

Matthias Hammon

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

1,183
citations

17
h-index

31
g-index

72
ext. papers

1,473
ext. citations

4.4
avg, IF

3.92
L-index

#	Paper	IF	Citations
70	²³ Na magnetic resonance imaging-determined tissue sodium in healthy subjects and hypertensive patients. <i>Hypertension</i> , 2013 , 61, 635-40	8.5	243
69	Magnetic resonance-determined sodium removal from tissue stores in hemodialysis patients. <i>Kidney International</i> , 2015 , 87, 434-41	9.9	132
68	Elevated tissue sodium deposition in patients with type 2 diabetes on hemodialysis detected by Na magnetic resonance imaging. <i>Kidney International</i> , 2018 , 93, 1191-1197	9.9	52
67	²³ Na Magnetic Resonance Imaging of the Lower Leg of Acute Heart Failure Patients during Diuretic Treatment. <i>PLoS ONE</i> , 2015 , 10, e0141336	3.7	49
66	Interobserver and intermodality agreement of standardized algorithms for non-invasive diagnosis of hepatocellular carcinoma in high-risk patients: CEUS-LI-RADS versus MRI-LI-RADS. <i>European Radiology</i> , 2018 , 28, 4254-4264	8	40
65	Lymph node detection and segmentation in chest CT data using discriminative learning and a spatial prior. <i>Medical Image Analysis</i> , 2013 , 17, 254-70	15.4	40
64	Endothelial progenitor cells are integrated in newly formed capillaries and alter adjacent fibrovascular tissue after subcutaneous implantation in a fibrin matrix. <i>Journal of Cellular and Molecular Medicine</i> , 2011 , 15, 2452-61	5.6	34
63	Third-generation dual-source 70-kVp chest CT angiography with advanced iterative reconstruction in young children: image quality and radiation dose reduction. <i>Pediatric Radiology</i> , 2016 , 46, 462-72	2.8	33
62	Dual-Energy Computed Tomography Angiography of the Head and Neck With Single-Source Computed Tomography: A New Technical (Split Filter) Approach for Bone Removal. <i>Investigative Radiology</i> , 2016 , 51, 618-23	10.1	31
61	Automatic detection of lytic and blastic thoracolumbar spine metastases on computed tomography. <i>European Radiology</i> , 2013 , 23, 1862-70	8	29
60	Seeing the sodium in a patient with hypernatremia. <i>Kidney International</i> , 2012 , 82, 1343-4	9.9	23
59	T17b murine embryonal endothelial progenitor cells can be induced towards both proliferation and differentiation in a fibrin matrix. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 926-35	5.6	23
58	Na ⁺ deposition in the fibrotic skin of systemic sclerosis patients detected by ²³ Na-magnetic resonance imaging. <i>Rheumatology</i> , 2017 , 56, 556-560	3.9	22
57	Role of guanylate binding protein-1 in vascular defects associated with chronic inflammatory diseases. <i>Journal of Cellular and Molecular Medicine</i> , 2011 , 15, 1582-92	5.6	21
56	A retrieval-based computer-aided diagnosis system for the characterization of liver lesions in CT scans. <i>Academic Radiology</i> , 2013 , 20, 1526-34	4.3	19
55	A probabilistic model for automatic segmentation of the esophagus in 3-D CT scans. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 1252-64	11.7	19
54	Advanced Modeled Iterative Reconstruction (ADMIRE) Facilitates Radiation Dose Reduction in Abdominal CT. <i>Academic Radiology</i> , 2018 , 25, 1277-1284	4.3	17

53	Model-based pancreas segmentation in portal venous phase contrast-enhanced CT images. <i>Journal of Digital Imaging</i> , 2013 , 26, 1082-90	5.3	17
52	3 Tesla Na Magnetic Resonance Imaging During Acute Kidney Injury. <i>Academic Radiology</i> , 2017 , 24, 1086-1093	4.9	16
51	Performance of Photon-Counting Breast Computed Tomography, Digital Mammography, and Digital Breast Tomosynthesis in Evaluating Breast Specimens. <i>Academic Radiology</i> , 2017 , 24, 184-190	4.3	16
50	Evaluation of Rib Fractures on a Single-in-plane Image Reformation of the Rib Cage in CT Examinations. <i>Academic Radiology</i> , 2017 , 24, 153-159	4.3	15
49	Reproducibility of Kidney Perfusion Measurements With Arterial Spin Labeling at 1.5 Tesla MRI Combined With Semiautomatic Segmentation for Differential Cortical and Medullary Assessment. <i>Medicine (United States)</i> , 2016 , 95, e3083	1.8	14
48	Can the documented patient briefing be carried out with an iPad app?. <i>Journal of Digital Imaging</i> , 2013 , 26, 383-92	5.3	13
47	Implementation of machine learning into clinical breast MRI: Potential for objective and accurate decision-making in suspicious breast masses. <i>PLoS ONE</i> , 2020 , 15, e0228446	3.7	13
46	3 Tesla (23)Na magnetic resonance imaging during aerobic and anaerobic exercise. <i>Academic Radiology</i> , 2015 , 22, 1181-90	4.3	12
45	Automatic pancreas segmentation in contrast enhanced CT data using learned spatial anatomy and texture descriptors 2011 ,		12
44	Impact of renal denervation on tissue Na content in treatment-resistant hypertension. <i>Clinical Research in Cardiology</i> , 2018 , 107, 42-48	6.1	11
43	iPad-based patient briefing for radiological examinations-a clinical trial. <i>Journal of Digital Imaging</i> , 2014 , 27, 479-85	5.3	10
42	Computer-aided evaluation of low-dose and low-contrast agent third-generation dual-source CT angiography prior to transcatheter aortic valve implantation (TAVI). <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017 , 12, 795-802	3.9	10
41	Guanylate-binding protein 1 expression from embryonal endothelial progenitor cells reduces blood vessel density and cellular apoptosis in an axially vascularised tissue-engineered construct. <i>BMC Biotechnology</i> , 2012 , 12, 94	3.5	10
40	A mixed waveform protocol for reduction of the cardiac motion artifact in black-blood diffusion-weighted imaging of the liver. <i>Magnetic Resonance Imaging</i> , 2020 , 67, 59-68	3.3	9
39	Combined semantic and similarity search in medical image databases 2011 ,		9
38	Practicability of hygienic wrapping of touchscreen operated mobile devices in a clinical setting. <i>PLoS ONE</i> , 2014 , 9, e106445	3.7	9
37	Development and Evaluation of a Semi-automated Segmentation Tool and a Modified Ellipsoid Formula for Volumetric Analysis of the Kidney in Non-contrast T2-Weighted MR Images. <i>Journal of Digital Imaging</i> , 2017 , 30, 244-254	5.3	8
36	Vascularization of the Arteriovenous Loop in a Rat Isolation Chamber Model-Quantification of Hypoxia and Evaluation of Its Effects. <i>Tissue Engineering - Part A</i> , 2018 , 24, 719-728	3.9	8

35	Mobile Image Interpretation: Diagnostic Performance of CT Exams Displayed on a Tablet Computer in Detecting Abdominopelvic Hemorrhage. <i>Journal of Digital Imaging</i> , 2016 , 29, 183-8	5.3	8
34	Accuracy and Specific Value of Cardiovascular 3D-Models in Pediatric CT-Angiography. <i>Pediatric Cardiology</i> , 2017 , 38, 1540-1547	2.1	8
33	Full Field Digital Mammography (FFDM) versus CMOS Technology, Specimen Radiography System (SRS) and Tomosynthesis (DBT) - Which System Can Optimise Surgical Therapy?. <i>Geburtshilfe Und Frauenheilkunde</i> , 2013 , 73, 422-427	2	8
32	A web based cross-platform application for teleconsultation in radiology. <i>Journal of Telemedicine and Telecare</i> , 2015 , 21, 355-63	6.8	7
31	A Discriminative Distance LearningBased CBIR Framework for Characterization of Indeterminate Liver Lesions. <i>Lecture Notes in Computer Science</i> , 2012 , 92-104	0.9	7
30	Quantitative assessment of muscle injury by (23)Na magnetic resonance imaging. <i>SpringerPlus</i> , 2016 , 5, 661		7
29	Semiautomatic segmentation of the kidney in magnetic resonance images using unimodal thresholding. <i>BMC Research Notes</i> , 2016 , 9, 489	2.3	7
28	Evaluation of ventricular septal defects using high pitch computed tomography angiography of the chest in children with complex congenital heart defects below one year of age. <i>Journal of Cardiovascular Computed Tomography</i> , 2019 , 13, 226-233	2.8	6
27	Dose reduction potential of iterative reconstruction algorithms in neck CTA-a simulation study. <i>Dentomaxillofacial Radiology</i> , 2016 , 45, 20160228	3.9	6
26	Automated Semi-Quantitative Analysis of Breast MRI: Potential Imaging Biomarker for the Prediction of Tissue Response to Neoadjuvant Chemotherapy. <i>Breast Care</i> , 2017 , 12, 231-236	2.4	6
25	Semantic representation of reported measurements in radiology. <i>BMC Medical Informatics and Decision Making</i> , 2016 , 16, 5	3.6	6
24	Does higher field strength translate into better diagnostic accuracy? A prospective comparison of breast MRI at 3 and 1.5 Tesla. <i>European Journal of Radiology</i> , 2019 , 114, 51-56	4.7	5
23	A new approach of three-dimensional guidance in paediatric cath lab: segmented and tessellated heart models for cardiovascular interventions in CHD. <i>Cardiology in the Young</i> , 2018 , 28, 661-667	1	5
22	Osteoblastic lesion screening with an advanced post-processing package enabling in-plane rib reading in CT-images. <i>BMC Medical Imaging</i> , 2016 , 16, 39	2.9	5
21	Effect of Compression Garments on the Development of Edema and Soreness in Delayed-Onset Muscle Soreness (DOMS). <i>Journal of Sports Science and Medicine</i> , 2018 , 17, 392-401	2.7	5
20	The Clinical Data Intelligence Project. <i>Informatik-Spektrum</i> , 2016 , 39, 290-300	0.3	5
19	Fine needle aspiration cytology of lymph nodes in breast cancer follow-up is a feasible alternative to watchful waiting and to histology. <i>BMC Women's Health</i> , 2015 , 15, 114	2.9	4
18	Pediatric cardiac MRI: automated left-ventricular volumes and function analysis and effects of manual adjustments. <i>Pediatric Radiology</i> , 2015 , 45, 651-7	2.8	3

17	Virtual Computed Tomography Colonography: Evaluation of 2D and Virtual 3D Image Quality of Sub-mSv Examinations Enabled by Third-generation Dual Source Scanner Featuring Tin Filtering. <i>Academic Radiology</i> , 2018 , 25, 1046-1051	4.3	3
16	Evaluation of novice reader diagnostic performance in coronary CT angiography using an advanced cardiac software package. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2014 , 9, 609-613	3.8	3
15	Automatic shape based deformable registration of multiphase contrast enhanced liver CT volumes 2011 ,		3
14	Image Quality and Detection of Small Focal Liver Lesions in Diffusion-Weighted Imaging: Comparison of Navigator Tracking and Free-Breathing Acquisition. <i>Investigative Radiology</i> , 2021 , 56, 579-590	10.1	3
13	Dual-source computed tomography of the lung with spectral shaping and advanced iterative reconstruction: potential for maximum radiation dose reduction. <i>Pediatric Radiology</i> , 2020 , 50, 1240-1248	2.8	2
12	Three-dimensional mapping of the arteriovenous loop model using two-dimensional histological methods. <i>Microscopy Research and Technique</i> , 2016 , 79, 899-907	2.8	2
11	Diffuse Encephalopathy Associated with Isolated Cerebral Langerhans Cell Histiocytosis. <i>Pediatric Neurology</i> , 2016 , 62, 62-5	2.9	2
10	MyCases-a portable application for radiologic case collections. <i>Journal of Digital Imaging</i> , 2014 , 27, 557-623	6.3	2
9	Segmentation Based Features for Lymph Node Detection from 3-D Chest CT. <i>Lecture Notes in Computer Science</i> , 2011 , 91-99	0.9	2
8	Serum miRNAs Support the Indication for MRI-Ultrasound Fusion-Guided Biopsy of the Prostate in Patients with Low-PI-RADS Lesions. <i>Cells</i> , 2021 , 10,	7.9	2
7	Improved visualization of peripherally inserted central catheters on chest radiographs of neonates using fractional multiscale image processing. <i>BMC Medical Imaging</i> , 2019 , 19, 3	2.9	2
6	Potential for Radiation Dose Reduction in Dual-Source Computed Tomography of the Lung in the Pediatric and Adolescent Population Compared to Digital Radiography. <i>Diagnostics</i> , 2021 , 11,	3.8	2
5	Breast MRI texture analysis for prediction of BRCA-associated genetic risk. <i>BMC Medical Imaging</i> , 2020 , 20, 86	2.9	1
4	Fat Necrosis of the Breast Following Folinic Acid Extravasation. <i>Geburtshilfe Und Frauenheilkunde</i> , 2013 , 73, 148-151	2	0
3	Small direct right ventricular cardiac metastasis of osteosarcoma in a 10-year-old boy affirmed by cardiac MRI. <i>Radiology Case Reports</i> , 2020 , 15, 761-764	1	
2	Intelligent Healthcare Applications. <i>Cognitive Technologies</i> , 2014 , 357-370	2	
1	Dynamic CT angiography for therapy evaluation after transarterial chemoembolization of hepatocellular carcinoma. <i>Acta Radiologica</i> , 2020 , 61, 148-155	2	