Richard L Ehman

List of Publications by Year
in descending order

328	21,945	5896 81	11939 134
papers	citations	h-index	g-index

335	335	335	12197
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of Hepatic Fibrosis With Magnetic Resonance Elastography. Clinical Gastroenterology and Hepatology, 2007, 5, 1207-1213.e2.	4.4	863
2	Magnetic resonance elastography: A review. Clinical Anatomy, 2010, 23, 497-511.	2.7	545
3	Magnetic resonance elastography of liver: Technique, analysis, and clinical applications. Journal of Magnetic Resonance Imaging, 2013, 37, 544-555.	3.4	511
4	Respiratory Motion of the Heart: Kinematics and the Implications for the Spatial Resolution in Coronary Imaging. Magnetic Resonance in Medicine, 1995, 33, 713-719.	3.0	446
5	Diagnostic Performance of Magnetic Resonance Elastography in Staging Liver Fibrosis: A Systematic Review and Meta-analysis of Individual Participant Data. Clinical Gastroenterology and Hepatology, 2015, 13, 440-451.e6.	4.4	427
6	MR Elastography of the Liver: Preliminary Results. Radiology, 2006, 240, 440-448.	7.3	400
7	Magnetic resonance elastography predicts advanced fibrosis in patients with nonalcoholic fatty liver disease: A prospective study. Hepatology, 2014, 60, 1920-1928.	7.3	388
8	Magnetic resonance elastography of the brain. NeuroImage, 2008, 39, 231-237.	4.2	375
9	Early Detection of Nonalcoholic Steatohepatitis in Patients with Nonalcoholic Fatty Liver Disease by Using MR Elastography. Radiology, 2011, 259, 749-756.	7.3	372
10	MR Elastography of Breast Cancer: Preliminary Results. American Journal of Roentgenology, 2002, 178, 1411-1417.	2.2	335
11	Complex-valued stiffness reconstruction for magnetic resonance elastography by algebraic inversion of the differential equation. Magnetic Resonance in Medicine, 2001, 45, 299-310.	3.0	313
12	Ezetimibe for the treatment of nonalcoholic steatohepatitis: Assessment by novel magnetic resonance imaging and magnetic resonance elastography in a randomized trial (MOZART trial). Hepatology, 2015, 61, 1239-1250.	7.3	296
13	Magnetic resonance imaging of hepatic fibrosis: Emerging clinical applications. Hepatology, 2008, 47, 332-342.	7.3	278
14	Decreased brain stiffness in Alzheimer's disease determined by magnetic resonance elastography. Journal of Magnetic Resonance Imaging, 2011, 34, 494-498.	3.4	277
15	Magnetic resonance elastography of skeletal muscle. Journal of Magnetic Resonance Imaging, 2001, 13, 269-276.	3.4	271
16	MR Elastography of Liver Tumors: Preliminary Results. American Journal of Roentgenology, 2008, 190, 1534-1540.	2.2	267
17	Magnetic Resonance vs Transient Elastography Analysis of Patients With Nonalcoholic Fatty Liver Disease: A Systematic Review and Pooled Analysis of Individual Participants. Clinical Gastroenterology and Hepatology, 2019, 17, 630-637.e8.	4.4	254
18	Magnetic resonance elastography. Nature Medicine, 1996, 2, 601-603.	30.7	233

#	Article	IF	Citations
19	Magnetic resonance imaging of transverse acoustic strain waves. Magnetic Resonance in Medicine, 1996, 36, 266-274.	3.0	231
20	Hepatic MR Elastography: Clinical Performance in a Series of 1377 Consecutive Examinations. Radiology, 2016, 278, 114-124.	7.3	228
21	Advanced Fibrosis in Nonalcoholic Fatty Liver Disease: Noninvasive Assessment with MR Elastography. Radiology, 2013, 268, 411-419.	7.3	203
22	Review of MR elastography applications and recent developments. Journal of Magnetic Resonance Imaging, 2012, 36, 757-774.	3.4	200
23	Assessment of Chronic Hepatitis and Fibrosis: Comparison of MR Elastography and Diffusion-Weighted Imaging. American Journal of Roentgenology, 2011, 196, 553-561.	2.2	198
24	Magnetic resonance elastography for staging liver fibrosis in non-alcoholic fatty liver disease: a diagnostic accuracy systematic review and individual participant data pooled analysis. European Radiology, 2016, 26, 1431-1440.	4.5	195
25	Feasibility of In Vivo MR Elastographic Splenic Stiffness Measurements in the Assessment of Portal Hypertension. American Journal of Roentgenology, 2009, 193, 122-127.	2.2	185
26	Measuring the effects of aging and sex on regional brain stiffness with MR elastography in healthy older adults. NeuroImage, 2015, 111, 59-64.	4.2	183
27	Respiratory kinematics of the upper abdominal organs: A quantitative study. Magnetic Resonance in Medicine, 1992, 23, 172-178.	3.0	181
28	Orbital navigator echoes for motion measurements in magnetic resonance imaging. Magnetic Resonance in Medicine, 1995, 34, 746-753.	3.0	176
29	Advanced MRI Methods for Assessment of Chronic Liver Disease. American Journal of Roentgenology, 2009, 193, 14-27.	2.2	169
30	A monitoring, feedback, and triggering system for reproducible breath-hold MR imaging. Magnetic Resonance in Medicine, 1993, 30, 507-511.	3.0	167
31	Dynamic MR digital subtraction angiography using contrast enhancement, fast data acquisition, and complex subtraction. Magnetic Resonance in Medicine, 1996, 36, 551-556.	3.0	167
32	Assessment of thermal tissue ablation with MR elastography. Magnetic Resonance in Medicine, 2001, 45, 80-87.	3.0	164
33	Evaluation of healthy and diseased muscle with magnetic resonance elastography. Archives of Physical Medicine and Rehabilitation, 2002, 83, 1530-1536.	0.9	162
34	Novel 3D Magnetic Resonance Elastography for the Noninvasive Diagnosis of Advanced Fibrosis in NAFLD: A Prospective Study. American Journal of Gastroenterology, 2016, 111, 986-994.	0.4	160
35	Elastography in Chronic Liver Disease: Modalities, Techniques, Limitations, and Future Directions. Radiographics, 2016, 36, 1987-2006.	3.3	154
36	Mechanical transientâ€based magnetic resonance elastography. Magnetic Resonance in Medicine, 2005, 53, 628-639.	3.0	153

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37	Regional brain stiffness changes across the Alzheimer's disease spectrum. NeuroImage: Clinical, 2016, 10, 283-290.	2.7	152
38	Determination of thigh muscle stiffness using magnetic resonance elastography. Journal of Magnetic Resonance Imaging, 2006, 23, 242-247.	3.4	149
39	Diagnostic accuracy of elastography and magnetic resonance imaging in patients with NAFLD: A systematic review and meta-analysis. Journal of Hepatology, 2021, 75, 770-785.	3.7	149
40	Interleaved echo planar imaging on a standard MRI system. Magnetic Resonance in Medicine, 1994, 31, 67-72.	3.0	146
41	Chronic passive venous congestion drives hepatic fibrogenesis via sinusoidal thrombosis and mechanical forces. Hepatology, 2015, 61, 648-659.	7.3	145
42	Diagnostic Performance of MR Elastography and Vibration-controlled Transient Elastography in the Detection of Hepatic Fibrosis in Patients with Severe to Morbid Obesity. Radiology, 2017, 283, 418-428.	7.3	140
43	Renal Vein and Inferior Vena Cava Tumor Thrombus in Renal Cell Carcinoma. Journal of Computer Assisted Tomography, 1992, 16, 240-247.	0.9	138
44	Preoperative assessment of meningioma stiffness using magnetic resonance elastography. Journal of Neurosurgery, 2013, 118, 643-648.	1.6	137
45	Applications of magnetic resonance elastography to healthy and pathologic skeletal muscle. Journal of Magnetic Resonance Imaging, 2007, 25, 301-309.	3.4	136
46	Magnetic Resonance Elastography of Liver. Magnetic Resonance Imaging Clinics of North America, 2014, 22, 433-446.	1.1	133
47	Analysis of systematic and random error in MR volumetric flow measurements. Magnetic Resonance in Medicine, 1993, 30, 82-91.	3.0	125
48	Measuring the Characteristic Topography of Brain Stiffness with Magnetic Resonance Elastography. PLoS ONE, 2013, 8, e81668.	2.5	125
49	MR elastography of the brain and its application in neurological diseases. NeuroImage, 2019, 187, 176-183.	4.2	125
50	Technical Failure of MR Elastography Examinations of the Liver: Experience from a Large Single-Center Study. Radiology, 2017, 284, 401-412.	7.3	124
51	Three-dimensional Contrast-enhanced MR Angiography with Real-time Fluoroscopic Triggering: Design Specifications and Technical Reliability in 330 Patient Studies. Radiology, 2000, 215, 584-593.	7.3	122
52	Noninvasive In Vivo Assessment of Renal Tissue Elasticity During Graded Renal Ischemia Using MR Elastography. Investigative Radiology, 2011, 46, 509-514.	6.2	119
53	Testâ€“retest repeatability of MR elastography for noninvasive liver fibrosis assessment in hepatitis C. Journal of Magnetic Resonance Imaging, 2011, 34, 947-955.	3.4	118
54	Neuropilin-1 Stimulates Tumor Growth by Increasing Fibronectin Fibril Assembly in the Tumor Microenvironment. Cancer Research, 2012, 72, 4047-4059.	0.9	117

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55	Distinguishing between Hepatic Inflammation and Fibrosis with MR Elastography. Radiology, 2017, 284, 694-705.	7.3	117
56	Prospective multiaxial motion correction for fMRI. Magnetic Resonance in Medicine, 2000, 43, 459-469.	3.0	116
57	3D coronary MR angiography in multiple breath-holds using a respiratory feedback monitor. Magnetic Resonance in Medicine, 1995, 34, 11-16.	3.0	112
58	Image metric-based correction (Autocorrection) of motion effects: Analysis of image metrics. Journal of Magnetic Resonance Imaging, 2000, 11, 174-181.	3.4	112
59	Quantitative assessment of hepatic fibrosis in an animal model with magnetic resonance elastography. Magnetic Resonance in Medicine, 2007, 58, 346-353.	3.0	112
60	Translational Molecular Self-Diffusion in Magnetic Resonance Imaging. Investigative Radiology, 1984, 19, 491-498.	6.2	111
61	Dynamic Postprandial Hepatic Stiffness Augmentation Assessed With MR Elastography in Patients With Chronic Liver Disease. American Journal of Roentgenology, 2011, 197, 64-70.	2.2	110
62	Feasibility of using 3D MR elastography to determine pancreatic stiffness in healthy volunteers. Journal of Magnetic Resonance Imaging, 2015, 41, 369-375.	3.4	108
63	Magnetic Resonance Elastography. Mayo Clinic Proceedings, 2015, 90, 882-894.	3.0	103
64	Magnetic resonance elastography measured shear stiffness as a biomarker of fibrosis in pediatric nonalcoholic fatty liver disease. Hepatology, 2017, 66, 1474-1485.	7.3	103
65	Evaluation of hepatic fibrosis: a review from the society of abdominal radiology disease focus panel. Abdominal Radiology, 2017, 42, 2037-2053.	2.1	102
66	Portal hypertension correlates with splenic stiffness as measured with MR elastography. Journal of Magnetic Resonance Imaging, 2011, 34, 79-87.	3.4	100
67	MR elastography: Principles, guidelines, and terminology. Magnetic Resonance in Medicine, 2021, 85, 2377-2390.	3.0	100
68	Peroneal Tendon Injuries. Foot and Ankle International, 1998, 19, 280-288.	2.3	98
69	MR Elastography for the Assessment of Hepatic Fibrosis in Patients with Chronic Hepatitis B Infection: Does Histologic Necroinflammation Influence the Measurement of Hepatic Stiffness?. Radiology, 2014, 273, 88-98.	7.3	97
70	Prediction of Esophageal Varices in Patients with Cirrhosis: Usefulness of Three-dimensional MR Elastography with Echo-planar Imaging Technique. Radiology, 2014, 272, 143-153.	7.3	97
71	Repeatability of MR Elastography of Liver: A Meta-Analysis. Radiology, 2017, 285, 92-100.	7.3	96
72	Imaging Findings of Congestive Hepatopathy. Radiographics, 2016, 36, 1024-1037.	3.3	95

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73	Real-time adaptive motion correction in functional MRI. Magnetic Resonance in Medicine, 1996, 36, 436-444.	3.0	92
74	Noninvasive muscle tension measurement using the novel technique of magnetic resonance elastography (MRE). Journal of Biomechanics, 2003, 36, 1917-1921.	2.1	91
75	Magnetic resonance elastography as a method for the assessment of effective myocardial stiffness throughout the cardiac cycle. Magnetic Resonance in Medicine, 2010, 64, 862-870.	3.0	90
76	Systemic Gadolinium Toxicity in Patients With Renal Insufficiency and Renal Failure: Retrospective Analysis of an Initial Experience. Mayo Clinic Proceedings, 1996, 71, 1150-1154.	3.0	87
77	Complementary vascular and matrix regulatory pathways underlie the beneficial mechanism of action of sorafenib in liver fibrosis. Hepatology, 2011, 54, 573-585.	7.3	87
78	MR Elastography in Renal Transplant Patients and Correlation with Renal Allograft Biopsy. Academic Radiology, 2012, 19, 834-841.	2.5	87
79	Higher-Resolution Magnetic Resonance Elastography in Meningiomas to Determine Intratumoral Consistency. Neurosurgery, 2015, 77, 653-659.	1.1	87
80	Non-invasive detection of liver fibrosis: MR imaging features vs. MR elastography. Abdominal Imaging, 2015, 40, 766-775.	2.0	86
81	MR imaging of shear waves generated by focused ultrasound. Magnetic Resonance in Medicine, 2000, 43, 111-115.	3.0	84
82	Thigh muscle stiffness assessed with magnetic resonance elastography in hyperthyroid patients before and after medical treatment. Journal of Magnetic Resonance Imaging, 2007, 26, 708-713.	3.4	84
83	Performance of magnetic resonance elastography in primary sclerosing cholangitis. Journal of Gastroenterology and Hepatology (Australia), 2016, 31, 1184-1190.	2.8	83
84	Role of magnetic resonance elastography in compensated and decompensated liver disease. Journal of Hepatology, 2014, 60, 934-939.	3.7	82
85	Evaluation of renal parenchymal disease in a rat model with magnetic resonance elastography. Magnetic Resonance in Medicine, 2004, 52, 56-64.	3.0	81
86	Value of MRI in medicine: More than just another test?. Journal of Magnetic Resonance Imaging, 2019, 49, e14-e25.	3.4	78
87	Magnetic resonance elastography of the brain in a mouse model of Alzheimer's disease: initial results. Magnetic Resonance Imaging, 2012, 30, 535-539.	1.8	77
88	MR Elastography Demonstrates Increased Brain Stiffness in Normal Pressure Hydrocephalus. American Journal of Neuroradiology, 2016, 37, 462-467.	2.4	77
89	Magnetic resonance elastography of abdomen. Abdominal Imaging, 2015, 40, 745-759.	2.0	76
90	Magnetic Resonance Elastography of Liver. Journal of Computer Assisted Tomography, 2013, 37, 887-896.	0.9	74

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91	Measurement of muscle activity with magnetic resonance elastography. Clinical Biomechanics, 2003, 18, 537-542.	1.2	73
92	Algorithms for extracting motion information from navigator echoes. Magnetic Resonance in Medicine, 1996, 36, 117-123.	3.0	72
93	MR elastography as a method for the assessment of myocardial stiffness: Comparison with an established pressureâ€“volume model in a left ventricular model of the heart. Magnetic Resonance in Medicine, 2009, 62, 135-140.	3.0	72
94	Magnetic Resonance Elastography of the Liver in Patients Status-Post Fontan Procedure: Feasibility and Preliminary Results. Congenital Heart Disease, 2014, 9, 7-14.	0.2	70
95	MR Elastography Analysis of Glioma Stiffness andIDH1-Mutation Status. American Journal of Neuroradiology, 2018, 39, 31-36.	2.4	70
96	Abdominal Magnetic Resonance Elastography. Topics in Magnetic Resonance Imaging, 2009, 20, 79-87.	1.2	69
97	Magnetic resonance elastography (MRE) in cancer: Technique, analysis, and applications. Progress in Nuclear Magnetic Resonance Spectroscopy, 2015, 90-91, 32-48.	7.5	69
98	MR Elastography Demonstrates Unique Regional Brain Stiffness Patterns in Dementias. American Journal of Roentgenology, 2017, 209, 403-408.	2.2	68
99	CT Fluoroscopyâ€“guided Biopsy of the Lung or Upper Abdomen with a Breath-hold Monitoring and Feedback System: A Prospective Randomized Controlled Clinical Trial. Radiology, 2005, 237, 701-708.	7.3	67
100	Flow artifact reduction in MRI: A review of the roles of gradient moment nulling and spatial presaturation. Magnetic Resonance in Medicine, 1990, 14, 293-307.	3.0	66
101	Magnetic Resonance Elastography for the Evaluation of Liver Fibrosis in Chronic Hepatitis B and C by Using Both Gradient-Recalled Echo and Spin-Echo Echo Planar Imaging: A Prospective Study. American Journal of Gastroenterology, 2016, 111, 823-833.	0.4	66
102	The Role of Threeâ€Ðimensional Magnetic Resonance Elastography in the Diagnosis of Nonalcoholic Steatohepatitis in Obese Patients Undergoing Bariatric Surgery. Hepatology, 2020, 71, 510-521.	7.3	65
103	Magnetic Resonance Elastography Noninvasively Detects In Vivo Renal Medullary Fibrosis Secondary to Swine Renal Artery Stenosis. Investigative Radiology, 2013, 48, 61-68.	6.2	64
104	Magnetic Resonance Elastography of the Liver. Investigative Radiology, 2016, 51, 575-581.	6.2	64
105	Cardiac MR elastography for quantitative assessment of elevated myocardial stiffness in cardiac amyloidosis. Journal of Magnetic Resonance Imaging, 2017, 46, 1361-1367.	3.4	63
106	Cross-vendor validation of liver magnetic resonance elastography. Abdominal Imaging, 2015, 40, 789-794.	2.0	62
107	Interplatform reproducibility of liver and spleen stiffness measured with MR elastography. Journal of Magnetic Resonance Imaging, 2016, 43, 1064-1072.	3.4	60
108	MR elastography of hepatocellular carcinoma: Correlation of tumor stiffness with histopathology featuresâ€”Preliminary findings. Magnetic Resonance Imaging, 2017, 37, 41-45.	1.8	59

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109	A prospective approach to correct for inter-image head rotation in FMRI. Magnetic Resonance in Medicine, 1998, 39, 234-243.	3.0	58
110	Magnetic resonance elastography of the liver: preliminary results and estimation of inter-rater reliability. Japanese Journal of Radiology, 2010, 28, 623-627.	2.4	58
111	Cardiac magnetic resonance fluoroscopy. Magnetic Resonance in Medicine, 1996, 36, 588-595.	3.0	57
112	Quantitative shear wave magnetic resonance elastography: Comparison to a dynamic shear material test. Magnetic Resonance in Medicine, 2005, 53, 1197-1201.	3.0	57
113	Liver Stiffness by Magnetic Resonance Elastography Predicts Future Cirrhosis, Decompensation, and Death in NAFLD. Clinical Gastroenterology and Hepatology, 2021, 19, 1915-1924.e6.	4.4	57
114	Autocorrection in MR Imaging: Adaptive Motion Correction without Navigator Echoes. Radiology, 2000, 215, 904-909.	7.3	56
115	Magnetic resonance elastography of frontotemporal dementia. Journal of Magnetic Resonance Imaging, 2016, 43, 474-478.	3.4	56
116	Magnetic resonance elastography detects tumoral consistency in pituitary macroadenomas. Pituitary, 2016, 19, 286-292.	2.9	56
117	<title>Image processing for magnetic-resonance elastography</title>. , 1996, , .		55
118	MR elastography of human lung parenchyma: Technical development, theoretical modeling and in vivo validation. Journal of Magnetic Resonance Imaging, 2011, 33, 1351-1361.	3.4	55
119	3D MR angiography of pulmonary arteries using realtime navigator gating and magnetization preparation. Magnetic Resonance in Medicine, 1996, 36, 579-587.	3.0	53
120	Retrospective adaptive motion correction for navigator-gated 3D coronary MR angiography. Journal of Magnetic Resonance Imaging, 2000, 11, 208-214.	3.4	53
121	Stiffness and Beyond. Topics in Magnetic Resonance Imaging, 2018, 27, 305-318.	1.2	53
122	MR elastography of the in vivo abdominal aorta: A feasibility study for comparing aortic stiffness between hypertensives and normotensives. Journal of Magnetic Resonance Imaging, 2012, 35, 582-586.	3.4	52
123	Automated liver stiffness measurements with magnetic resonance elastography. Journal of Magnetic Resonance Imaging, 2013, 38, 371-379.	3.4	52
124	Magnetic resonance elastography: evaluation of new inversion algorithm and quantitative analysis method. Abdominal Imaging, 2015, 40, 810-817.	2.0	52
125	Automated liver elasticity calculation for MR elastography. Journal of Magnetic Resonance Imaging, 2016, 43, 1055-1063.	3.4	51
126	Magnetic resonance elastography is accurate in detecting advanced fibrosis in autoimmune hepatitis. World Journal of Gastroenterology, 2017, 23, 859.	3.3	51

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127	Pelvic imaging with phased-array coils: Quantitative assessment of signal-to-noise ratio improvement. Journal of Magnetic Resonance Imaging, 1992, 2, 321-326.	3.4	50
128	Inoperable Plasma Cell Granuloma of the Heart: Spontaneous Decrease in Size During an 11-Month Period. Mayo Clinic Proceedings, 1988, 63, 1022-1025.	3.0	49
129	Spatial-Frequency-Tuned Markers and Adaptive Correction for Rotational Motion. Magnetic Resonance in Medicine, 1995, 33, 663-669.	3.0	49
130	MR elastography of the ex vivo bovine globe. Journal of Magnetic Resonance Imaging, 2010, 32, 44-51.	3.4	49
131	Hepatic and splenic stiffness augmentation assessed with MR elastography in an in vivo porcine portal hypertension model. Journal of Magnetic Resonance Imaging, 2013, 38, 809-815.	3.4	49
132	Characterization of the dynamic shear properties of hyaline cartilage using highâ€frequency dynamic MR elastography. Magnetic Resonance in Medicine, 2008, 59, 356-364.	3.0	48
133	3D MR Elastography of Hepatocellular Carcinomas as a Potential Biomarker for Predicting Tumor Recurrence. Journal of Magnetic Resonance Imaging, 2019, 49, 719-730.	3.4	48
134	Pediatric MR elastography of hepatic fibrosis: principles, technique and early clinical experience. Pediatric Radiology, 2012, 42, 402-409.	2.0	47
135	MR elastography derived shear stiffness-a new imaging biomarker for the assessment of early tumor response to chemotherapy. Magnetic Resonance in Medicine, 2014, 71, 1834-1840.	3.0	47
136	Application of Modified Spin-Echoâ€“based Sequences for Hepatic MR Elastography: Evaluation, Comparison with the Conventional Gradient-Echo Sequence, and Preliminary Clinical Experience. Radiology, 2017, 282, 390-398.	7.3	46
137	Association Between Obesity and Discordance in Fibrosis Stage Determination by Magnetic Resonance vs Transient Elastography in Patients With Nonalcoholic Liver Disease. Clinical Gastroenterology and Hepatology, 2018, 16, 1974-1982.e7.	4.4	46
138	Slip Interface Imaging Predicts Tumor-Brain Adhesion in Vestibular Schwannomas. Radiology, 2015, 277, 507-517.	7.3	45
139	Quantitative assessment of lung stiffness in patients with interstitial lung disease using MR elastography. Journal of Magnetic Resonance Imaging, 2017, 46, 365-374.	3.4	45
140	Two-dimensional multishot echo-planar coronary MR angiography. Magnetic Resonance in Medicine, 1998, 40, 883-889.	3.0	44
141	Slip interface imaging based on MRâ€elastography preoperatively predicts meningiomaâ€“brain adhesion. Journal of Magnetic Resonance Imaging, 2017, 46, 1007-1016.	3.4	44
142	Comparison of diagnostic accuracies of twoâ€•and threeâ€dimensional MR elastography of the liver. Journal of Magnetic Resonance Imaging, 2017, 45, 1163-1170.	3.4	44
143	Pancreatic Stiffness Quantified with MR Elastography: Relationship to Postoperative Pancreatic Fistula after Pancreaticoenteric Anastomosis. Radiology, 2018, 288, 476-484.	7.3	43
144	MR imaging of knee hyaline cartilage: Evaluation of two- and three-dimensional sequences. Journal of Magnetic Resonance Imaging, 1993, 3, 663-668.	3.4	42

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145	Cine Phase-Contrast MR Flow Measurements. Journal of Computer Assisted Tomography, 1994, 18, 469-475.	0.9	42
146	Enhanced MRI of tumors utilizing a new nitroxyl spin label contrast agent. Magnetic Resonance Imaging, 1985, 3, 89-97.	1.8	41
147	Relative Intensity of Abdominal Organs in MR Images. Journal of Computer Assisted Tomography, 1985, 9, 315-319.	0.9	40
148	Developments in dynamic MR elastography for in vitro biomechanical assessment of hyaline cartilage under highâ€frequency cyclical shear. Journal of Magnetic Resonance Imaging, 2007, 25, 310-320.	3.4	40
149	Magnetic resonance elastography as a method to estimate myocardial contractility. Journal of Magnetic Resonance Imaging, 2012, 36, 120-127.	3.4	40
150	Artificial neural networks for stiffness estimation in magnetic resonance elastography. Magnetic Resonance in Medicine, 2018, 80, 351-360.	3.0	40
151	Prediction of nonalcoholic fatty liver disease (NAFLD) activity score (NAS) with multiparametric hepatic magnetic resonance imaging and elastography. European Radiology, 2019, 29, 5823-5831.	4.5	40
152	Magnetic resonance elastography: beyond liver fibrosisâ€”a case-based pictorial review. Abdominal Radiology, 2018, 43, 1590-1611.	2.1	39
153	Two-dimensional echocardiographic and magnetic resonance imaging observations in massive lipomatous hypertrophy of the atrial septum. American Journal of Cardiology, 1987, 59, 489-491.	1.6	38
154	Rapid magnetic resonance elastography of muscle using oneâ€dimensional projection. Journal of Magnetic Resonance Imaging, 2008, 27, 1083-1088.	3.4	38
155	MR Angiography in Portal Hypertension. Journal of Computer Assisted Tomography, 1991, 15, 578-584.	0.9	37
156	Altered phase-encoding order for reduced sensitivity to motion in three-dimensional MR imaging. Journal of Magnetic Resonance Imaging, 1992, 2, 687-693.	3.4	37
157	Diagnostic accuracy of magnetic resonance elastography in liver transplant recipients: A pooled analysis. Annals of Hepatology, 2016, 15, 363-376.	1.5	37
158	Value of tumor stiffness measured with MR elastography for assessment of response of hepatocellular carcinoma to locoregional therapy. Abdominal Radiology, 2017, 42, 1685-1694.	2.1	37
159	In vivo assessment of MR elastographyâ€derived effective endâ€diastolic myocardial stiffness under different loading conditions. Journal of Magnetic Resonance Imaging, 2011, 33, 1224-1228.	3.4	36
160	Clinical Correlation of Abnormal Findings on Magnetic Resonance Elastography in Idiopathic Normal Pressure Hydrocephalus. World Neurosurgery, 2017, 99, 695-700.e1.	1.3	36
161	Differentiation of benign and malignant solid pancreatic masses using magnetic resonance elastography with spin-echo echo planar imaging and three-dimensional inversion reconstruction: a prospective study. European Radiology, 2018, 28, 936-945.	4.5	36
162	Diffraction-biased shear wave fields generated with longitudinal magnetic resonance elastography drivers. Magnetic Resonance Imaging, 2008, 26, 770-780.	1.8	35

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163	Acute pressure changes in the brain are correlated with MR elastography stiffness measurements: initial feasibility in an in vivo large animal model. Magnetic Resonance in Medicine, 2018, 79, 1043-1051.	3.0	35
164	A finite element model for analyzing shear wave propagation observed in magnetic resonance elastography. Journal of Biomechanics, 2005, 38, 2198-2203.	2.1	34
165	Magnetic Resonance Imaging of Pediatric Muscular Disorders. Radiologic Clinics of North America, 2013, 51, 721-742.	1.8	34
166	Repeatability and reproducibility of 2D and 3D hepatic MR elastography with rigid and flexible drivers at end-expiration and end-inspiration in healthy volunteers. Abdominal Radiology, 2017, 42, 2843-2854.	2.1	34
167	Influence of Age on Global and Regional Brain Stiffness in Young and Middleâ€Aged Adults. Journal of Magnetic Resonance Imaging, 2020, 51, 727-733.	3.4	34
168	Magnetic resonance elastography of uterine leiomyomas: a feasibility study. Fertility and Sterility, 2011, 95, 281-284.	1.0	33
169	Immunotherapy response evaluation with magnetic resonance elastography (MRE) in advanced HCC. , 2019, 7, 329.		33
170	Magnetic Resonance Elastography. Current Medical Imaging, 2012, 8, 46-55.	0.8	32
171	Characterization of a hyper-viscoelastic phantom mimicking biological soft tissue using an abdominal pneumatic driver with magnetic resonance elastography (MRE). Journal of Biomechanics, 2012, 45, 952-957.	2.1	32
172	Estimation of the absolute shear stiffness of human lung parenchyma using ¹H spin echo, echo planar MR elastography. Journal of Magnetic Resonance Imaging, 2014, 40, 1230-1237.	3.4	32
173	Quantitative assessment of lung stiffness in patients with interstitial lung disease using MR elastography. Journal of Magnetic Resonance Imaging, 2017, 46, spcone-spcone.	3.4	32
174	Identification of Normal Pressure Hydrocephalus by Disease-Specific Patterns of Brain Stiffness and Damping Ratio. Investigative Radiology, 2020, 55, 200-208.	6.2	32
175	Translational Molecular Self-Diffusion in Magnetic Resonance Imaging. Investigative Radiology, 1984, 19, 484-490.	6.2	31
176	Adaptive motion compensation in MRI: Accuracy of motion measurement. Magnetic Resonance in Medicine, 1991, 18, 207-213.	3.0	31
177	Proton MR Chemical Shift Imaging using Double and Triple Phase Contrast Acquisition Methods. Journal of Computer Assisted Tomography, 1989, 13, 855-861.	0.9	30
178	Magnetic Resonance Imaging of Vascular Rings. Mayo Clinic Proceedings, 1986, 61, 181-185.	3.0	29
179	Science to Practice: Can MR Elastography Be Used to Detect Early Steatohepatitis in Fatty Liver Disease?. Radiology, 2009, 253, 1-3.	7.3	29
180	Phaseâ€contrast MRIâ€based elastography technique detects early hypertensive changes in ex vivo porcine aortic wall. Journal of Magnetic Resonance Imaging, 2009, 29, 583-587.	3.4	29

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181	Highâ€frequency mode conversion technique for stiff lesion detection with magnetic resonance elastography (MRE). Magnetic Resonance in Medicine, 2009, 62, 1457-1465.	3.0	29
182	Quantitative 3D magnetic resonance elastography: Comparison with dynamic mechanical analysis. Magnetic Resonance in Medicine, 2017, 77, 1184-1192.	3.0	29
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