

# Matthias Hammon

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4280848/matthias-hammon-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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> , <b>2021</b> , 56, 579-590	10.1	3
69	Serum miRNAs Support the Indication for MRI-Ultrasound Fusion-Guided Biopsy of the Prostate in Patients with Low-PI-RADS Lesions. <i>Cells</i> , <b>2021</b> , 10,	7.9	2
68	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> , <b>2021</b> , 11,	3.8	2
67	Dual-source computed tomography of the lung with spectral shaping and advanced iterative reconstruction: potential for maximum radiation dose reduction. <i>Pediatric Radiology</i> , <b>2020</b> , 50, 1240-1248	2.8	2
66	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> , <b>2020</b> , 67, 59-68	3.3	9
65	Small direct right ventricular cardiac metastasis of osteosarcoma in a 10-year-old boy affirmed by cardiac MRI. <i>Radiology Case Reports</i> , <b>2020</b> , 15, 761-764	1	
64	Implementation of machine learning into clinical breast MRI: Potential for objective and accurate decision-making in suspicious breast masses. <i>PLoS ONE</i> , <b>2020</b> , 15, e0228446	3.7	13
63	Breast MRI texture analysis for prediction of BRCA-associated genetic risk. <i>BMC Medical Imaging</i> , <b>2020</b> , 20, 86	2.9	1
62	Dynamic CT angiography for therapy evaluation after transarterial chemoembolization of hepatocellular carcinoma. <i>Acta Radiologica</i> , <b>2020</b> , 61, 148-155	2	
61	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> , <b>2019</b> , 13, 226-233	2.8	6
60	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> , <b>2019</b> , 114, 51-56	4.7	5
59	Improved visualization of peripherally inserted central catheters on chest radiographs of neonates using fractional multiscale image processing. <i>BMC Medical Imaging</i> , <b>2019</b> , 19, 3	2.9	2
58	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> , <b>2018</b> , 28, 4254-4264	8	40
57	Elevated tissue sodium deposition in patients with type 2 diabetes on hemodialysis detected by Na magnetic resonance imaging. <i>Kidney International</i> , <b>2018</b> , 93, 1191-1197	9.9	52
56	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> , <b>2018</b> , 25, 1046-1051	4.3	3
55	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> , <b>2018</b> , 28, 661-667	1	5
54	Advanced Modeled Iterative Reconstruction (ADMIRE) Facilitates Radiation Dose Reduction in Abdominal CT. <i>Academic Radiology</i> , <b>2018</b> , 25, 1277-1284	4.3	17

53	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> , <b>2018</b> , 24, 719-728	3.9	8
52	Impact of renal denervation on tissue Na content in treatment-resistant hypertension. <i>Clinical Research in Cardiology</i> , <b>2018</b> , 107, 42-48	6.1	11
51	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> , <b>2018</b> , 17, 392-401	2.7	5
50	Evaluation of Rib Fractures on a Single-in-plane Image Reformation of the Rib Cage in CT Examinations. <i>Academic Radiology</i> , <b>2017</b> , 24, 153-159	4.3	15
49	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> , <b>2017</b> , 30, 244-254	5.3	8
48	3 Tesla Na Magnetic Resonance Imaging During Acute Kidney Injury. <i>Academic Radiology</i> , <b>2017</b> , 24, 1086-1093	4.93	16
47	Na+ deposition in the fibrotic skin of systemic sclerosis patients detected by <sup>23</sup> Na-magnetic resonance imaging. <i>Rheumatology</i> , <b>2017</b> , 56, 556-560	3.9	22
46	Performance of Photon-Counting Breast Computed Tomography, Digital Mammography, and Digital Breast Tomosynthesis in Evaluating Breast Specimens. <i>Academic Radiology</i> , <b>2017</b> , 24, 184-190	4.3	16
45	Accuracy and Specific Value of Cardiovascular 3D-Models in Pediatric CT-Angiography. <i>Pediatric Cardiology</i> , <b>2017</b> , 38, 1540-1547	2.1	8
44	Automated Semi-Quantitative Analysis of Breast MRI: Potential Imaging Biomarker for the Prediction of Tissue Response to Neoadjuvant Chemotherapy. <i>Breast Care</i> , <b>2017</b> , 12, 231-236	2.4	6
43	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> , <b>2017</b> , 12, 795-802	3.9	10
42	Three-dimensional mapping of the arteriovenous loop model using two-dimensional histological methods. <i>Microscopy Research and Technique</i> , <b>2016</b> , 79, 899-907	2.8	2
41	Dose reduction potential of iterative reconstruction algorithms in neck CTA-a simulation study. <i>Dentomaxillofacial Radiology</i> , <b>2016</b> , 45, 20160228	3.9	6
40	Osteoblastic lesion screening with an advanced post-processing package enabling in-plane rib reading in CT-images. <i>BMC Medical Imaging</i> , <b>2016</b> , 16, 39	2.9	5
39	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> , <b>2016</b> , 46, 462-72	2.8	33
38	Mobile Image Interpretation: Diagnostic Performance of CT Exams Displayed on a Tablet Computer in Detecting Abdominopelvic Hemorrhage. <i>Journal of Digital Imaging</i> , <b>2016</b> , 29, 183-8	5.3	8
37	Diffuse Encephalopathy Associated with Isolated Cerebral Langerhans Cell Histiocytosis. <i>Pediatric Neurology</i> , <b>2016</b> , 62, 62-5	2.9	2
36	Semantic representation of reported measurements in radiology. <i>BMC Medical Informatics and Decision Making</i> , <b>2016</b> , 16, 5	3.6	6

35	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> , <b>2016</b> , 51, 618-23	10.1	31
34	Quantitative assessment of muscle injury by (23)Na magnetic resonance imaging. <i>SpringerPlus</i> , <b>2016</b> , 5, 661		7
33	Semiautomatic segmentation of the kidney in magnetic resonance images using unimodal thresholding. <i>BMC Research Notes</i> , <b>2016</b> , 9, 489	2.3	7
32	The Clinical Data Intelligence Project. <i>Informatik-Spektrum</i> , <b>2016</b> , 39, 290-300	0.3	5
31	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> , <b>2016</b> , 95, e3083	1.8	14
30	Magnetic resonance-determined sodium removal from tissue stores in hemodialysis patients. <i>Kidney International</i> , <b>2015</b> , 87, 434-41	9.9	132
29	3 Tesla (23)Na magnetic resonance imaging during aerobic and anaerobic exercise. <i>Academic Radiology</i> , <b>2015</b> , 22, 1181-90	4.3	12
28	A web based cross-platform application for teleconsultation in radiology. <i>Journal of Telemedicine and Telecare</i> , <b>2015</b> , 21, 355-63	6.8	7
27	Pediatric cardiac MRI: automated left-ventricular volumes and function analysis and effects of manual adjustments. <i>Pediatric Radiology</i> , <b>2015</b> , 45, 651-7	2.8	3
26	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> , <b>2015</b> , 15, 114	2.9	4
25	23Na Magnetic Resonance Imaging of the Lower Leg of Acute Heart Failure Patients during Diuretic Treatment. <i>PLoS ONE</i> , <b>2015</b> , 10, e0141336	3.7	49
24	iPad-based patient briefing for radiological examinations-a clinical trial. <i>Journal of Digital Imaging</i> , <b>2014</b> , 27, 479-85	5.3	10
23	MyCases-a portable application for radiologic case collections. <i>Journal of Digital Imaging</i> , <b>2014</b> , 27, 557-623	5.3	2
22	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> , <b>2014</b> , 9, 609-13	3.9	3
21	Practicability of hygienic wrapping of touchscreen operated mobile devices in a clinical setting. <i>PLoS ONE</i> , <b>2014</b> , 9, e106445	3.7	9
20	Intelligent Healthcare Applications. <i>Cognitive Technologies</i> , <b>2014</b> , 357-370	2	
19	Automatic detection of lytic and blastic thoracolumbar spine metastases on computed tomography. <i>European Radiology</i> , <b>2013</b> , 23, 1862-70	8	29
18	Can the documented patient briefing be carried out with an iPad app?. <i>Journal of Digital Imaging</i> , <b>2013</b> , 26, 383-92	5.3	13

17	Model-based pancreas segmentation in portal venous phase contrast-enhanced CT images. <i>Journal of Digital Imaging</i> , <b>2013</b> , 26, 1082-90	5.3	17
16	<sup>23</sup> Na magnetic resonance imaging-determined tissue sodium in healthy subjects and hypertensive patients. <i>Hypertension</i> , <b>2013</b> , 61, 635-40	8.5	243
15	Lymph node detection and segmentation in chest CT data using discriminative learning and a spatial prior. <i>Medical Image Analysis</i> , <b>2013</b> , 17, 254-70	15.4	40
14	A retrieval-based computer-aided diagnosis system for the characterization of liver lesions in CT scans. <i>Academic Radiology</i> , <b>2013</b> , 20, 1526-34	4.3	19
13	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> , <b>2013</b> , 73, 422-427	2	8
12	Fat Necrosis of the Breast Following Folinic Acid Extravasation. <i>Geburtshilfe Und Frauenheilkunde</i> , <b>2013</b> , 73, 148-151	2	0
11	Seeing the sodium in a patient with hypernatremia. <i>Kidney International</i> , <b>2012</b> , 82, 1343-4	9.9	23
10	A Discriminative Distance LearningBased CBIR Framework for Characterization of Indeterminate Liver Lesions. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 92-104	0.9	7
9	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> , <b>2012</b> , 12, 94	3.5	10
8	Combined semantic and similarity search in medical image databases <b>2011</b> ,		9
7	Role of guanylate binding protein-1 in vascular defects associated with chronic inflammatory diseases. <i>Journal of Cellular and Molecular Medicine</i> , <b>2011</b> , 15, 1582-92	5.6	21
6	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> , <b>2011</b> , 15, 2452-61	5.6	34
5	A probabilistic model for automatic segmentation of the esophagus in 3-D CT scans. <i>IEEE Transactions on Medical Imaging</i> , <b>2011</b> , 30, 1252-64	11.7	19
4	Automatic shape based deformable registration of multiphase contrast enhanced liver CT volumes <b>2011</b> ,		3
3	Automatic pancreas segmentation in contrast enhanced CT data using learned spatial anatomy and texture descriptors <b>2011</b> ,		12
2	Segmentation Based Features for Lymph Node Detection from 3-D Chest CT. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 91-99	0.9	2
1	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> , <b>2009</b> , 13, 926-35	5.6	23