

Rendon C Nelson

List of Publications by Year in descending order

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87
papers

7,354
citations

76196

40
h-index

58464

82
g-index

89
all docs

89
docs citations

89
times ranked

7679
citing authors

#	ARTICLE	IF	CITATIONS
1	Liver biopsy. <i>Hepatology</i> , 2009, 49, 1017-1044.	3.6	1,696
2	“Keyhole” method for accelerating imaging of contrast agent uptake. <i>Journal of Magnetic Resonance Imaging</i> , 1993, 3, 671-675.	1.9	561
3	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
4	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
5	State of the Art: Dual-Energy CT of the Abdomen. <i>Radiology</i> , 2014, 271, 327-342.	3.6	309
6	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
7	Reproducibility of CT Radiomic Features within the Same Patient: Influence of Radiation Dose and CT Reconstruction Settings. <i>Radiology</i> , 2019, 293, 583-591.	3.6	172
8	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
9	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
10	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
11	New iterative reconstruction techniques for cardiovascular computed tomography: How do they work, and what are the advantages and disadvantages?. <i>Journal of Cardiovascular Computed Tomography</i> , 2011, 5, 286-292.	0.7	156
12	Helical CT for Nephrolithiasis and Ureterolithiasis: Comparison of Conventional and Reduced Radiation-Dose Techniques. <i>Radiology</i> , 2003, 229, 575-580.	3.6	151
13	Treatment of Iatrogenic Femoral Arterial Pseudoaneurysms: Comparison of US-guided Thrombin Injection with Compression Repair. <i>Radiology</i> , 2000, 215, 403-408.	3.6	137
14	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
15	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
16	Sonographically Guided Thrombin Injection of Iatrogenic Femoral Pseudoaneurysms. <i>American Journal of Roentgenology</i> , 2001, 177, 309-316.	1.0	122
17	Dual-Energy CT Applications in the Abdomen. <i>American Journal of Roentgenology</i> , 2012, 199, S64-S70.	1.0	121
18	Dual-Energy CT for Characterization of Adrenal Nodules: Initial Experience. <i>American Journal of Roentgenology</i> , 2010, 194, 1479-1483.	1.0	105

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19	ACR Appropriateness Criteria Right Upper Quadrant Pain. Journal of the American College of Radiology, 2014, 11, 316-322.	0.9	98
20	Quantitative Features of Liver Lesions, Lung Nodules, and Renal Stones at Multi-detector Row CT Examinations: Dependency on Radiation Dose and Reconstruction Algorithm. Radiology, 2016, 279, 185-194.	3.6	93
21	Dual Energy Versus Single Energy MDCT: Measurement of Radiation Dose Using Adult Abdominal Imaging Protocols. Academic Radiology, 2009, 16, 1400-1407.	1.3	92
22	Dual-Energy Multidetector CT for the Characterization of Incidental Adrenal Nodules: Diagnostic Performance of Contrast-enhanced Material Density Analysis. Radiology, 2015, 274, 445-454.	3.6	77
23	Decreasing the Radiation Dose for Renal Stone CT. American Journal of Roentgenology, 2002, 178, 1058-1062.	1.0	75
24	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. Radiology, 2017, 284, 737-747.	3.6	69
25	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
26	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. Radiology, 2016, 279, 269-277.	3.6	62
27	In Vivo Guidance and Assessment of Liver Radio-Frequency Ablation with Acoustic Radiation Force Elastography. Ultrasound in Medicine and Biology, 2008, 34, 1590-1603.	0.7	61
28	The Effect of Contrast Material on Radiation Dose at CT: Part II. A Systematic Evaluation across 58 Patient Models. Radiology, 2017, 283, 749-757.	3.6	59
29	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
30	Dual-Energy MDCT for Imaging the Renal Mass. American Journal of Roentgenology, 2015, 204, W640-W647.	1.0	58
31	Hepatic iron overload: Diagnosis and quantification by noninvasive imaging. Gastrointestinal Radiology, 1990, 15, 27-31.	0.4	57
32	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
33	Focal Cystic High-Attenuation Lesions: Characterization in Renal Phantom by Using Photon-counting Spectral CT—Improved Differentiation of Lesion Composition. Radiology, 2010, 254, 270-276.	3.6	55
34	Image-guided percutaneous drainage: a review. Abdominal Radiology, 2016, 41, 629-636.	1.0	55
35	Impact of CT in elderly patients presenting to the emergency department with acute abdominal pain. Abdominal Imaging, 2015, 40, 2877-2882.	2.0	50
36	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

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37	Virtual Unenhanced Images at Dual-Energy CT: Influence on Renal Lesion Characterization. <i>Radiology</i> , 2019, 291, 381-390.	3.6	49
38	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
39	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?. <i>American Journal of Roentgenology</i> , 2019, 212, 554-561.	1.0	44
40	Concordance of hypervascular liver nodule characterization between the organ procurement and transplant network and liver imaging reporting and data system classifications. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 305-314.	1.9	42
41	Dual energy MDCT assessment of renal lesions: an overview. <i>European Radiology</i> , 2014, 24, 353-362.	2.3	41
42	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
43	Body CT: Technical Advances for Improving Safety. <i>American Journal of Roentgenology</i> , 2011, 197, 33-41.	1.0	39
44	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
45	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. <i>European Radiology</i> , 2013, 23, 3325-3335.	2.3	32
46	Liver: Single Breath-hold Dynamic Subtraction CT with Multi-â€œDetector Row Helical Technologyâ€œ Feasibility Study. <i>Radiology</i> , 2002, 222, 278-283.	3.6	31
47	Fine-needle aspiration with flow cytometric immunophenotyping for primary diagnosis of intra-abdominal lymphomas. , 1999, 21, 98-104.		29
48	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. <i>European Radiology</i> , 2019, 29, 2069-2078.	2.3	29
49	Assessment of Vascular Contrast and Depiction of Stenoses in Abdominopelvic and Lower Extremity Vasculature. <i>Academic Radiology</i> , 2012, 19, 1149-1157.	1.3	26
50	Renal Lesion Characterization with Spectral CT: Determining the Optimal Energy for Virtual Monoenergetic Reconstruction. <i>Radiology</i> , 2018, 287, 874-883.	3.6	26
51	Multislice Helical CT to Facilitate Combined CT of the Neck, Chest, Abdomen, and Pelvis in Children. <i>American Journal of Roentgenology</i> , 2000, 174, 1620-1622.	1.0	24
52	MR of focal liver lesions: Comparison of breath-hold and non-breath-hold hybrid rare and conventional spin-echo T2-weighted pulse sequences. <i>Journal of Magnetic Resonance Imaging</i> , 1996, 6, 596-602.	1.9	23
53	Three-Dimensional CT of the Genitourinary Tract. <i>Journal of Endourology</i> , 2001, 15, 37-46.	1.1	23
54	Optimal Timing and Diagnostic Adequacy of Hepatocyte Phase Imaging with Gadoxetate-Enhanced Liver MRI. <i>Academic Radiology</i> , 2014, 21, 726-732.	1.3	23

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55	Splenic contraction: a new member of the hypovolemic shock complex. <i>Abdominal Radiology</i> , 2018, 43, 2375-2383.	1.0	23
56	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
57	Negative Biopsy of Focal Hepatic Lesions: Decision Tree Model for Patient Management. <i>American Journal of Roentgenology</i> , 2019, 212, 677-685.	1.0	18
58	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
59	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
60	MR imaging of silicone gel-filled breast implants in vivo with a method that visualizes silicone selectively. <i>Journal of Magnetic Resonance Imaging</i> , 1993, 3, 713-717.	1.9	16
61	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
62	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. <i>American Journal of Roentgenology</i> , 2015, 205, 834-839.	1.0	13
63	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
64	Enhancement effects of a hepatocyte receptor-specific MR contrast agent in an animal model. <i>Journal of Magnetic Resonance Imaging</i> , 1994, 4, 325-330.	1.9	11
65	Radiation Issues with Multidetector Row Helical CT. <i>Critical Reviews in Diagnostic Imaging</i> , 2003, 44, 95-117.	0.1	9
66	Appendicitis, Body Mass Index, and CT: Is CT More Valuable for Obese Patients than Thin Patients?. <i>American Surgeon</i> , 2011, 77, 471-475.	0.4	9
67	How the radiologist can add value in the evaluation of the pre- and post-surgical pancreas. <i>Abdominal Imaging</i> , 2015, 40, 2932-2944.	2.0	9
68	High-Pitch Wide-Coverage Fast-Kilovoltage-Switching Dual-Energy CT: Impact of Pitch on Noise, Spatial Resolution, and Iodine Quantification in a Phantom Study. <i>American Journal of Roentgenology</i> , 2019, 212, W64-W72.	1.0	8
69	Dual-Energy CT Vital Iodine Tumor Burden for Response Assessment in Patients With Metastatic CIST Undergoing TKI Therapy: Comparison With Standard CT and FDG PET/CT Criteria. <i>American Journal of Roentgenology</i> , 2022, 218, 659-669.	1.0	8
70	Current Opinions on Medical Radiation: A Survey of Oncologists Regarding Radiation Exposure and Dose Reduction in Oncology Patients. <i>Journal of the American College of Radiology</i> , 2014, 11, 490-495.	0.9	7
71	Liver Imaging with Multidetector Helical Computed Tomography. <i>Journal of Computer Assisted Tomography</i> , 2003, 27, S9-S16.	0.5	6
72	Evaluation of Intraindividual Contrast Enhancement Variability for Determining the Maximum Achievable Consistency in CT. <i>American Journal of Roentgenology</i> , 2020, 214, 18-23.	1.0	6

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73	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
74	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
75	Hepatic Heterogeneity and Attenuation on Contrast-Enhanced CT in Patients With the Hypovolemic Shock Complex: Objective Classification Using a Contemporary Cohort. <i>Current Problems in Diagnostic Radiology</i> , 2019, 48, 224-228.	0.6	3
76	Variability of quantitative measurements of metastatic liver lesions: a multi-radiation-dose-level and multi-reader comparison. <i>Abdominal Radiology</i> , 2021, 46, 226-236.	1.0	3
77	Radiation Issues with Multidetector Row Helical CT. <i>Critical Reviews in Diagnostic Imaging</i> , 2003, 44, 95-117.	0.1	3
78	Renal excretion of gadolinium mimicking calculi on non-contrast CT. <i>Pediatric Radiology</i> , 1998, 28, 417-417.	1.1	2
79	Can Realistic Liver Tissue Surrogates Accurately Quantify the Impact of Reduced-kV Imaging on Attenuation and Contrast of Parenchyma and Lesions?. <i>Academic Radiology</i> , 2019, 26, 640-650.	1.3	2
80	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. <i>Clinical Imaging</i> , 2020, 61, 36-42.	0.8	2
81	HSP90-Specific nIR Probe Identifies Aggressive Prostate Cancers: Translation from Preclinical Models to a Human Phase I Study. <i>Molecular Cancer Therapeutics</i> , 2022, 21, 217-226.	1.9	2
82	Technique and role of ultrasound-guided aspiration of theca lutein cysts. <i>Emergency Radiology</i> , 1999, 6, 110-112.	1.0	1
83	Comparison of clinical efficacy, subjective user experience, and safety for two different core biopsy needles, the Achieve® and Marquee®. <i>Abdominal Radiology</i> , 2022, 47, 2632-2639.	1.0	1
84	Reply:. <i>Hepatology</i> , 2009, 50, 655-656.	3.6	0
85	Adrenal Glands. , 2014, , 69-81.		0
86	Can procedure time for paracentesis be optimized based on bottle selection?. <i>Abdominal Radiology</i> , 2021, 46, 4062-4067.	1.0	0
87	IMAGING OF THE PANCREAS. , 2013, , 417-434.		0