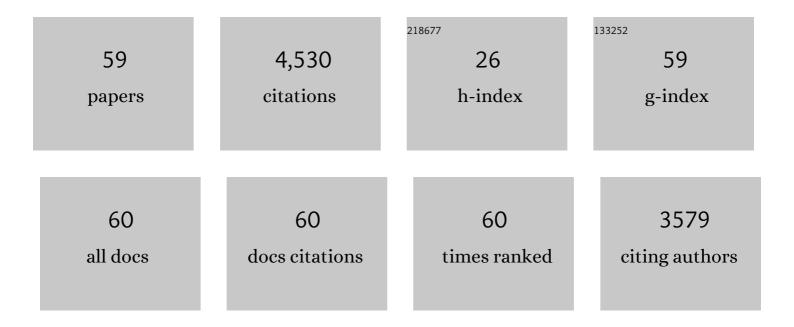
Ralph Sinkus

List of Publications by Year in descending order

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PALOH SINKIIS

#	Article	IF	CITATIONS
1	Decreased tissue stiffness in glioblastoma by MR elastography is associated with increased cerebral blood flow. European Journal of Radiology, 2022, 147, 110136.	2.6	16
2	Magnetic resonance elastography to study the effect of amyloid plaque accumulation in a mouse model. Journal of Neuroimaging, 2022, , .	2.0	2
3	MR elastography: Principles, guidelines, and terminology. Magnetic Resonance in Medicine, 2021, 85, 2377-2390.	3.0	100
4	Shear wave cardiovascular MR elastography using intrinsic cardiac motion for transducer-free non-invasive evaluation of myocardial shear wave velocity. Scientific Reports, 2021, 11, 1403.	3.3	9
5	Robustness of <scp>MR</scp> Elastography in the Healthy Brain: Repeatability, Reliability, and Effect of Different Reconstruction Methods. Journal of Magnetic Resonance Imaging, 2021, 53, 1510-1521.	3.4	20
6	Elastography Validity Criteria Definition Using Numerical Simulations and MR Acquisitions on a Low-Cost Structured Phantom. Frontiers in Physics, 2021, 9, .	2.1	4
7	Targeted Blood Brain Barrier Opening With Focused Ultrasound Induces Focal Macrophage/Microglial Activation in Experimental Autoimmune Encephalomyelitis. Frontiers in Neuroscience, 2021, 15, 665722.	2.8	6
8	Impact of axisymmetric deformation on MR elastography of a nonlinear tissue-mimicking material and implications in peri-tumour stiffness quantification. PLoS ONE, 2021, 16, e0253804.	2.5	1
9	A viscoelastic model for human myocardium. Acta Biomaterialia, 2021, 135, 441-457.	8.3	23
10	Magnetic Resonance Elastography Reconstruction for Anisotropic Tissues. Medical Image Analysis, 2021, 74, 102212.	11.6	22
11	The apparent mechanical effect of isolated amyloidâ€Î² and αâ€synuclein aggregates revealed by multiâ€frequency MRE. NMR in Biomedicine, 2020, 33, e4174.	2.8	12
12	Unipolar MR elastography: Theory, numerical analysis and implementation. NMR in Biomedicine, 2020, 33, e4138.	2.8	4
13	Biomarkers of liver fibrosis: prospective comparison of multimodal magnetic resonance, serum algorithms and transient elastography. Scandinavian Journal of Gastroenterology, 2020, 55, 848-859.	1.5	15
14	Magnetic Resonance Elastography reveals effects of anti-angiogenic glioblastoma treatment on tumor stiffness and captures progression in an orthotopic mouse model. Cancer Imaging, 2020, 20, 35.	2.8	11
15	Nonlinear viscoelastic constitutive model for bovine liver tissue. Biomechanics and Modeling in Mechanobiology, 2020, 19, 1641-1662.	2.8	21
16	Towards noninvasive estimation of tumour pressure by utilising MR elastography and nonlinear biomechanical models: a simulation and phantom study. Scientific Reports, 2020, 10, 5588.	3.3	19
17	Investigating the Contribution of Collagen to the Tumor Biomechanical Phenotype with Noninvasive Magnetic Resonance Elastography. Cancer Research, 2019, 79, 5874-5883.	0.9	35
18	Imaging localized neuronal activity at fast time scales through biomechanics. Science Advances, 2019, 5, eaav3816.	10.3	32

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19	Magnetic resonance elastography of skeletal muscle deep tissue injury. NMR in Biomedicine, 2019, 32, e4087.	2.8	14
20	A novel magnetic resonance elastography transducer concept based on a rotational eccentric mass: preliminary experiences with the gravitational transducer. Physics in Medicine and Biology, 2019, 64, 045007.	3.0	27
21	Ristretto MRE: A generalized multiâ€shot GREâ€MRE sequence. NMR in Biomedicine, 2019, 32, e4049.	2.8	21
22	Magnetic resonance elastography in nonlinear viscoelastic materials under load. Biomechanics and Modeling in Mechanobiology, 2019, 18, 111-135.	2.8	17
23	Characterization of glioblastoma in an orthotopic mouse model with magnetic resonance elastography. NMR in Biomedicine, 2018, 31, e3840.	2.8	25
24	Robust MR elastography stiffness quantification using a localized divergence free finite element reconstruction. Medical Image Analysis, 2018, 44, 126-142.	11.6	45
25	Analysis and improvement of motion encoding in magnetic resonance elastography. NMR in Biomedicine, 2018, 31, e3908.	2.8	18
26	Stiffness reconstruction methods for MR elastography. NMR in Biomedicine, 2018, 31, e3935.	2.8	59
27	Rheological determinants for simultaneous staging of hepatic fibrosis and inflammation in patients with chronic liver disease. NMR in Biomedicine, 2018, 31, e3956.	2.8	25
28	Special issue on MR elastography. NMR in Biomedicine, 2018, 31, e4003.	2.8	1
29	Response Monitoring with [18F]FLT PET and Diffusion-Weighted MRI After Cytotoxic 5-FU Treatment in an Experimental Rat Model for Colorectal Liver Metastases. Molecular Imaging and Biology, 2017, 19, 540-549.	2.6	6
30	Liver Stiffness Values Are Lower in Pediatric Subjects than in Adults and Increase with Age: A Multifrequency MR Elastography Study. Radiology, 2017, 283, 222-230.	7.3	36
31	A MRI-Compatible Combined Mechanical Loading and MR Elastography Setup to Study Deformation-Induced Skeletal Muscle Damage in Rats. PLoS ONE, 2017, 12, e0169864.	2.5	16
32	Cannabinoid receptor activation in the juvenile rat brain results in rapid biomechanical alterations: Neurovascular mechanism as a putative confounding factor. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 954-964.	4.3	12
33	Changes in Rat Brain Tissue Microstructure and Stiffness during the Development of Experimental Obstructive Hydrocephalus. PLoS ONE, 2016, 11, e0148652.	2.5	27
34	Bridging Three Orders of Magnitude: Multiple Scattered Waves Sense Fractal Microscopic Structures via Dispersion. Physical Review Letters, 2015, 115, 094301.	7.8	32
35	Microvasculature alters the dispersion properties of shear waves - a multi-frequency MR elastography study. NMR in Biomedicine, 2015, 28, 1763-1771.	2.8	20
36	A framework for optimizationâ€based design of motion encoding in magnetic resonance elastography. Magnetic Resonance in Medicine, 2015, 73, 1514-1525.	3.0	11

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37	Exploring the Biomechanical Properties of Brain Malignancies and Their Pathologic Determinants <i>In Vivo</i> with Magnetic Resonance Elastography. Cancer Research, 2015, 75, 1216-1224.	0.9	90
38	Viscoelastic Parameters for Quantifying Liver Fibrosis: Three-Dimensional Multifrequency MR Elastography Study on Thin Liver Rat Slices. PLoS ONE, 2014, 9, e94679.	2.5	20
39	In Vivo Anisotropic Mechanical Properties of Dystrophic Skeletal Muscles Measured by Anisotropic MR Elastographic Imaging: The mdx Mouse Model of Muscular Dystrophy. Radiology, 2014, 273, 726-735.	7.3	46
40	Prostate MR elastography with transperineal electromagnetic actuation and a fast fractionally encoded steadyâ€state gradient echo sequence. NMR in Biomedicine, 2014, 27, 784-794.	2.8	33
41	Assessment of portal hypertension and high-risk oesophageal varices with liver and spleen three-dimensional multifrequency MR elastography in liver cirrhosis. European Radiology, 2014, 24, 1394-402.	4.5	103
42	Elasticity of the Heart, Problems and Potentials. Current Cardiovascular Imaging Reports, 2014, 7, 1.	0.6	4
43	Transperineal prostate MR elastography: Initial in vivo results. Magnetic Resonance in Medicine, 2013, 69, 411-420.	3.0	45
44	Rapid acquisition of multifrequency, multislice and multidirectional MR elastography data with a fractionally encoded gradient echo sequence. NMR in Biomedicine, 2013, 26, 1326-1335.	2.8	77
45	Combining MR elastography and diffusion tensor imaging for the assessment of anisotropic mechanical properties: A phantom study. Journal of Magnetic Resonance Imaging, 2013, 37, 217-226.	3.4	77
46	Demyelination reduces brain parenchymal stiffness quantified in vivo by magnetic resonance elastography. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6650-6655.	7.1	193
47	Elasticity Imaging via MRI: Basics, Overcoming the Waveguide Limit, and Clinical Liver Results. Current Medical Imaging, 2012, 8, 56-63.	0.8	14
48	MR elastography of liver tumours: value of viscoelastic properties for tumour characterisation. European Radiology, 2012, 22, 2169-2177.	4.5	136
49	Colon Tumor Growth and Antivascular Treatment in Mice: Complementary Assessment with MR Elastography and Diffusion-weighted MR Imaging. Radiology, 2012, 264, 436-444.	7.3	55
50	A unifying fractional wave equation for compressional and shear waves. Journal of the Acoustical Society of America, 2010, 127, 542-548.	1.1	99
51	Early Detection of Steatohepatitis in Fatty Rat Liver by Using MR Elastography. Radiology, 2009, 253, 90-97.	7.3	134
52	<i>In vivo</i> brain viscoelastic properties measured by magnetic resonance elastography. NMR in Biomedicine, 2008, 21, 755-764.	2.8	364
53	MR elastography of liver fibrosis: preliminary results comparing spin-echo and echo-planar imaging. European Radiology, 2008, 18, 2535-2541.	4.5	78
54	Magnetic Resonance Elastography for the Noninvasive Staging of Liver Fibrosis. Gastroenterology, 2008, 135, 32-40.	1.3	650

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55	Liver Fibrosis: Noninvasive Assessment with MR Elastography versus Aspartate Aminotransferase–to-Platelet Ratio Index. Radiology, 2007, 245, 458-466.	7.3	353
56	MR elastography of breast lesions: Understanding the solid/liquid duality can improve the specificity of contrastâ€enhanced MR mammography. Magnetic Resonance in Medicine, 2007, 58, 1135-1144.	3.0	295
57	Liver fibrosis: non-invasive assessment with MR elastography. NMR in Biomedicine, 2006, 19, 173-179.	2.8	389
58	Magnetic Resonance Elastography of the Breast. Investigative Radiology, 2005, 40, 412-420.	6.2	69
59	Viscoelastic shear properties of in vivo breast lesions measured by MR elastography. Magnetic Resonance Imaging, 2005, 23, 159-165.	1.8	441