

Eric E Sigmund

List of Publications by Year in descending order

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81
papers

4,430
citations

94433

37
h-index

106344

65
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84
all docs

84
docs citations

84
times ranked

4691
citing authors

#	ARTICLE	IF	CITATIONS
1	Intravoxel Incoherent Motion Magnetic Resonance Imaging in Skeletal Muscle: Review and Future Directions. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 55, 988-1012.	3.4	14
2	A survey by the European Society of Breast Imaging on the implementation of breast diffusion-weighted imaging in clinical practice. <i>European Radiology</i> , 2022, 32, 6588-6597.	4.5	14
3	Geometric Distortion Correction of Renal Diffusion Tensor Imaging Using the Reversed Gradient Method. <i>Journal of Computer Assisted Tomography</i> , 2021, 45, 218-223.	0.9	5
4	Effect of intravoxel incoherent motion on diffusion parameters in normal brain. <i>NeuroImage</i> , 2020, 204, 116228.	4.2	14
5	Diffusion MRI of the breast: Current status and future directions. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 70-90.	3.4	113
6	Technical recommendations for clinical translation of renal MRI: a consensus project of the Cooperation in Science and Technology Action PARENCHIMA. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 131-140.	2.0	44
7	Consensus-based technical recommendations for clinical translation of renal diffusion-weighted MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 177-195.	2.0	61
8	Diffusion-weighted imaging of the breast—a consensus and mission statement from the EUSOBI International Breast Diffusion-Weighted Imaging working group. <i>European Radiology</i> , 2020, 30, 1436-1450.	4.5	255
9	Preliminary analysis: Background parenchymal 18F-FDG uptake in breast cancer patients appears to correlate with background parenchymal enhancement and to vary by distance from the index cancer. <i>European Journal of Radiology</i> , 2019, 110, 163-168.	2.6	3
10	Diffusion-weighted Imaging of Prostate Cancer: Revisiting Occam's Razor. <i>Radiology</i> , 2019, 291, 398-399.	7.3	1
11	REnal Flow and Microstructure Anisotropy (REFMAP) MRI in Normal and Peritumoral Renal Tissue. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 188-197.	3.4	11
12	Spatially resolved kinetics of skeletal muscle exercise response and recovery with multiple echo diffusion tensor imaging (MEDITI): a feasibility study. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018, 31, 599-608.	2.0	6
13	MRI assessment of the thigh musculature in dermatomyositis and healthy subjects using diffusion tensor imaging, intravoxel incoherent motion and dynamic DTI. <i>European Radiology</i> , 2018, 28, 5304-5315.	4.5	24
14	Stimulated echo diffusion tensor imaging (STEAM-DTI) with varying diffusion times as a probe of breast tissue. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, spcone-spcone.	3.4	0
15	Intravoxel incoherent motion (IVIM) histogram biomarkers for prediction of neoadjuvant treatment response in breast cancer patients. <i>European Journal of Radiology Open</i> , 2017, 4, 101-107.	1.6	32
16	Voxelwise analysis of simultaneously acquired and spatially correlated ¹⁸ F-fluorodeoxyglucose (FDG) PET and intravoxel incoherent motion metrics in breast cancer. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1147-1156.	3.0	9
17	Diffusion-weighted breast MRI: Clinical applications and emerging techniques. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 337-355.	3.4	243
18	<i>In vivo</i> measurement of membrane permeability and myofiber size in human muscle using time-dependent diffusion tensor imaging and the random permeable barrier model. <i>NMR in Biomedicine</i> , 2017, 30, e3612.	2.8	44

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19	Stimulated echo diffusion tensor imaging (STEAM-DTI) with varying diffusion times as a probe of breast tissue. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 84-93.	3.4	30
20	Assessment of Aggressiveness of Breast Cancer Using Simultaneous 18F-FDG-PET and DCE-MRI. <i>Clinical Nuclear Medicine</i> , 2016, 41, e355-e361.	1.3	22
21	Comparison of Whole-Body ¹⁸ F FDG PET/MR Imaging and Whole-Body ¹⁸ F FDG PET/CT in Terms of Lesion Detection and Radiation Dose in Patients with Breast Cancer. <i>Radiology</i> , 2016, 281, 193-202.	7.3	99
22	Diffusion-weighted imaging outside the brain: Consensus statement from an ISMRM-sponsored workshop. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 521-540.	3.4	146
23	Magnetic Resonance Imaging of Part-solid Nodules. <i>Journal of Thoracic Imaging</i> , 2016, 31, 2-10.	1.5	5
24	Evaluation of breast cancer using intravoxel incoherent motion (IVIM) histogram analysis: comparison with malignant status, histological subtype, and molecular prognostic factors. <i>European Radiology</i> , 2016, 26, 2547-2558.	4.5	122
25	Comparison of fitting methods and Monte Carlo sampling strategies for intravoxel incoherent motion in breast cancer. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1077-1085.	3.0	95
26	Dynamic diffusion-tensor measurements in muscle tissue using the single-line multiple-echo diffusion-tensor acquisition technique at 3T. <i>NMR in Biomedicine</i> , 2015, 28, 667-678.	2.8	8
27	Combined intravoxel incoherent motion and diffusion tensor imaging of renal diffusion and flow anisotropy. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1526-1532.	3.0	85
28	Subtype Differentiation of Renal Tumors Using Voxel-Based Histogram Analysis of Intravoxel Incoherent Motion Parameters. <i>Investigative Radiology</i> , 2015, 50, 144-152.	6.2	56
29	Comparison of contrast enhancement and diffusion-weighted magnetic resonance imaging in healthy and cancerous breast tissue. <i>European Journal of Radiology</i> , 2015, 84, 1888-1893.	2.6	16
30	A model-based reconstruction for undersampled radial spin-echo DTI with variational penalties on the diffusion tensor. <i>NMR in Biomedicine</i> , 2015, 28, 353-366.	2.8	39
31	Time-dependent diffusion in skeletal muscle with the random permeable barrier model (RPBM): application to normal controls and chronic exertional compartment syndrome patients. <i>NMR in Biomedicine</i> , 2014, 27, 519-528.	2.8	71
32	New magnetic resonance imaging methods in nephrology. <i>Kidney International</i> , 2014, 85, 768-778.	5.2	84
33	Toward simultaneous PET/MR breast imaging: Systematic evaluation and integration of a radiofrequency breast coil. <i>Medical Physics</i> , 2013, 40, 024301.	3.0	54
34	Utility of Diffusional Kurtosis Imaging as a Marker of Adverse Pathologic Outcomes Among Prostate Cancer Active Surveillance Candidates Undergoing Radical Prostatectomy. <i>American Journal of Roentgenology</i> , 2013, 201, 840-846.	2.2	40
35	Ductal Carcinoma in Situ of the Breasts: Review of MR Imaging Features. <i>Radiographics</i> , 2013, 33, 1569-1588.	3.3	83
36	A Better Characterization of Spinal Cord Damage in Multiple Sclerosis: A Diffusional Kurtosis Imaging Study. <i>American Journal of Neuroradiology</i> , 2013, 34, 1846-1852.	2.4	64

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37	Multiple-echo diffusion tensor acquisition technique (MEDITATE) on a 3T clinical scanner. NMR in Biomedicine, 2013, 26, 1471-1483.	2.8	9
38	Stimulated echo diffusion tensor imaging and SPAIR T ₂ -weighted imaging in chronic exertional compartment syndrome of the lower leg muscles. Journal of Magnetic Resonance Imaging, 2013, 38, 1073-1082.	3.4	44
39	Renal Blood Oxygenation Level-Dependent Imaging. Investigative Radiology, 2013, 48, 501-508.	6.2	18
40	Prostate Cancer: Feasibility and Preliminary Experience of a Diffusional Kurtosis Model for Detection and Assessment of Aggressiveness of Peripheral Zone Cancer. Radiology, 2012, 264, 126-135.	7.3	223
41	Intravoxel Incoherent Motion and Diffusion-Tensor Imaging in Renal Tissue under Hydration and Furosemide Flow Challenges. Radiology, 2012, 263, 758-769.	7.3	185
42	Diffusion-Weighted Intravoxel Incoherent Motion Imaging of Renal Tumors With Histopathologic Correlation. Investigative Radiology, 2012, 47, 688-696.	6.2	100
43	Assessment of hepatocellular carcinoma using apparent diffusion coefficient and diffusion kurtosis indices: preliminary experience in fresh liver explants. Magnetic Resonance Imaging, 2012, 30, 1534-1540.	1.8	83
44	Magnetic Resonance Characterization of Porous Media Using Diffusion through Internal Magnetic Fields. Materials, 2012, 5, 590-616.	2.9	16
45	A versatile flow phantom for intravoxel incoherent motion MRI. Magnetic Resonance in Medicine, 2012, 67, 1710-1720.	3.0	45
46	Interstitial fluid pressure correlates with intravoxel incoherent motion imaging metrics in a mouse mammary carcinoma model. NMR in Biomedicine, 2012, 25, 787-794.	2.8	43
47	High-resolution human cervical spinal cord imaging at 7T. NMR in Biomedicine, 2012, 25, 891-899.	2.8	59
48	Optimization of b-value sampling for diffusion-weighted imaging of the kidney. Magnetic Resonance in Medicine, 2012, 67, 89-97.	3.0	98
49	Perspectives on Porous Media MR in Clinical MRI. AIP Conference Proceedings, 2011, , .	0.4	2
50	Comparison of Biexponential and Monoexponential Model of Diffusion Weighted Imaging in Evaluation of Renal Lesions. Investigative Radiology, 2011, 46, 285-291.	6.2	150
51	Intravoxel incoherent motion imaging of tumor microenvironment in locally advanced breast cancer. Magnetic Resonance in Medicine, 2011, 65, 1437-1447.	3.0	181
52	Diffusion-weighted imaging of the brain at 7 T with echo-planar and turbo spin echo sequences: preliminary results. Magnetic Resonance Imaging, 2011, 29, 752-765.	1.8	10
53	Diagnosis of cirrhosis with intravoxel incoherent motion diffusion MRI and dynamic contrast-enhanced MRI alone and in combination: Preliminary experience. Journal of Magnetic Resonance Imaging, 2010, 31, 589-600.	3.4	336
54	Variability of Renal Apparent Diffusion Coefficients: Limitations of the Monoexponential Model for Diffusion Quantification. Radiology, 2010, 254, 783-792.	7.3	155

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55	T1 Hyperintense Renal Lesions: Characterization with Diffusion-weighted MR Imaging versus Contrast-enhanced MR Imaging. <i>Radiology</i> , 2009, 251, 796-807.	7.3	104
56	High-resolution MRI of internal field diffusion-weighting in trabecular bone. <i>NMR in Biomedicine</i> , 2009, 22, 436-448.	2.8	27
57	Diffusion-based MR methods for bone structure and evolution. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 28-39.	3.0	24
58	Diffusion-weighted MR Imaging of the Kidneys and the Urinary Tract. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2008, 16, 585-596.	1.1	44
59	Rapid measurement of three-dimensional diffusion tensor. <i>Journal of Chemical Physics</i> , 2007, 126, 154501.	3.0	11
60	Multiple-modulation multiple-echo magnetic resonance. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2007, 30A, 358-377.	0.5	9
61	A single-scan method for measuring flow along an arbitrary direction. <i>Journal of Magnetic Resonance</i> , 2007, 186, 11-16.	2.1	9
62	Spatial Heterogeneity Length Scales in Carbonate Rocks. <i>Applied Magnetic Resonance</i> , 2007, 32, 221-231.	1.2	13
63	Porous Materials. , 2006, , 340-358.		1
64	Multiple echo diffusion tensor acquisition technique. <i>Magnetic Resonance Imaging</i> , 2006, 24, 7-18.	1.8	23
65	Rapid measurement via decay-recovery decomposition: Applications in fringe field and distributed relaxation experiments. <i>Solid State Nuclear Magnetic Resonance</i> , 2006, 29, 232-241.	2.3	8
66	Fast imaging with the MMME sequence. <i>Journal of Magnetic Resonance</i> , 2006, 180, 18-28.	2.1	11
67	Anisotropy and penetration depth of MgB ₂ from ¹¹ B NMR. <i>New Journal of Physics</i> , 2006, 8, 274-274.	2.9	4
68	Stokes-Einstein Relation in Supercooled Aqueous Solutions of Glycerol. <i>Physical Review Letters</i> , 2006, 96, 145502.	7.8	72
69	Simultaneous Measurement of Diffusion along Multiple Directions. <i>Journal of the American Chemical Society</i> , 2004, 126, 16336-16337.	13.7	19
70	Hole-burning diffusion measurements in high magnetic field gradients. <i>Journal of Magnetic Resonance</i> , 2003, 163, 99-104.	2.1	15
71	NMR lineshape in the vortex lattice state of near-optimally doped YBa ₂ Cu ₃ O _{7-δ} . <i>Physica C: Superconductivity and Its Applications</i> , 2003, 388-389, 629-630.	1.2	2
72	Alkali ion "cryptand" interactions and their effects on electrolyte conductivity. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 2072-2081.	2.8	2

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73	Antiferromagnetism in the vortex cores of $\text{YBa}_2\text{Cu}_3\text{O}_7$. Physical Review B, 2003, 67, .	3.2	39
74	Polar signal averaging. Concepts in Magnetic Resonance, 2002, 14, 359-364.	1.3	0
75	Inductive shielding of NMR phase noise. Journal of Magnetic Resonance, 2002, 159, 190-194.	2.1	15
76	NMR Phase Noise in Bitter Magnets. Journal of Magnetic Resonance, 2001, 148, 309-313.	2.1	12
77	Spatially resolved electronic structure inside and outside the vortex cores of a high-temperature superconductor. Nature, 2001, 413, 501-504.	27.8	172
78	Lithium transport in a macrocyclic electrolyte. Physical Review B, 2001, 64, .	3.2	4
79	Progressive saturation NMR relaxation. Physical Review B, 2001, 64, .	3.2	17
80	Basic physical principles of body diffusion-weighted MRI. , 0, , 1-17.		0
81	Multiple-Echo Magnetic Resonance. , 0, , 31-48.		0