Atul Padole

List of Publications by Citations

29 papers	799 citations	15 h-index	28 g-index
30 ext. papers	988 ext. citations	4.1 avg, IF	4.02 L-index

#	Paper	IF	Citations
29	CT radiation dose and iterative reconstruction techniques. *American Journal of Roentgenology*, **2015**, 204, W384-92	5.4	134
28	Competitive performance of a modularized deep neural network compared to commercial algorithms for low-dose CT image reconstruction. *Nature Machine Intelligence*, **2019**, 1, 269-276	22.5	131
27	Deep learning in chest radiography: Detection of findings and presence of change. *PLoS ONE*, **2018**, 13, e0204155	3.7	82
26	Computed tomography (CT) of the chest at less than 1 mSv: an ongoing prospective clinical trial of chest CT at submillisievert radiation doses with iterative model image reconstruction and iDose4 technique. *Journal of Computer Assisted Tomography*, **2014**, 38, 613-9	2.2	48
25	Tube potential and CT radiation dose optimization. *American Journal of Roentgenology*, **2015**, 204, W4-10	5.4	41
24	Submillisievert chest CT with filtered back projection and iterative reconstruction techniques. *American Journal of Roentgenology*, **2014**, 203, 772-81	5.4	41
23	Dose reduction in pediatric abdominal CT: use of iterative reconstruction techniques across different CT platforms. *Pediatric Radiology*, **2015**, 45, 1046-55	2.8	40
22	Ultra-low dose abdominal MDCT: using a knowledge-based Iterative Model Reconstruction technique for substantial dose reduction in a prospective clinical study. *European Journal of Radiology*, **2015**, 84, 2-10	4.7	38
21	Radiation dose optimization and thoracic computed tomography. *Radiologic Clinics of North America*, **2014**, 52, 1-15	2.3	32
20	Assessment of Filtered Back Projection, Adaptive Statistical, and Model-Based Iterative Reconstruction for Reduced Dose Abdominal Computed Tomography. *Journal of Computer Assisted Tomography*, **2015**, 39, 462-7	2.2	24
19	Ultra low-dose chest CT using filtered back projection: comparison of 80-, 100- and 120 kVp protocols in a prospective randomized study. *European Journal of Radiology*, **2014**, 83, 1934-44	4.7	20
18	Dose reduction for chest CT: comparison of two iterative reconstruction techniques. *Acta Radiologica*, **2015**, 56, 688-95	2	17
17	Size-specific dose estimates: Localizer or transverse abdominal computed tomography images?. *World Journal of Radiology*, **2014**, 6, 210-7	2.9	17
16	Iterative image reconstruction and its role in cardiothoracic computed tomography. *Journal of Thoracic Imaging*, **2013**, 28, 355-67	5.6	17
15	Dual-Energy Computed Tomographic Applications for Differentiation of Intracranial Hemorrhage, Calcium, and Iodine. *Neuroimaging Clinics of North America*, **2017**, 27, 401-409	3	15
14	Imaging characteristics of BRAF-mutant non-small cell lung cancer by functional class. *Lung Cancer*, **2019**, 129, 80-84	5.9	13
13	Ultralow-Dose Abdominal Computed Tomography: Comparison of 2 Iterative Reconstruction Techniques in a Prospective Clinical Study. *Journal of Computer Assisted Tomography*, **2015**, 39, 489-98	2.2	12

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12	A new technique to characterize CT scanner bow-tie filter attenuation and applications in human cadaver dosimetry simulations. *Medical Physics*, **2015**, 42, 6274-82	4.4	11
11	Assessment of chest CT at CTDI less than 1 mGy with iterative reconstruction techniques. *British Journal of Radiology*, **2017**, 90, 20160625	3.4	10
10	Preliminary results: prospective clinical study to assess image-based iterative reconstruction for abdominal computed tomography acquired at 2 radiation dose levels. *Journal of Computer Assisted Tomography*, **2014**, 38, 117-22	2.2	10
9	Diffuse Lung Metastases in -Mutant Non-Small Cell Lung Cancer. *Cancers*, **2019**, 11,	6.6	9
8	In vitro dose measurements in a human cadaver with abdomen/pelvis CT scans. *Medical Physics*, **2014**, 41, 091911	4.4	9
7	Assessment of sub-milli-sievert abdominal computed tomography with iterative reconstruction techniques of different vendors. *World Journal of Radiology*, **2016**, 8, 618-27	2.9	9
6	Quantification of interstitial fluid on whole body CT: comparison with whole body autopsy. *Forensic Science, Medicine, and Pathology*, **2015**, 11, 488-96	1.5	5
5	Comparison of Measured and Estimated CT Organ Doses for Modulated and Fixed Tube Current:: A Human Cadaver Study. *Academic Radiology*, **2016**, 23, 634-42	4.3	4
4	Point Organ Radiation Dose in Abdominal CT: Effect of Patient Off-Centering in an Experimental Human Cadaver Study. *Radiation Protection Dosimetry*, **2017**, 175, 440-449	0.9	3
3	Role of compressive sensing technique in dose reduction for chest computed tomography: a prospective blinded clinical study. *Journal of Computer Assisted Tomography*, **2014**, 38, 760-7	2.2	3
2	Radiomic features of primary tumor by lung cancer stage: analysis in mutated non-small cell lung cancer. *Translational Lung Cancer Research*, **2020**, 9, 1441-1451	4.4	3
1	What is the minimal radiation dose that can be used for detecting pleural effusion?. *American Journal of Roentgenology*, **2014**, 203, 118-22	5.4	1