

Rendon C Nelson

List of Publications by Year in descending order

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87
papers

7,354
citations

87401

40
h-index

66518

82
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89
all docs

89
docs citations

89
times ranked

8255
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of clinical efficacy, subjective user experience, and safety for two different core biopsy needles, the Achieve® and Marquee®. Abdominal Radiology, 2022, 47, 2632-2639.	1.0	1
2	Dual-Energy CT Vital Iodine Tumor Burden for Response Assessment in Patients With Metastatic GIST Undergoing TKI Therapy: Comparison With Standard CT and FDG PET/CT Criteria. American Journal of Roentgenology, 2022, 218, 659-669.	1.0	8
3	HSP90-Specific nIR Probe Identifies Aggressive Prostate Cancers: Translation from Preclinical Models to a Human Phase I Study. Molecular Cancer Therapeutics, 2022, 21, 217-226.	1.9	2
4	Variability of quantitative measurements of metastatic liver lesions: a multi-radiation-dose-level and multi-reader comparison. Abdominal Radiology, 2021, 46, 226-236.	1.0	3
5	Can procedure time for paracentesis be optimized based on bottle selection?. Abdominal Radiology, 2021, 46, 4062-4067.	1.0	0
6	Evaluation of Intraindividual Contrast Enhancement Variability for Determining the Maximum Achievable Consistency in CT. American Journal of Roentgenology, 2020, 214, 18-23.	1.0	6
7	Ultrasound-guided non-targeted liver core biopsy: comparison of the efficacy of two different core needle biopsy systems using an ex-vivo animal model and retrospective review of clinical experience. Clinical Imaging, 2020, 61, 36-42.	0.8	2
8	Reproducibility of CT Radiomic Features within the Same Patient: Influence of Radiation Dose and CT Reconstruction Settings. Radiology, 2019, 293, 583-591.	3.6	172
9	Negative Biopsy of Focal Hepatic Lesions: Decision Tree Model for Patient Management. American Journal of Roentgenology, 2019, 212, 677-685.	1.0	18
10	High-Pitch Wide-Coverage Fast-Kilovoltage-Switching Dual-Energy CT: Impact of Pitch on Noise, Spatial Resolution, and Iodine Quantification in a Phantom Study. American Journal of Roentgenology, 2019, 212, W64-W72.	1.0	8
11	Can Realistic Liver Tissue Surrogates Accurately Quantify the Impact of Reduced-kV Imaging on Attenuation and Contrast of Parenchyma and Lesions?. Academic Radiology, 2019, 26, 640-650.	1.3	2
12	Virtual Unenhanced Images at Dual-Energy CT: Influence on Renal Lesion Characterization. Radiology, 2019, 291, 381-390.	3.6	49
13	Can Texture Analysis Be Used to Distinguish Benign From Malignant Adrenal Nodules on Unenhanced CT, Contrast-Enhanced CT, or In-Phase and Opposed-Phase MRI?. American Journal of Roentgenology, 2019, 212, 554-561.	1.0	44
14	How accurate and precise are CT based measurements of iodine concentration? A comparison of the minimum detectable concentration difference among single source and dual source dual energy CT in a phantom study. European Radiology, 2019, 29, 2069-2078.	2.3	29
15	Hepatic Heterogeneity and Attenuation on Contrast-Enhanced CT in Patients With the Hypovolemic Shock Complex: Objective Classification Using a Contemporary Cohort. Current Problems in Diagnostic Radiology, 2019, 48, 224-228.	0.6	3
16	Splenic contraction: a new member of the hypovolemic shock complex. Abdominal Radiology, 2018, 43, 2375-2383.	1.0	23
17	Renal Lesion Characterization with Spectral CT: Determining the Optimal Energy for Virtual Monoenergetic Reconstruction. Radiology, 2018, 287, 874-883.	3.6	26
18	A Third-Generation Adaptive Statistical Iterative Reconstruction Technique: Phantom Study of Image Noise, Spatial Resolution, Lesion Detectability, and Dose Reduction Potential. American Journal of Roentgenology, 2018, 210, 1301-1308.	1.0	59

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19	The Effect of Contrast Material on Radiation Dose at CT: Part I. Incorporation of Contrast Material Dynamics in Anthropomorphic Phantoms. <i>Radiology</i> , 2017, 283, 739-748.	3.6	40
20	Characterization of Small Focal Renal Lesions: Diagnostic Accuracy with Single-Phase Contrast-enhanced Dual-Energy CT with Material Attenuation Analysis Compared with Conventional Attenuation Measurements. <i>Radiology</i> , 2017, 284, 737-747.	3.6	69
21	The Effect of Contrast Material on Radiation Dose at CT: Part II. A Systematic Evaluation across 58 Patient Models. <i>Radiology</i> , 2017, 283, 749-757.	3.6	59
22	Characterization of Small (< 4 cm) Focal Renal Lesions: Diagnostic Accuracy of Spectral Analysis Using Single-Phase Contrast-Enhanced Dual-Energy CT. <i>American Journal of Roentgenology</i> , 2017, 209, 815-825.	1.0	17
23	Image-Rich Radiology Reports: A Value-Based Model to Improve Clinical Workflow. <i>Journal of the American College of Radiology</i> , 2017, 14, 57-64.	0.9	12
24	Can combining triple-arterial phase acquisition with fluoroscopic triggering provide both optimal early and late hepatic arterial phase images during gadoxetic acid-enhanced MRI?. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 1073-1081.	1.9	14
25	Adoption of Splenic Enhancement to Time and Trigger the Late Hepatic Arterial Phase During MDCT of the Liver: Proof of Concept and Clinical Feasibility. <i>American Journal of Roentgenology</i> , 2016, 207, 310-320.	1.0	4
26	Effect of a Noise-Optimized Second-Generation Monoenergetic Algorithm on Image Noise and Conspicuity of Hypervascular Liver Tumors: An In Vitro and In Vivo Study. <i>American Journal of Roentgenology</i> , 2016, 206, 1222-1232.	1.0	45
27	How reader perception of capsule affects interpretation of washout in hypervascular liver nodules in patients at risk for hepatocellular carcinoma. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 1337-1345.	1.9	35
28	Image-guided percutaneous drainage: a review. <i>Abdominal Radiology</i> , 2016, 41, 629-636.	1.0	55
29	Quantitative Features of Liver Lesions, Lung Nodules, and Renal Stones at Multi-Detector Row CT Examinations: Dependency on Radiation Dose and Reconstruction Algorithm. <i>Radiology</i> , 2016, 279, 185-194.	3.6	93
30	Virtual Monochromatic Images from Dual-Energy Multidetector CT: Variance in CT Numbers from the Same Lesion between Single-Source Projection-based and Dual-Source Image-based Implementations. <i>Radiology</i> , 2016, 279, 269-277.	3.6	62
31	Dual-Energy Multidetector CT for the Characterization of Incidental Adrenal Nodules: Diagnostic Performance of Contrast-enhanced Material Density Analysis. <i>Radiology</i> , 2015, 274, 445-454.	3.6	77
32	Comparison of Acute Histologic and Biomechanical Effects of Radiofrequency Ablation and Cryoablation on Periarticular Structures in a Swine Model. <i>Journal of Vascular and Interventional Radiology</i> , 2015, 26, 1221-1228.e1.	0.2	17
33	Effect of radiologists' experience with an adaptive statistical iterative reconstruction algorithm on detection of hypervascular liver lesions and perception of image quality. <i>Abdominal Imaging</i> , 2015, 40, 2850-2860.	2.0	5
34	Dual-Energy MDCT for Imaging the Renal Mass. <i>American Journal of Roentgenology</i> , 2015, 204, W640-W647.	1.0	58
35	Impact of CT in elderly patients presenting to the emergency department with acute abdominal pain. <i>Abdominal Imaging</i> , 2015, 40, 2877-2882.	2.0	50
36	Diagnostic performance of imaging criteria for distinguishing autoimmune cholangiopathy from primary sclerosing cholangitis and bile duct malignancy. <i>Abdominal Imaging</i> , 2015, 40, 3052-3061.	2.0	22

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37	How the radiologist can add value in the evaluation of the pre- and post-surgical pancreas. Abdominal Imaging, 2015, 40, 2932-2944.	2.0	9
38	High-Pitch Dual-Source MDCT for Imaging of the Thoracoabdominal Aorta: Relationships Among Radiation Dose, Noise, Pitch, and Body Size in a Phantom Experiment and Clinical Study. American Journal of Roentgenology, 2015, 205, 834-839.	1.0	13
39	Concordance of hypervascular liver nodule characterization between the organ procurement and transplant network and liver imaging reporting and data system classifications. Journal of Magnetic Resonance Imaging, 2015, 42, 305-314.	1.9	42
40	Dual-Energy MDCT in Hypervascular Liver Tumors: Effect of Body Size on Selection of the Optimal Monochromatic Energy Level. American Journal of Roentgenology, 2014, 203, 1257-1264.	1.0	57
41	Adrenal Glands. , 2014, , 69-81.		0
42	Current Opinions on Medical Radiation: A Survey of Oncologists Regarding Radiation Exposure and Dose Reduction in Oncology Patients. Journal of the American College of Radiology, 2014, 11, 490-495.	0.9	7
43	Optimal Timing and Diagnostic Adequacy of Hepatocyte Phase Imaging with Gadoxetate-Enhanced Liver MRI. Academic Radiology, 2014, 21, 726-732.	1.3	23
44	Dual energy MDCT assessment of renal lesions: an overview. European Radiology, 2014, 24, 353-362.	2.3	41
45	State of the Art: Dual-Energy CT of the Abdomen. Radiology, 2014, 271, 327-342.	3.6	309
46	ACR Appropriateness Criteria Right Upper Quadrant Pain. Journal of the American College of Radiology, 2014, 11, 316-322.	0.9	98
47	Clinical impact of an adaptive statistical iterative reconstruction algorithm for detection of hypervascular liver tumours using a low tube voltage, high tube current MDCT technique. European Radiology, 2013, 23, 3325-3335.	2.3	32
48	IMAGING OF THE PANCREAS. , 2013, , 417-434.		0
49	Radiation Dose Reduction in Abdominal Computed Tomography During the Late Hepatic Arterial Phase Using a Model-Based Iterative Reconstruction Algorithm. Investigative Radiology, 2012, 47, 468-474.	3.5	49
50	Dual-Energy CT Applications in the Abdomen. American Journal of Roentgenology, 2012, 199, S64-S70.	1.0	121
51	Assessment of Vascular Contrast and Depiction of Stenoses in Abdominopelvic and Lower Extremity Vasculature. Academic Radiology, 2012, 19, 1149-1157.	1.3	26
52	New iterative reconstruction techniques for cardiovascular computed tomography: How do they work, and what are the advantages and disadvantages?. Journal of Cardiovascular Computed Tomography, 2011, 5, 286-292.	0.7	156
53	Appendicitis, Body Mass Index, and CT: Is CT More Valuable for Obese Patients than Thin Patients?. American Surgeon, 2011, 77, 471-475.	0.4	9
54	Body CT: Technical Advances for Improving Safety. American Journal of Roentgenology, 2011, 197, 33-41.	1.0	39

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55	Detection of Pancreatic Tumors, Image Quality, and Radiation Dose during the Pancreatic Parenchymal Phase: Effect of a Low-Tube-Voltage, High-Tube-Current CT Technique—Preliminary Results. <i>Radiology</i> , 2010, 256, 450-459.	3.6	135
56	Making the Diagnosis of Acute Appendicitis: Do More Preoperative CT Scans Mean Fewer Negative Appendectomies? A 10-year Study. <i>Radiology</i> , 2010, 254, 460-468.	3.6	164
57	Dual-Energy CT for Characterization of Adrenal Nodules: Initial Experience. <i>American Journal of Roentgenology</i> , 2010, 194, 1479-1483.	1.0	105
58	Focal Cystic High-Attenuation Lesions: Characterization in Renal Phantom by Using Photon-counting Spectral CT—Improved Differentiation of Lesion Composition. <i>Radiology</i> , 2010, 254, 270-276.	3.6	55
59	Low-Tube-Voltage, High-Tube-Current Multidetector Abdominal CT: Improved Image Quality and Decreased Radiation Dose with Adaptive Statistical Iterative Reconstruction Algorithm—Initial Clinical Experience. <i>Radiology</i> , 2010, 254, 145-153.	3.6	470
60	Dual-Energy Multidetector CT: How Does It Work, What Can It Tell Us, and When Can We Use It in Abdominopelvic Imaging? <i>Radiographics</i> , 2010, 30, 1037-1055.	1.4	333
61	Hypervascular Liver Tumors: Low Tube Voltage, High Tube Current Multidetector CT during Late Hepatic Arterial Phase for Detection—Initial Clinical Experience. <i>Radiology</i> , 2009, 251, 771-779.	3.6	218
62	Liver biopsy. <i>Hepatology</i> , 2009, 49, 1017-1044.	3.6	1,696
63	Reply:. <i>Hepatology</i> , 2009, 50, 655-656.	3.6	0
64	Dual Energy Versus Single Energy MDCT: Measurement of Radiation Dose Using Adult Abdominal Imaging Protocols. <i>Academic Radiology</i> , 2009, 16, 1400-1407.	1.3	92
65	In Vivo Guidance and Assessment of Liver Radio-Frequency Ablation with Acoustic Radiation Force Elastography. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1590-1603.	0.7	61
66	Hypervascular Liver Tumors: Low Tube Voltage, High Tube Current Multi-Detector Row CT for Enhanced Detection—Phantom Study. <i>Radiology</i> , 2008, 246, 125-132.	3.6	170
67	Acoustic radiation force impulse imaging of the abdomen: demonstration of feasibility and utility. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 1185-1198.	0.7	157
68	Acute Appendicitis: Added Diagnostic Value of Coronal Reformations from Isotropic Voxels at Multi-Detector Row CT. <i>Radiology</i> , 2005, 235, 879-885.	3.6	129
69	Radiation Issues with Multidetector Row Helical CT. <i>Critical Reviews in Diagnostic Imaging</i> , 2003, 44, 95-117.	0.1	9
70	Helical CT for Nephrolithiasis and Ureterolithiasis: Comparison of Conventional and Reduced Radiation-Dose Techniques. <i>Radiology</i> , 2003, 229, 575-580.	3.6	151
71	Liver Imaging with Multidetector Helical Computed Tomography. <i>Journal of Computer Assisted Tomography</i> , 2003, 27, S9-S16.	0.5	6
72	Radiation Issues with Multidetector Row Helical CT. <i>Critical Reviews in Diagnostic Imaging</i> , 2003, 44, 95-117.	0.1	3

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73	Liver: Single Breath-hold Dynamic Subtraction CT with Multi-â€œDetector Row Helical Technologyâ€œ Feasibility Study. Radiology, 2002, 222, 278-283.	3.6	31
74	Decreasing the Radiation Dose for Renal Stone CT. American Journal of Roentgenology, 2002, 178, 1058-1062.	1.0	75
75	Sonographically Guided Thrombin Injection of Iatrogenic Femoral Pseudoaneurysms. American Journal of Roentgenology, 2001, 177, 309-316.	1.0	122
76	Three-Dimensional CT of the Genitourinary Tract. Journal of Endourology, 2001, 15, 37-46.	1.1	23
77	Safety and Efficacy of Mangafodipir Trisodium (MnDPDP) Injection for Hepatic MRI in Adults: Results of the U.S. Multicenter Phase III Clinical Trials (Safety). Journal of Magnetic Resonance Imaging, 2000, 12, 186-197.	1.9	68
78	Treatment of Iatrogenic Femoral Arterial Pseudoaneurysms: Comparison of US-guided Thrombin Injection with Compression Repair. Radiology, 2000, 215, 403-408.	3.6	137
79	Multislice Helical CT to Facilitate Combined CT of the Neck, Chest, Abdomen, and Pelvis in Children. American Journal of Roentgenology, 2000, 174, 1620-1622.	1.0	24
80	Technique and role of ultrasound-guided aspiration of theca lutein cysts. Emergency Radiology, 1999, 6, 110-112.	1.0	1
81	Fine-needle aspiration with flow cytometric immunophenotyping for primary diagnosis of intra-abdominal lymphomas. , 1999, 21, 98-104.		29
82	Renal excretion of gadolinium mimicking calculi on non-contrast CT. Pediatric Radiology, 1998, 28, 417-417.	1.1	2
83	MR of focal liver lesions: Comparison of breath-hold and non-breath-hold hybrid rare and conventional spin-echo T2-weighted pulse sequences. Journal of Magnetic Resonance Imaging, 1996, 6, 596-602.	1.9	23
84	Enhancement effects of a hepatocyte receptor-â€œspecific MR contrast agent in an animal model. Journal of Magnetic Resonance Imaging, 1994, 4, 325-330.	1.9	11
85	â€œKeyholeâ€œ method for accelerating imaging of contrast agent uptake. Journal of Magnetic Resonance Imaging, 1993, 3, 671-675.	1.9	561
86	MR imaging of silicone gel-â€œfilled breast implants in vivo with a method that visualizes silicone selectively. Journal of Magnetic Resonance Imaging, 1993, 3, 713-717.	1.9	16
87	Hepatic iron overload: Diagnosis and quantification by noninvasive imaging. Gastrointestinal Radiology, 1990, 15, 27-31.	0.4	57