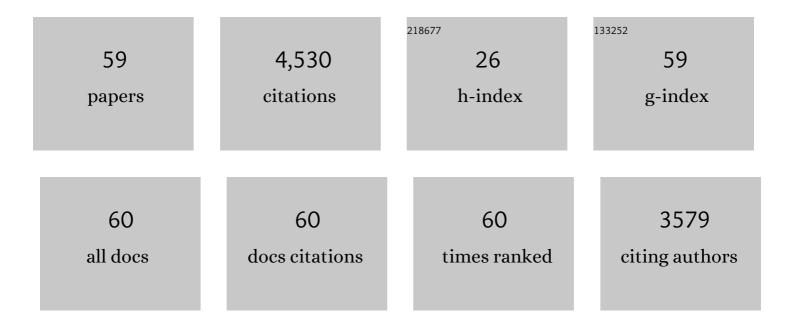
Ralph Sinkus

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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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 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 |