. <i>Journal of Personalized Medicine</i> , 2022, 12, 1091.	2.5	3
68	Comparison of free breathing 3D mDIXON with single breath-hold 3D inversion recovery sequences for the assessment of Late Gadolinium Enhancement. <i>European Journal of Radiology</i> , 2021, 134, 109427.	2.6	2
69	mTOR inhibitors for the management of difficult lymphangioma in adults. <i>Respiratory Medicine and Research</i> , 2020, 77, 8-10.	0.6	1
70	Mise au point didactique: l'examen clinique objectif et structuré ou «ÂECOSÂ» en imagerie médicale. <i>Journal D'imagerie Diagnostique Et Interventionnelle</i> , 2021, 5, 43-43.	0.0	1