

Ek T. Tan

List of Publications by Year in descending order

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53
papers

1,067
citations

516215

16
h-index

454577

30
g-index

54
all docs

54
docs citations

54
times ranked

1356
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated diffusion spectrum imaging in the human brain using compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1226-1233.	1.9	114
2	Peripheral nerve diffusion tensor imaging: Overview, pitfalls, and future directions. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 1171-1189.	1.9	76
3	Lightweight, compact, and high-performance 3T MR system for imaging the brain and extremities. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2232-2245.	1.9	70
4	Improved correction for gradient nonlinearity effects in diffusion-weighted imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 448-453.	1.9	68
5	Highly efficient head-only magnetic field insert gradient coil for achieving simultaneous high gradient amplitude and slew rate at 3.0T (MAGNUS) for brain microstructure imaging. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2356-2369.	1.9	63
6	Peripheral nerve stimulation characteristics of an asymmetric head-only gradient coil compatible with a high-channel-count receiver array. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1939-1950.	1.9	55
7	Gradient nonlinearity correction to improve apparent diffusion coefficient accuracy and standardization in the american college of radiology imaging network 6698 breast cancer trial. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 908-919.	1.9	53
8	High slew-rate head-only gradient for improving distortion in echo planar imaging: Preliminary experience. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 653-664.	1.9	53
9	In Vivo Three-Dimensional Displacement of the Distal Radioulnar Joint During Resisted Forearm Rotation. <i>Journal of Hand Surgery</i> , 2007, 32, 450-458.	0.7	31
10	Diffusion kurtosis and quantitative susceptibility mapping MRI are sensitive to structural abnormalities in amyotrophic lateral sclerosis. <i>NeuroImage: Clinical</i> , 2019, 24, 101953.	1.4	29
11	Dynamic slice-dependent shim and center frequency update in 3 T breast diffusion weighted imaging. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1813-1818.	1.9	28
12	Distortion correction in diffusion-weighted imaging of the breast: Performance assessment of prospective, retrospective, and combined (prospective+retrospective) approaches. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 247-253.	1.9	28
13	Improvement of peripheral nerve visualization using a deep learning-based MR reconstruction algorithm. <i>Magnetic Resonance Imaging</i> , 2022, 85, 186-192.	1.0	27
14	Peripheral nerve stimulation limits of a high amplitude and slew rate magnetic field gradient coil for neuroimaging. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 352-366.	1.9	26
15	Evaluation of deep learning reconstructed high-resolution 3D lumbar spine MRI. <i>European Radiology</i> , 2022, 32, 6167-6177.	2.3	26
16	Post-Contrast 3D Inversion Recovery Magnetic Resonance Neurography for Evaluation of Branch Nerves of the Brachial Plexus. <i>European Journal of Radiology</i> , 2020, 132, 109304.	1.2	23
17	Oscillating diffusion encoding with a high gradient amplitude and high slew-rate head-only gradient for human brain imaging. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 950-965.	1.9	22
18	MR Neurography of Peripheral Nerve Injury in the Presence of Orthopedic Hardware: Technical Considerations. <i>Radiology</i> , 2021, 300, 246-259.	3.6	19

#	ARTICLE	IF	CITATIONS
19	Brain tumor segmentation with symmetric texture and symmetric intensity-based decision forests. , 2013, 2013, 748-751.		17
20	Model-based denoising in diffusion-weighted imaging using generalized spherical deconvolution. Magnetic Resonance in Medicine, 2017, 78, 2428-2438.	1.9	15
21	Distortion-free imaging: A double encoding method (DIADDEM) combined with multiband imaging for rapid distortion-free high-resolution diffusion imaging on a compact 3T with high-performance gradients. Journal of Magnetic Resonance Imaging, 2020, 51, 296-310.	1.9	15
22	Bias and precision analysis of diffusional kurtosis imaging for different acquisition schemes. Magnetic Resonance in Medicine, 2016, 76, 1684-1696.	1.9	14
23	Stretchable self-tuning MRI receive coils based on liquid metal technology (LiquiTune). Scientific Reports, 2021, 11, 16228.	1.6	14
24	The predictive value of psoas and paraspinal muscle parameters measured on MRI for severe cage subsidence after standalone lateral lumbar interbody fusion. Spine Journal, 2023, 23, 42-53.	0.6	14
25	Comparison of compressed sensing diffusion spectrum imaging and diffusion tensor imaging in patients with intracranial masses. Magnetic Resonance Imaging, 2017, 36, 24-31.	1.0	13
26	Investigation of superior longitudinal fasciculus fiber complexity in recent onset psychosis. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2018, 81, 114-121.	2.5	13
27	Improving apparent diffusion coefficient accuracy on a compact 3T MRI scanner using gradient nonlinearity correction. Journal of Magnetic Resonance Imaging, 2018, 48, 1498-1507.	1.9	13
28	Multi-directional anisotropy from diffusion orientation distribution functions. Journal of Magnetic Resonance Imaging, 2015, 41, 841-850.	1.9	12
29	Quantitative MRI Differentiates Electromyography Severity Grades of Denervated Muscle in Neuropathy of the Brachial Plexus. Journal of Magnetic Resonance Imaging, 2022, 56, 1104-1115.	1.9	11
30	Diffusion MRI fiber diameter for muscle denervation assessment. Quantitative Imaging in Medicine and Surgery, 2022, 12, 80-94.	1.1	10
31	Fast inversion recovery magnetic resonance angiography of the intracranial arteries. Magnetic Resonance in Medicine, 2010, 63, 1648-1658.	1.9	9
32	iSTAPLE: improved label fusion for segmentation by combining STAPLE with image intensity. Proceedings of SPIE, 2013, 8669, .	0.8	9
33	Denoising of diffusion MRI improves peripheral nerve conspicuity and reproducibility. Journal of Magnetic Resonance Imaging, 2020, 51, 1128-1137.	1.9	9
34	Quantitative T ₂ -mapping magnetic resonance imaging for assessment of muscle motor unit recruitment patterns. Muscle and Nerve, 2021, 63, 703-709.	1.0	8
35	Ferumoxitol-enhanced vascular suppression in magnetic resonance neurography. Skeletal Radiology, 2021, 50, 2255-2266.	1.2	8
36	Retrospective Correction of ADC for Gradient Nonlinearity Errors in Multicenter Breast DWI Trials: ACRIN6698 Multiplatform Feasibility Study. Tomography, 2020, 6, 86-92.	0.8	8

#	ARTICLE	IF	CITATIONS
37	3D MRI of the Spine. <i>Seminars in Musculoskeletal Radiology</i> , 2021, 25, 433-440.	0.4	7
38	Reduced acoustic noise in diffusion tensor imaging on a compact <scp>MRI</scp> system. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2902-2911.	1.9	6
39	Denoising and Multiple Tissue Compartment Visualization of Multi-Valued Breast Diffusion MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 271-282.	1.9	6
40	Empirical validation of gradient field models for an accurate ADC measured on clinical 3T MR systems in body oncologic applications. <i>Physica Medica</i> , 2021, 86, 113-120.	0.4	6
41	A Combined CFD/MRV Study of Flow Through a Pin Bank. , 2014, , .		5
42	Improved nerve conspicuity with water-weighting and denoising in two-point Dixon magnetic resonance neurography. <i>Magnetic Resonance Imaging</i> , 2021, 79, 103-111.	1.0	4
43	Long-Term Stability of Gradient Characteristics Warrants Model-Based Correction of Diffusion Weighting Bias. <i>Tomography</i> , 2022, 8, 364-375.	0.8	3
44	Can Quantitative MRI Be Used to Differentiate Physiologic Changes Behind Muscle Weakness in Type 2 Diabetes Mellitus?. <i>Radiology</i> , 2020, 297, 620-621.	3.6	2
45	Joint Super-Resolution Using Only One Anisotropic Low-Resolution Image per q-Space Coordinate. <i>Mathematics and Visualization</i> , 2014, , 181-191.	0.4	2
46	Computationally inexpensive and effective scheme for automatic transcription of polyphonic music. , 0, , .		1
47	Inversion recovery with embedded self-calibration (IRES). <i>Magnetic Resonance in Medicine</i> , 2009, 62, 459-467.	1.9	1
48	Deformable Atlas for Multi-structure Segmentation. <i>Lecture Notes in Computer Science</i> , 2013, 16, 743-750.	1.0	1
49	403. Investigation of Superior Longitudinal Fasciculus Fiber Complexity in Recent-Onset Psychosis. <i>Biological Psychiatry</i> , 2017, 81, S164-S165.	0.7	0
50	Editorial for "Quantitative MRI Reveals Microstructural Changes in the Upper Leg Muscles After Running a Marathon". <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 418-419.	1.9	0
51	Evaluation of self-calibrated non-linear phase-contrast correction in pediatric and congenital cardiovascular magnetic resonance imaging. <i>Pediatric Radiology</i> , 2020, 50, 656-663.	1.1	0
52	Denoising and Multiple Tissue Compartment Visualization of Multi-Valued Breast Diffusion <scp>MRI</scp>. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, spcone.	1.9	0
53	99. The association of spinal lean muscle volume on lumbar spine MRI and regional volumetric bone mineral density measured by quantitative computed tomography. <i>Spine Journal</i> , 2021, 21, S48-S49.	0.6	0