

# Lars E Olsson

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

1,621  
citations

331670

21  
h-index

302126

39  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1523  
citing authors

#	ARTICLE	IF	CITATIONS
1	Delayed gadolinium-enhanced MRI of cartilage (dGEMRIC) in early knee osteoarthritis. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 488-492.	3.0	296
2	Gd-DTPA2--enhanced MRI of femoral knee cartilage: A dose-response study in healthy volunteers. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 1067-1071.	3.0	119
3	Technical Note: MRI only prostate radiotherapy planning using the statistical decomposition algorithm. <i>Medical Physics</i> , 2015, 42, 6090-6097.	3.0	112
4	Linear energy transfer dependence of a normoxic polymer gel dosimeter investigated using proton beam absorbed dose measurements. <i>Physics in Medicine and Biology</i> , 2004, 49, 3847-3855.	3.0	97
5	MAGIC-type polymer gel for three-dimensional dosimetry: Intensity-modulated radiation therapy verification. <i>Medical Physics</i> , 2003, 30, 1264-1271.	3.0	93
6	MR-OPERA: A Multicenter/Multivendor Validation of Magnetic Resonance Imaging--Only Prostate Treatment Planning Using Synthetic Computed Tomography Images. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 99, 692-700.	0.8	82
7	Image artifacts due to a time-varying contrast medium concentration in 3D contrast-enhanced MRA. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 10, 919-928.	3.4	54
8	Measurement of MR signal and T2* in lung to characterize a tight skin mouse model of emphysema using single-point imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 488-494.	3.4	49
9	Magnetic resonance imaging of experimental mouse colitis and association with inflammatory activity. <i>Inflammatory Bowel Diseases</i> , 2006, 12, 478-485.	1.9	48
10	<scp>MR</scp> and <scp>CT</scp> data with multiobserver delineations of organs in the pelvic area--Part of the Gold Atlas project. <i>Medical Physics</i> , 2018, 45, 1295-1300.	3.0	45
11	Ferrous sulphate gel dosimetry and MRI for proton beam dose measurements. <i>Physics in Medicine and Biology</i> , 1999, 44, 1983-1996.	3.0	43
12	Pre-contrast T1 and cartilage thickness as confounding factors in dGEMRIC when evaluating human cartilage adaptation to physical activity. <i>BMC Medical Imaging</i> , 2020, 20, 1.	2.7	41
13	Feasibility assessment of using oxygen-enhanced magnetic resonance imaging for evaluating the effect of pharmacological treatment in COPD. <i>European Journal of Radiology</i> , 2014, 83, 2093-2101.	2.6	30
14	<sup>3</sup> He MRI-based assessment of posture-dependent regional ventilation gradients in rats. <i>Journal of Applied Physiology</i> , 2005, 98, 2259-2267.	2.5	28
15	Registration free automatic identification of gold fiducial markers in MRI target delineation images for prostate radiotherapy. <i>Medical Physics</i> , 2017, 44, 5563-5574.	3.0	27
16	Clinical validation of a commercially available deep learning software for synthetic CT generation for brain. <i>Radiation Oncology</i> , 2021, 16, 66.	2.7	25
17	Dosimeter Gel and MR Imaging for Verification of Calculated Dose Distributions in Clinical Radiation Therapy. <i>Acta OncolÃ³gica</i> , 1997, 36, 283-290.	1.8	24
18	Dosimetric effects of adaptive prostate cancer radiotherapy in an MR-linac workflow. <i>Radiation Oncology</i> , 2020, 15, 168.	2.7	24

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19	MR-PROTECT: Clinical feasibility of a prostate MRI-only radiotherapy treatment workflow and investigation of acceptance criteria. <i>Radiation Oncology</i> , 2020, 15, 77.	2.7	24
20	Improvements in absorbed dose measurements for external radiation therapy using ferrous dosimeter gel and MR imaging (FeMRI). <i>Physics in Medicine and Biology</i> , 1998, 43, 261-276.	3.0	23
21	High-throughput magnetic resonance imaging in murine colonic inflammation. <i>Biochemical and Biophysical Research Communications</i> , 2007, 355, 1102-1107.	2.1	22
22	<sup>1</sup> H and hyperpolarized <sup>3</sup> He MR imaging of mouse with LPS-induced inflammation. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 977-981.	3.4	22
23	Intensity-based dual model method for generation of synthetic CT images from standard T2-weighted MR images – Generalized technique for four different MR scanners. <i>Radiation Oncology</i> , 2017, 125, 411-419.	0.6	22
24	A texture analysis approach to quantify ventilation changes in hyperpolarised <sup>3</sup> He MRI of the rat lung in an asthma model. <i>NMR in Biomedicine</i> , 2012, 25, 131-141.	2.8	20
25	Cone beam CT for QA of synthetic CT in MRI only for prostate patients. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 44-52.	1.9	19
26	Image analysis methods for assessing levels of image plane nonuniformity and stochastic noise in a magnetic resonance image of a homogeneous phantom. <i>Medical Physics</i> , 2000, 27, 1980-1994.	3.0	17
27	COPD Patients Have Short Lung Magnetic Resonance T1 Relaxation Time. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2016, 13, 153-159.	1.6	17
28	Target definition in radiotherapy of prostate cancer using magnetic resonance imaging only workflow. <i>Physics and Imaging in Radiation Oncology</i> , 2019, 9, 89-91.	2.9	15
29	Variable flip angle 3D ultrashort echo time (UTE) T <sub>1</sub> mapping of mouse lung: A repeatability assessment. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 846-852.	3.4	13
30	Imaging Biomarkers and Pathobiological Profiling in a Rat Model of Drug-Induced Interstitial Lung Disease Induced by Bleomycin. <i>Frontiers in Physiology</i> , 2020, 11, 584.	2.8	13
31	Separation of arteries and veins using flow-induced phase effects in contrast-enhanced MRA of the lower extremities. <i>Magnetic Resonance Imaging</i> , 2002, 20, 49-57.	1.8	11
32	Influence of age and sex on the longitudinal relaxation time, T1, of the lung in healthy never-smokers. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 1250-1257.	3.4	10
33	Basic concepts and applications of functional magnetic resonance imaging for radiotherapy of prostate cancer. <i>Physics and Imaging in Radiation Oncology</i> , 2019, 9, 50-57.	2.9	10
34	Volumetric modulated arc therapy dose prediction and deliverable treatment plan generation for prostate cancer patients using a densely connected deep learning model. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 19, 112-119.	2.9	10
35	MRI image plane nonuniformity in evaluation of ferrous sulphate dosimeter gel (FeGel) by means of T1-relaxation time. <i>Magnetic Resonance Imaging</i> , 1999, 17, 1357-1370.	1.8	9
36	Airspace Dimension Assessment (AiDA) by inhaled nanoparticles: benchmarking with hyperpolarised <sup>129</sup> Xe diffusion-weighted lung MRI. <i>Scientific Reports</i> , 2021, 11, 4721.	3.3	9

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37	Prospective Clinical Feasibility Study for MRI-Only Brain Radiotherapy. <i>Frontiers in Oncology</i> , 2021, 11, 812643.	2.8	9
38	Airspace Dimension Assessment with nanoparticles reflects lung density as quantified by MRI. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 2989-2995.	6.7	8
39	Repeatability and reproducibility of longitudinal relaxation rate in 12 small-animal MRI systems. <i>Magnetic Resonance Imaging</i> , 2019, 59, 121-129.	1.8	8
40	T1 Relaxation Time in Lungs of Asymptomatic Smokers. <i>PLoS ONE</i> , 2016, 11, e0149760.	2.5	8
41	Longitudinal Imaging Using PET/CT with Collagen-I PET-Tracer and MRI for Assessment of Fibrotic and Inflammatory Lesions in a Rat Lung Injury Model. <i>Journal of Clinical Medicine</i> , 2020, 9, 3706.	2.4	7
42	Investigation of the clinical inter-observer bias in prostate fiducial marker image registration between CT and MR images. <i>Radiation Oncology</i> , 2021, 16, 150.	2.7	7
43	Development and evaluation of a deep learning based artificial intelligence for automatic identification of gold fiducial markers in an MRI-only prostate radiotherapy workflow. <i>Physics in Medicine and Biology</i> , 2020, 65, 225011.	3.0	7
44	Imaging Biomarkers in Animal Models of Drug-Induced Lung Injury: A Systematic Review. <i>Journal of Clinical Medicine</i> , 2021, 10, 107.	2.4	7
45	Artificial intelligence and the medical physics profession - A Swedish perspective. <i>Physica Medica</i> , 2021, 88, 218-225.	0.7	6
46	Verification of Single Beam Treatment Planning Using a Ferrous Dosimeter Gel and MRI (FeMRI). <i>Acta Oncologica</i> , 1998, 37, 561-566.	1.8	5
47	A MRI and Polarized Gases Compatible Respirator and Gas Administrator for the Study of the Small Animal Lung: Volume Measurement and Control. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 1745-1749.	4.2	5
48	Knee dGEMRIC at 7T: comparison against 1.5T and evaluation of T1-mapping methods. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 149.	1.9	5
49	In Vivo Measurements of T2 Relaxation Time of Mouse Lungs during Inspiration and Expiration. <i>PLoS ONE</i> , 2016, 11, e0166879.	2.5	5
50	Using Cone Beam CT images from marker insertion to confirm the gold fiducial marker identification in an MRI-only prostate radiotherapy workflow. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 185-192.	1.9	4
51	The change of longitudinal relaxation rate in oxygen enhanced pulmonary MRI depends on age and BMI but not diffusing capacity of carbon monoxide in healthy never-smokers. <i>PLoS ONE</i> , 2017, 12, e0177670.	2.5	4
52	1H and hyperpolarized 3He magnetic resonance imaging clearly detect the preventative effect of a glucocorticoid on endotoxin-induced pulmonary inflammation in vivo. <i>Innate Immunity</i> , 2011, 17, 204-211.	2.4	1
53	High-Resolution MR Imaging of Muscular Fat Fraction—Comparison of Three T2-Based Methods and Chemical Shift-Encoded Imaging. <i>Tomography</i> , 2017, 3, 153-162.	1.8	1
54	Favorable fatty acid composition in adipose tissue in healthy Iraqi- compared to Swedish-born men—a pilot study using MRI assessment. <i>Adipocyte</i> , 2022, 11, 153-163.	2.8	1