Damiano Caruso

List of Publications by Year
in descending order

104 papers	2,885 citations	185998 28 h-index	197535 49 g-index
104 all docs	104 docs citations	104 times ranked	4309 citing authors

#	Article	IF	Citations
1	Chest CT Features of COVID-19 in Rome, Italy. Radiology, 2020, 296, E79-E85.	3.6	474
2	Visceral fat shows the strongest association with the need of intensive care in patients with COVID-19. Metabolism: Clinical and Experimental, 2020, 111, 154319.	1.5	159
3	Cinematic Rendering in CT: A Novel, Lifelike 3D Visualization Technique. American Journal of Roentgenology, 2017, 209, 370-379.	1.0	152
4	Diagnostic performance of computed tomography and magnetic resonance imaging for detecting peritoneal metastases: systematic review and meta-analysis. Radiologia Medica, 2017, 122, 1-15.	4.7	110
5	Single- and dual-energy CT of the abdomen: comparison of radiation dose and image quality of 2nd and 3rd generation dual-source CT. European Radiology, 2017, 27, 642-650.	2.3	93
6	Post-Acute Sequelae of COVID-19 Pneumonia: Six-month Chest CT Follow-up. Radiology, 2021, 301, E396-E405.	3.6	92
7	Diffusion-Weighted Imaging in Oncology: An Update. Cancers, 2020, 12, 1493.	1.7	85
8	Performance of diffusion-weighted imaging, perfusion imaging, and texture analysis in predicting tumoral response to neoadjuvant chemoradiotherapy in rectal cancer patients studied with 3T MR: initial experience. Abdominal Radiology, 2016, 41, 1728-1735.	1.0	67
9	Coronary CT angiography derived morphological and functional quantitative plaque markers correlated with invasive fractional flow reserve for detecting hemodynamically significant stenosis. Journal of Cardiovascular Computed Tomography, 2016, 10, 199-206.	0.7	59
10	A noise-optimized virtual monoenergetic reconstruction algorithm improves the diagnostic accuracy of late hepatic arterial phase dual-energy CT for the detection of hypervascular liver lesions. European Radiology, 2018, 28, 3393-3404.	2.3	55
11	Artificial intelligence in cardiac radiology. Radiologia Medica, 2020, 125, 1186-1199.	4.7	54
12	Virtual unenhanced imaging of the liver with third-generation dual-source dual-energy CT and advanced modeled iterative reconstruction. European Journal of Radiology, 2016, 85, 1257-1264.	1.2	53
13	Accuracy of Noncontrast Quiescent-Interval Single-Shot Lower Extremity MR Angiography Versus CTÂAngiography for Diagnosis of Peripheral Artery Disease. JACC: Cardiovascular Imaging, 2017, 10, 1116-1124.	2.3	47
14	Can dual-energy computed tomography improve visualization of hypoenhancing liver lesions in portal venous phase? Assessment of advanced image-based virtual monoenergetic images. Clinical Imaging, 2017, 41, 118-124.	0.8	46
15	Optimization of window settings for virtual monoenergetic imaging in dual-energy CT of the liver: A multi-reader evaluation of standard monoenergetic and advanced imaged-based monoenergetic datasets. European Journal of Radiology, 2016, 85, 695-699.	1.2	44
16	Quantitative Chest CT analysis in discriminating COVID-19 from non-COVID-19 patients. Radiologia Medica, 2021, 126, 243-249.	4.7	41
17	Radiomics and Magnetic Resonance Imaging of Rectal Cancer: From Engineering to Clinical Practice. Diagnostics, 2021, 11, 756.	1.3	41
18	Automated tube voltage selection for radiation dose and contrast medium reduction at coronary CT angiography using 3rd generation dual-source CT. European Radiology, 2016, 26, 3608-3616.	2.3	39

#	Article	IF	Citations
19	Myocardial perfusion imaging with dual energy CT. European Journal of Radiology, 2016, 85, 1914-1921.	1.2	39
20	Dynamic CT myocardial perfusion imaging. European Journal of Radiology, 2016, 85, 1893-1899.	1.2	38
21	Haralickâ€™s texture features for the prediction of response to therapy in colorectal cancer: a preliminary study. Radiologia Medica, 2018, 123, 161-167.	4.7	38
22	Impact of coronavirus disease 2019 (COVID-19) emergency on Italian radiologists: a national survey. European Radiology, 2020, 30, 6635-6644.	2.3	38
23	Typical and atypical COVID-19 computed tomography findings. World Journal of Clinical Cases, 2020, 8, 3177-3187.	0.3	38
24	T(Rho) and magnetization transfer and INvErsion recovery (TRAMINER)â€prepared imaging: A novel contrastâ€enhanced flowâ€independent darkâ€blood technique for the evaluation of myocardial late gadolinium enhancement in patients with myocardial infarction. Journal of Magnetic Resonance Imaging, 2017, 45, 1429-1437.	1.9	36
25	Imaging side effects and complications of chemotherapy and radiation therapy: a pictorial review from head to toe. Insights Into Imaging, 2021, 12, 76.	1.6	35
26	Dynamic contrast-enhanced magnetic resonance imaging in locally advanced rectal cancer: role ofÂperfusion parameters in the assessment of response to treatment. Radiologia Medica, 2019, 124, 331-338.	4.7	34
27	Radiomics in Oncology, Part 1: Technical Principles and Gastrointestinal Application in CT and MRI. Cancers, 2021, 13, 2522.	1.7	34
28	Structured Reporting of Rectal Cancer Staging and Restaging: A Consensus Proposal. Cancers, 2021, 13, 2135.	1.7	32
29	CT-based radiomics for prediction of therapeutic response to Everolimus in metastatic neuroendocrine tumors. Radiologia Medica, 2022, 127, 691-701.	4.7	32
30	Lean Body Weight-Tailored Iodinated Contrast Injection in Obese Patient: Boer versus James Formula. BioMed Research International, 2018, 2018, 1-6.	0.9	29
31	The optimal contrast media policy in CT of the liver. Part I: Technical notes. Acta Radiologica, 2011, 52, 467-472.	0.5	28
32	Dual-Energy Computed Tomography in Cardiothoracic Vascular Imaging. Radiologic Clinics of North America, 2018, 56, 521-534.	0.9	28
33	Optimization of window settings for standard and advanced virtual monoenergetic imaging in abdominal dual-energy CT angiography. Abdominal Radiology, 2017, 42, 772-780.	1.0	27
34	Diagnostic accuracy of coronary CT angiography using 3rd-generation dual-source CT and automated tube voltage selection: Clinical application in a non-obese and obese patient population. European Radiology, 2017, 27, 2298-2308.	2.3	26
35	Radiomics in Oncology, Part 2: Thoracic, Genito-Urinary, Breast, Neurological, Hematologic and Musculoskeletal Applications. Cancers, 2021, 13, 2681.	1.7	26
36	Effect of automated tube voltage selection, integrated circuit detector and advanced iterative reconstruction on radiation dose and image quality of 3rd generation dual-source aortic CT angiography: An intra-individual comparison. European Journal of Radiology, 2016, 85, 972-978.	1.2	25

#	Article	IF	Citations
37	A noise-optimized virtual monochromatic reconstruction algorithm improves stent visualization and diagnostic accuracy for detection of in-stent re-stenosis in lower extremity run-off CT angiography. European Radiology, 2016, 26, 4380-4389.	2.3	25
38	Automated Segmentation of Colorectal Tumor in 3D MRI Using 3D Multiscale Densely Connected Convolutional Neural Network. Journal of Healthcare Engineering, 2019, 2019, 1-11.	1.1	25
39	CT based radiomic approach on first line pembrolizumab in lung cancer. Scientific Reports, 2021, 11, 6633.	1.6	25
40	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.	2.3	23
41	Modified calcium subtraction in dual-energy CT angiography of the lower extremity runoff: impact on diagnostic accuracy for stenosis detection. European Radiology, 2019, 29, 4783-4793.	2.3	22
42	CT texture analysis of liver metastases in PNETs versus NPNETs: Correlation with histopathological findings. European Journal of Radiology, 2020, 124, 108812.	1.2	21
43	Chest CT texture-based radiomics analysis in differentiating COVID-19 from other interstitial pneumonia. Radiologia Medica, 2021, 126, 1415-1424.	4.7	20
44	Coronary Computed Tomography Angiographyâ€“Derived Plaque Quantification in Patients With Acute CoronaryÂSyndrome. American Journal of Cardiology, 2017, 119, 712-718.	0.7	18
45	Optimizing Contrast Media Injection Protocols in Computed Tomography Angiography at Different Tube Voltages. Journal of Computer Assisted Tomography, 2017, 41, 804-810.	0.5	18
46	Magnetic resonance tumor regression grade (MR-TRG) to assess pathological complete response following neoadjuvant radiochemotherapy in locally advanced rectal cancer. Oncotarget, 2017, 8, 114746-114755.	0.8	17
47	Involvement of radiologists in oncologic multidisciplinary team meetings: an international survey by the European Society of Oncologic Imaging. European Radiology, 2021, 31, 983-991.	2.3	17
48	Correction Factors for CT Coronary Artery Calcium Scoring Using Advanced Modeled Iterative Reconstruction Instead of Filtered Back Projection. Academic Radiology, 2016, 23, 1480-1489.	1.3	16
49	Iterative beam-hardening correction with advanced modeled iterative reconstruction in low voltage CT coronary calcium scoring with tin filtration: Impact on coronary artery calcium quantification and image quality. Journal of Cardiovascular Computed Tomography, 2017, 11, 354-359.	0.7	16
50	Half-dose Coronary Artery Calcium Scoring. Journal of Thoracic Imaging, 2019, 34, 18-25.	0.8	16
51	High concentration (400mgI/mL) versus low concentration (320mgI/mL) iodinated contrast media in multi detector computed tomography of the liver: A randomized, single centre, non-inferiority study. European Journal of Radiology, 2012, 81, 3096-3101.	1.2	15
52	Radiogenomics in Clear Cell Renal Cell Carcinoma: Correlations Between Advanced CT Imaging (Texture Analysis) and MicroRNAs Expression. Technology in Cancer Research and Treatment, 2019, 18, 153303381987845.	0.8	15
53	Haralick's Texture Analysis Applied to Colorectal T2-Weighted MRI: A Preliminary Study of Significance for Cancer Evolution. , 2017, , .		14
54	Optimization of contrast medium volume for abdominal CT in oncologic patients: prospective comparison between fixed and lean body weight-adapted dosing protocols. Insights Into Imaging, 2021, 12, 40.	1.6	14

#	Article	IF	Citations
55	Prognostic role of pre-treatment magnetic resonance imaging (MRI)-based radiomic analysis in effectively cured head and neck squamous cell carcinoma (HNSCC) patients. Acta OncolÃ³gica, 2021, 60, 1192-1200.	0.8	13
56	The optimal contrast media policy in CT of the liver. Part II: Clinical protocols. Acta Radiologica, 2011, 52, 473-480.	0.5	12
57	CT angiography for planning transcatheter aortic valve replacement using automated tube voltage selection: Image quality and radiation exposure. European Journal of Radiology, 2017, 86, 276-283.	1.2	12
58	Contrast media injection protocol optimization for dual-energy coronary CT angiography: results from a circulation phantom. European Radiology, 2018, 28, 3473-3481.	2.3	11
59	Bowel preparation in CT colonography: Is diet restriction necessary? A randomised trial (DIETSAN). European Radiology, 2018, 28, 382-389.	2.3	11
60	Value of minimum intensity projections for chest CT in COVID-19 patients. European Journal of Radiology, 2021, 135, 109478.	1.2	11
61	Imaging of abdominal complications of COVID-19 infection. BJR|Open, 2021, 3, 20200052.	0.4	11
62	MDCT of the liver in obese patients: evaluation of a different method to optimize iodine dose. Abdominal Radiology, 2017, 42, 2420-2427.	1.0	10
63	Magnetic Resonance of Rectal Cancer Response to Therapy: An Image Quality Comparison between 3.0 and 1.5 Tesla. BioMed Research International, 2020, 2020, 1-8.	0.9	10
64	Twenty Years On: RECIST as a Biomarker of Response in Solid Tumours an EORTC Imaging Group â€“ ESOI Joint Paper. Frontiers in Oncology, 2021, 11, 800547.	1.3	10
65	Diagnostic performance of CT lung severity score and quantitative chest CT for stratification of COVID-19 patients. Radiologia Medica, 2022, 127, 309-317.	4.7	10
66	Vascular Imaging Before Transcatheter Aortic Valve Replacement (TAVR): Why and How?. Current Cardiology Reports, 2016, 18, 14.	1.3	9
67	USPIOâ€labeling in M1 and M2â€polarized macrophages: An in vitro study using a clinical magnetic resonance scanner. Journal of Cellular Physiology, 2018, 233, 5823-5828.	2.0	9
68	Carotid and cerebrovascular dual-energy computed tomography angiography: Optimization of window settings for virtual monoenergetic imaging reconstruction. European Journal of Radiology, 2020, 130, 109166.	1.2	9
69	Influence of Adaptive Statistical Iterative Reconstructions on CT Radiomic Features in Oncologic Patients. Diagnostics, 2021, 11, 1000.	1.3	9
70	Radiomics and functional imaging in lung cancer: the importance of radiological heterogeneity beyond FDG PET/CT and lung biopsy. European Journal of Radiology, 2021, 142, 109874.	1.2	9
71	Layered enhancement at magnetic resonance enterography in inflammatory bowel disease: A meta-analysis. World Journal of Gastroenterology, 2019, 25, 4555-4566.	1.4	8
72	How new technologies could impact on radiology diagnosis and assessment of pancreatic lesions: Future perspectives. Endoscopic Ultrasound, 2018, 7, 310.	0.6	8

#	Article	IF	Citations
73	MRI of the endometrium - from normal appearances to rare pathology. British Journal of Radiology, 2021, 94, 20201347.	1.0	7
74	Diagnostic yield of CT-guided lung biopsies: how can we limit negative sampling?. British Journal of Radiology, 2022, 95, 20210434.	1.0	7
75	Hepatocellular Carcinoma Drug-Eluting Bead Transarterial Chemoembolization (DEB-TACE): Outcome Analysis Using a Model Based On Pre-Treatment CT Texture Features. Diagnostics, 2021, 11, 956.	1.3	6
76	The Role of Chest CT Radiomics in Diagnosis of Lung Cancer or Tuberculosis: A Pilot Study. Diagnostics, 2022, 12, 739.	1.3	6
77	Automatic segmentation of colorectal cancer in 3D MRI by combining deep learning and 3D level-set algorithm-a preliminary study. , 2018, , .		5
78	Rectal cancer response to neoadjuvant chemoradiotherapy evaluated with MRI: Development and validation of a classification algorithm. European Journal of Radiology, 2022, 147, 110146.	1.2	5
79	Aspiration Thrombectomy with the Indigo System for Acute Lower Limb Ischemia: Preliminary experience and analysis of parameters affecting the outcome. Annals of Vascular Surgery, 2021, 76, 426-435.	0.4	4
80	Segmenting MR Images by Level-Set Algorithms for Perspective Colorectal Cancer Diagnosis. Lecture Notes in Computational Vision and Biomechanics, 2018, , 396-406.	0.5	4
81	Cardiac Magnetic Resonance Imaging in Immune Check-Point Inhibitor Myocarditis: A Systematic Review. Journal of Imaging, 2022, 8, 99.	1.7	4
82	Radiomic Cancer Hallmarks to Identify High-Risk Patients in Non-Metastatic Colon Cancer. Cancers, 2022, 14, 3438.	1.7	4
83	Dynamic MR of the pelvic floor: Influence of alternative methods to draw the pubococcygeal line (PCL) on the grading of pelvic floor descent. European Journal of Radiology Open, 2019, 6, 187-191.	0.7	3
84	CT myocardial perfusion: state of the science. Minerva Cardiology and Angiology, 2017, 65, 252-264.	0.4	3
85	Magnetic resonance imaging radiomics in prostate cancer radiology: what is currently known?. Digital Diagnostics, 2022, 2, 441-452.	0.3	3
86	The Role of Contrast-Enhanced Imaging for Colorectal Cancer Management. Current Colorectal Cancer Reports, 2019, 15, 181-189.	1.0	2
87	Low-volume reduced bowel preparation regimen for CT colonography: a randomized noninferiority trial. Abdominal Radiology, 2021, 46, 4556-4566.	1.0	2
88	Management decisions of an Academic Radiology Department during COVID-19 pandemic: the important support of a business analytics software. European Radiology, 2022, , 1.	2.3	2
89	Accuracy of a prototype dark blood late gadolinium enhancement technique for the detection and quantification of myocardial infarction. Journal of Cardiovascular Magnetic Resonance, 2016, 18, Q65.	1.6	1
90	The Role of MRI and CT in the Diagnosis of Atherosclerosis in an Aging Population. Current Radiology Reports, 2016, 4, 1.	0.4	1

#	Article	IF	Citations
91	Aneurysm of Vieussensâ€™ arterial ring in a patient studied with coronary computed tomography. Journal of Cardiovascular Medicine, 2017, 18, 696-697.	0.6	1
92	Computer Aided Effective Prediction of Complete Responders After Radiochemotherapy Based on Tumor Regression Grade Estimated by MR Imaging. Lecture Notes in Computational Vision and Biomechanics, 2019, , 257-266.	0.5	1
93	Post-infarction ventricular septal rupture with a contained right ventricular pseudoaneurysm formation. BJR|case Reports, 2022, 8, 20210129.	0.1	1
94	Overview of Myocardial T1 Mapping Applications. Current Radiology Reports, 2015, 3, 1.	0.4	0
95	The Challenging Patient. Contemporary Medical Imaging, 2019, , 125-130.	0.3	0
96	Mr Image Processing to Predict Complete Responders by Evaluating the Tumor Regression Grade: A Sensitivity Analysis. , 2019, , .		0
97	Severe chest allodynia as an unusual first presentation of hydatid disease: a case report. BMC Infectious Diseases, 2019, 19, 37.	1.3	0
98	Radiogenomics in clear cell renal cell carcinoma: Correlations between advanced CT imaging (texture) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.2	0
99	Comparison of Triple-Rule-Out Prospectively ECG-triggered Systolic and Diastolic Acquisition Protocol in Patients With Acute Chest Pain. Journal of Thoracic Imaging, 2021, Publish Ahead of Print, .	0.8	0
100	Perioperative Chemotherapy with FLOT Scheme in Resectable Gastric Adenocarcinoma: A Preliminary Correlation between TRG and Radiomics. Applied Sciences (Switzerland), 2021, 11, 9211.	1.3	0
101	Artificial intelligence: what the radiologist should know. Journal of Radiological Review, 2019, 6, .	0.1	0
102	Virtual Colonoscopy. , 2020, , 707-714.		0
103	Computed Tomography of the Liver. Medical Radiology, 2021, , 77-98.	0.0	0
104	Radiomics and artificial intelligence. , 2021, , .		0