

Stephan W Anderson

List of Publications by Year in descending order

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97
papers

3,314
citations

109137

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168136

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101
all docs

101
docs citations

101
times ranked

3328
citing authors

#	ARTICLE	IF	CITATIONS
1	Auxeticsâ€Inspired Tunable Metamaterials for Magnetic Resonance Imaging (Adv. Mater. 6/2022). Advanced Materials, 2022, 34, .	11.1	1
2	Quantification of bone marrow edema using dual-energy CT at fracture sites in trauma. Emergency Radiology, 2022, , 1.	1.0	4
3	Liver trauma: hepatic vascular injury on computed tomography as a predictor of patient outcome. European Radiology, 2021, 31, 3375-3382.	2.3	4
4	Machine learning combining CT findings and clinical parameters improves prediction of length of stay and ICU admission in torso trauma. European Radiology, 2021, 31, 5434-5441.	2.3	13
5	Clinical and laboratory parameters in blunt pelvic trauma not associated with subsequent positive conventional angiography in patients with positive CTA. Emergency Radiology, 2021, 28, 557-563.	1.0	1
6	Acute cholecystitis: diagnostic value of dual-energy CT-derived iodine map and low-keV virtual monoenergetic images. Abdominal Radiology, 2021, 46, 5125-5133.	1.0	7
7	Fat Fraction Measurements Using a Three-Material Decomposition Dual-Energy CT Technique Accounting for Bone Minerals: Evaluation in a Bone Marrow Phantom Using MRI as Reference. American Journal of Roentgenology, 2021, , .	1.0	2
8	An Automated Deep Learning Method for Tile AO/OTA Pelvic Fracture Severity Grading from Trauma whole-Body CT. Journal of Digital Imaging, 2021, 34, 53-65.	1.6	14
9	Time to conventional angiography in gastrointestinal bleeding: CT angiography compared to tagged RBC scan. Abdominal Radiology, 2020, 45, 307-311.	1.0	5
10	Nonhomogeneous Gadolinium Retention in the Cerebral Cortex after Intravenous Administration of Gadolinium-based Contrast Agent in Rats and Humans. Radiology, 2020, 294, 377-385.	3.6	19
11	Accuracy of Dual-Energy CT Virtual Unenhanced and Material-Specific Images: A Phantom Study. American Journal of Roentgenology, 2020, 215, 1146-1154.	1.0	30
12	CTA measurements of acute lower gastrointestinal bleeding size predict subsequent positive catheter angiography. Abdominal Radiology, 2020, 45, 615-622.	1.0	5
13	Intelligent Metamaterials Based on Nonlinearity for Magnetic Resonance Imaging. Advanced Materials, 2019, 31, e1905461.	11.1	41
14	Metamaterials: Diatom Frustuleâ€Inspired Metamaterial Absorbers: The Effect of Hierarchical Pattern Arrays (Adv. Funct. Mater. 22/2019). Advanced Functional Materials, 2019, 29, 1970151.	7.8	3
15	Diatom Frustuleâ€Inspired Metamaterial Absorbers: The Effect of Hierarchical Pattern Arrays. Advanced Functional Materials, 2019, 29, 1809029.	7.8	14
16	Ultra-open acoustic metamaterial silencer based on Fano-like interference. Physical Review B, 2019, 99, .	1.1	139
17	Quantification of Degree of Liver Fibrosis Using Fibrosis Area Fraction Based on Statistical Chi-Square Analysis of Heterogeneity of Liver Tissue Texture on Routine Ultrasound Images. Academic Radiology, 2019, 26, 1001-1007.	1.3	8
18	Horn-like space-coiling metamaterials toward simultaneous phase and amplitude modulation. Nature Communications, 2018, 9, 1349.	5.8	105

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19	Acute Radiologic Manifestations of America's Opioid Epidemic. Radiographics, 2018, 38, 109-123.	1.4	17
20	Advances in Acute Pancreatic Imaging. , 2018, , 77-97.		1
21	Diffusion-weighted imaging of the pericholecystic hepatic parenchyma for distinguishing acute and chronic cholecystitis. Emergency Radiology, 2018, 25, 7-11.	1.0	4
22	Surgical management in acute diverticulitis and its association with multi-detector CT, modified Hinchey classification, and clinical parameters. Abdominal Radiology, 2018, 43, 2060-2065.	1.0	21
23	Silica Nanowire Growth on Coscinodiscus Species Diatom Frustules via Vapor-Liquid-Solid Process. Small, 2018, 14, 1801822.	5.2	8
24	Application of texture analysis on parametric T ₁ and T ₂ maps for detection of hepatic fibrosis. Journal of Magnetic Resonance Imaging, 2017, 45, 250-259.	1.9	25
25	Extremity CTA for penetrating trauma: 10-year experience using a 64-detector row CT scanner. Emergency Radiology, 2017, 24, 223-232.	1.0	26
26	Multidetector CT of Surgically Proven Blunt Bowel and Mesenteric Injury. Radiographics, 2017, 37, 613-625.	1.4	45
27	Texture analysis as a radiomic marker for differentiating renal tumors. Abdominal Radiology, 2017, 42, 2470-2478.	1.0	127
28	Quantitative Assessment of Variation in CT Parameters on Texture Features: Pilot Study Using a Nonanatomic Phantom. American Journal of Neuroradiology, 2017, 38, 981-985.	1.2	46
29	Utility of MDCT findings in predicting patient management outcomes in renal trauma. Emergency Radiology, 2017, 24, 263-272.	1.0	21
30	Principles of Quantitative MR Imaging with Illustrated Review of Applicable Modular Pulse Diagrams. Radiographics, 2017, 37, 2083-2105.	1.4	14
31	Enhanced Laves textures: A potential MRI surrogate marker of hepatic fibrosis in a murine model. Magnetic Resonance Imaging, 2017, 37, 33-40.	1.0	8
32	Biliary and pancreatic ductal dilation in patients on methadone maintenance therapy. Abdominal Radiology, 2017, 42, 884-889.	1.0	4
33	Effect of an Institutional Triage Algorithm on the Use of Multidetector CT for Patients with Blunt Abdominopelvic Trauma over an 8-year Period. Radiology, 2017, 282, 84-91.	3.6	9
34	Facile assembling method for coscinodiscus sp. diatom frustule monolayers towards controlled orientations. , 2017, , .		0
35	Diagnosing acute appendicitis using a nonoral contrast CT protocol in patients with a BMI of less than 25. Emergency Radiology, 2016, 23, 455-462.	1.0	14
36	Normal saline as a natural intravascular contrast agent for dynamic perfusion-weighted MRI of the brain: Proof of concept at 1.5T. Journal of Magnetic Resonance Imaging, 2016, 44, 1580-1591.	1.9	4

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37	Large-area diatom frustule self-assembled monolayers: Formation and manipulation. , 2016, , .		1
38	CT of Major Vascular Injury in Blunt Abdominopelvic Trauma. Radiographics, 2016, 36, 872-890.	1.4	30
39	Damage control surgery: use of diagnostic CT after life-saving laparotomy. Emergency Radiology, 2016, 23, 483-495.	1.0	14
40	Towards uniformly oriented diatom frustule monolayers: Experimental and theoretical analyses. Microsystems and Nanoengineering, 2016, 2, 16064.	3.4	14
41	Using texture analyses of contrast enhanced CT to assess hepatic fibrosis. European Journal of Radiology, 2016, 85, 511-517.	1.2	89
42	CT imaging signs of surgically proven bowel trauma. Emergency Radiology, 2016, 23, 213-219.	1.0	26
43	Utility of texture analysis for quantifying hepatic fibrosis on proton density MRI. Journal of Magnetic Resonance Imaging, 2015, 42, 1259-1265.	1.9	38
44	Evaluation of Acute Abdominal Pain in the Emergency Setting Using Computed Tomography Without Oral Contrast in Patients With Body Mass Index Greater Than 25. Journal of Computer Assisted Tomography, 2015, 39, 681-686.	0.5	24
45	Evaluation of a sequential multi-modality imaging algorithm for the diagnosis of acute appendicitis in the pregnant female. Emergency Radiology, 2015, 22, 125-132.	1.0	39
46	Active Hemorrhage and Vascular Injuries in Splenic Trauma: Utility of the Arterial Phase in Multidetector CT. Radiology, 2014, 270, 99-106.	3.6	87
47	Biocompatible, micro- and nano-fabricated magnetic cylinders for potential use as contrast agents for magnetic resonance imaging. Sensors and Actuators B: Chemical, 2014, 196, 670-675.	4.0	12
48	Characterizing non-Gaussian, high b-value diffusion in liver fibrosis: Stretched exponential and diffusional kurtosis modeling. Journal of Magnetic Resonance Imaging, 2014, 39, 827-834.	1.9	58
49	Quantifying liver fibrosis through the application of texture analysis to diffusion weighted imaging. Magnetic Resonance Imaging, 2014, 32, 84-90.	1.0	59
50	Improved T_2 mapping accuracy with dual-echo turbo spin echo: Effect of phase encoding profile orders. Magnetic Resonance in Medicine, 2013, 69, 137-143.	1.9	11
51	Multixponential T_2 analyses in a murine model of hepatic fibrosis at 11.7 T MRI. NMR in Biomedicine, 2013, 26, 83-90.	1.6	5
52	Blunt pancreatic trauma: evaluation with MDCT technology. Emergency Radiology, 2013, 20, 259-266.	1.0	29
53	Ileal Pouch-Anal Anastomosis Surgery: Anatomy, Postoperative Complications, and Image-Guided Intervention. Seminars in Ultrasound, CT and MRI, 2013, 34, 299-310.	0.7	3
54	Microfabricated iron oxide particles for tunable, multispectral magnetic resonance imaging. Materials Letters, 2013, 110, 122-126.	1.3	6

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55	Penetrating Wounds to the Torso: Evaluation with Triple-Contrast Multidetector CT. Radiographics, 2013, 33, 341-359.	1.4	44
56	Effect of Testosterone Administration on Liver Fat in Older Men With Mobility Limitation: Results From a Randomized Controlled Trial. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 954-959.	1.7	22
57	Fabrication and characterization of composite hydrogel particles with x-ray attenuating media. , 2013, , .		0
58	Biocompatible microfabricated magnetic cylinders as contrast agents for magnetic resonance imaging. , 2013, , .		0
59	Multidetector CT of Blunt Abdominal Trauma. Radiology, 2012, 265, 678-693.	3.6	223
60	CT Imaging of Blunt Traumatic Bowel and Mesenteric Injuries. Radiologic Clinics of North America, 2012, 50, 123-136.	0.9	54
61	Multi-Detector Row CT of Acute Non-traumatic Abdominal Pain: Contrast and Protocol Considerations. Radiologic Clinics of North America, 2012, 50, 137-147.	0.9	12
62	Quantifying hepatic fibrosis using a biexponential model of diffusion weighted imaging in ex vivo liver specimens. Magnetic Resonance Imaging, 2012, 30, 1475-1482.	1.0	12
63	Effect of disease progression on liver apparent diffusion coefficient and T ₂ values in a murine model of hepatic fibrosis at 11.7 Tesla MRI. Journal of Magnetic Resonance Imaging, 2012, 35, 140-146.	1.9	31
64	Fluid Tagging for CT Colonography. Journal of Computer Assisted Tomography, 2011, 35, 91-95.	0.5	29
65	Effect of disease progression on liver apparent diffusion coefficient values in a murine model of NASH at 11.7 tesla MRI. Journal of Magnetic Resonance Imaging, 2011, 33, 882-888.	1.9	33
66	Integration of 64-Detector Lower Extremity CT Angiography into Whole-Body Trauma Imaging: Feasibility and Early Experience. Radiology, 2011, 261, 787-795.	3.6	48
67	Quantitative MR Imaging: Physical Principles and Sequence Design in Abdominal Imaging. Radiographics, 2011, 31, 867-880.	1.4	48
68	Pelvic CT angiography: application to blunt trauma using 64MDCT. Abdominal Imaging, 2010, 35, 280-286.	2.0	9
69	Imaging of blunt pancreatic trauma. Emergency Radiology, 2010, 17, 13-19.	1.0	62
70	CT of blunt abdominal and pelvic vascular injury. Emergency Radiology, 2010, 17, 21-29.	1.0	23
71	Pelvic CT angiography: application to blunt trauma using 64MDCT. Emergency Radiology, 2010, 17, 131-137.	1.0	26
72	Influence of body habitus and use of oral contrast on reader confidence in patients with suspected acute appendicitis using 64 MDCT. Emergency Radiology, 2010, 17, 445-453.	1.0	23

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73	Ileal Pouchâ€“Anal Anastomosis Surgery: Imaging and Intervention for Post-operative Complications. Radiographics, 2010, 30, 221-233.	1.4	52
74	CT Angiography in Trauma. Radiologic Clinics of North America, 2010, 48, 423-438.	0.9	72
75	Benign Hepatic Tumors and Iatrogenic Pseudotumors. Radiographics, 2009, 29, 211-229.	1.4	75
76	Use of 64-Row Multidetector CT Angiography in Blunt and Penetrating Trauma of the Upper and Lower Extremities. Radiographics, 2009, 29, 863-876.	1.4	48
77	Abdominal 64-MDCT for Suspected Appendicitis: The Use of Oral and IV Contrast Material Versus IV Contrast Material Only. American Journal of Roentgenology, 2009, 193, 1282-1288.	1.0	101
78	Detection of Vascular Injuries in Patients with Blunt Pelvic Trauma by Using 64-Channel Multidetector CT. Radiographics, 2009, 29, 151-164.	1.4	52
79	Active extravasation of the abdomen and pelvis in trauma using 64MDCT. Emergency Radiology, 2009, 16, 375-382.	1.0	24
80	Extremity CT angiography: application to trauma using 64-MDCT. Emergency Radiology, 2009, 16, 425-432.	1.0	17
81	Imaging colorectal trauma using 64-MDCT technology. Emergency Radiology, 2009, 16, 433-440.	1.0	19
82	Pancreatic duct evaluation: accuracy of portal venous phase 64 MDCT. Abdominal Imaging, 2009, 34, 55-63.	2.0	35
83	Anorectal Trauma: The Use of Computed Tomography Scan in Diagnosis. Seminars in Ultrasound, CT and MRI, 2008, 29, 472-482.	0.7	25
84	MDCT Evaluation of Blunt Abdominal Trauma: Clinical Significance of Free Intraperitoneal Fluid in Males with Absence of Identifiable Injury. American Journal of Roentgenology, 2008, 191, 1821-1826.	1.0	55
85	Upper Extremity CT Angiography in Penetrating Trauma: Use of 64-Section Multidetector CT. Radiology, 2008, 249, 1064-1073.	3.6	35
86	Managing an Acute Adverse Event in a Radiology Department. Radiographics, 2008, 28, 1237-1250.	1.4	37
87	Detection of Biliary Duct Narrowing and Choledocholithiasis: Accuracy of Portal Venous Phase Multidetector CT. Radiology, 2008, 247, 418-427.	3.6	66
88	Blunt Trauma: Feasibility and Clinical Utility of Pelvic CT Angiography Performed with 64â€“Detector Row CT. Radiology, 2008, 246, 410-419.	3.6	96
89	Blunt Splenic Trauma: Delayed-Phase CT for Differentiation of Active Hemorrhage from Contained Vascular Injury in Patients. Radiology, 2007, 243, 88-95.	3.6	107
90	Blunt Abdominal Trauma: Current Imaging Techniques and CT Findings in Patients with Solid Organ, Bowel, and Mesenteric Injury. Seminars in Ultrasound, CT and MRI, 2007, 28, 115-129.	0.7	64

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91	64-Detector Row Computed Tomography: An Improved Tool for Evaluating the Biliary and Pancreatic Ducts?. <i>Current Problems in Diagnostic Radiology</i> , 2007, 36, 258-271.	0.6	15
92	Spontaneous hemoperitoneum: a bloody mess. <i>Emergency Radiology</i> , 2007, 14, 65-75.	1.0	69
93	64 MDCT in multiple trauma patients: imaging manifestations and clinical implications of active extravasation. <i>Emergency Radiology</i> , 2007, 14, 151-159.	1.0	45
94	CT Angiography of Extremity Trauma. <i>Techniques in Vascular and Interventional Radiology</i> , 2006, 9, 156-166.	0.4	31
95	A Positional Maneuver to Augment Conventional Cholescintigraphy in the Evaluation of Acute Acalculous Cholecystitis. <i>Clinical Nuclear Medicine</i> , 2006, 31, 409-411.	0.7	0
96	Sixty-Four Multi-Detector Row Computed Tomography in Multitrauma Patient Imaging: Early Experience. <i>Current Problems in Diagnostic Radiology</i> , 2006, 35, 188-198.	0.6	48
97	Accuracy of MDCT in the Diagnosis of Choledocholithiasis. <i>American Journal of Roentgenology</i> , 2006, 187, 174-180.	1.0	73