

# Evren Ozarslan

## List of Publications by Year in descending order

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76  
papers

4,057  
citations

136950

32  
h-index

123424

61  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2367  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized diffusion tensor imaging and analytical relationships between diffusion tensor imaging and high angular resolution diffusion imaging. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 955-965.	3.0	367
2	Resolution of complex tissue microarchitecture using the diffusion orientation transform (DOT). <i>NeuroImage</i> , 2006, 31, 1086-1103.	4.2	346
3	Mean apparent propagator (MAP) MRI: A novel diffusion imaging method for mapping tissue microstructure. <i>NeuroImage</i> , 2013, 78, 16-32.	4.2	320
4	Q-space trajectory imaging for multidimensional diffusion MRI of the human brain. <i>NeuroImage</i> , 2016, 135, 345-362.	4.2	256
5	A novel tensor distribution model for the diffusion-weighted MR signal. <i>NeuroImage</i> , 2007, 37, 164-176.	4.2	204
6	Conventions and nomenclature for double diffusion encoding NMR and MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 82-87.	3.0	154
7	Generalized scalar measures for diffusion MRI using trace, variance, and entropy. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 866-876.	3.0	138
8	A signal transformational framework for breaking the noise floor and its applications in MRI. <i>Journal of Magnetic Resonance</i> , 2009, 197, 108-119.	2.1	129
9	Microscopic anisotropy revealed by NMR double pulsed field gradient experiments with arbitrary timing parameters. <i>Journal of Chemical Physics</i> , 2008, 128, 154511.	3.0	116
10	Compartment shape anisotropy (CSA) revealed by double pulsed field gradient MR. <i>Journal of Magnetic Resonance</i> , 2009, 199, 56-67.	2.1	115
11	Clinical feasibility of using mean apparent propagator (MAP) MRI to characterize brain tissue microstructure. <i>NeuroImage</i> , 2016, 127, 422-434.	4.2	101
12	Observation of anomalous diffusion in excised tissue by characterizing the diffusion-time dependence of the MR signal. <i>Journal of Magnetic Resonance</i> , 2006, 183, 315-323.	2.1	96
13	From single-pulsed field gradient to double-pulsed field gradient MR: gleaning new microstructural information and developing new forms of contrast in MRI. <i>NMR in Biomedicine</i> , 2010, 23, 757-780.	2.8	95
14	A general framework to quantify the effect of restricted diffusion on the NMR signal with applications to double pulsed field gradient NMR experiments. <i>Journal of Chemical Physics</i> , 2009, 130, 104702.	3.0	93
15	MR diffusion "diffraction" phenomenon in multi-pulse-field-gradient experiments. <i>Journal of Magnetic Resonance</i> , 2007, 188, 285-294.	2.1	89
16	Noninvasive bipolar double-pulsed-field-gradient NMR reveals signatures for pore size and shape in polydisperse, randomly oriented, inhomogeneous porous media. <i>Journal of Chemical Physics</i> , 2010, 133, 044705.	3.0	71
17	Pore diameter mapping using double pulsed-field gradient MRI and its validation using a novel glass capillary array phantom. <i>Journal of Magnetic Resonance</i> , 2011, 208, 128-135.	2.1	70
18	Structural insights from high-resolution diffusion tensor imaging and tractography of the isolated rat hippocampus. <i>NeuroImage</i> , 2006, 32, 1499-1509.	4.2	69

#	ARTICLE	IF	CITATIONS
19	The effect of the diffusion time and pulse gradient duration ratio on the diffraction pattern and the structural information estimated from q-space diffusion MR: Experiments and simulations. <i>Journal of Magnetic Resonance</i> , 2008, 194, 230-236.	2.1	65
20	Detecting diffusion-diffraction patterns in size distribution phantoms using double-pulsed field gradient NMR: Theory and experiments. <i>Journal of Chemical Physics</i> , 2010, 132, 034703.	3.0	65
21	Analysis of the effects of noise, DWI sampling, and value of assumed parameters in diffusion MRI models. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1767-1780.	3.0	63
22	Measuring small compartmental dimensions with low-q angular double-PGSE NMR: The effect of experimental parameters on signal decay. <i>Journal of Magnetic Resonance</i> , 2009, 198, 15-23.	2.1	62
23	In vivo detection of microscopic anisotropy using quadruple pulsed-field gradient (qPFG) diffusion MRI on a clinical scanner. <i>NeuroImage</i> , 2013, 64, 229-239.	4.2	60
24	Measurement Tensors in Diffusion MRI: Generalizing the Concept of Diffusion Encoding. <i>Lecture Notes in Computer Science</i> , 2014, 17, 209-216.	1.3	55
25	The sensitivity of diffusion MRI to microstructural properties and experimental factors. <i>Journal of Neuroscience Methods</i> , 2021, 347, 108951.	2.5	53
26	Probabilistic Identification and Estimation of Noise (PIESNO): A self-consistent approach and its applications in MRI. <i>Journal of Magnetic Resonance</i> , 2009, 199, 94-103.	2.1	52
27	Accurate noninvasive measurement of cell size and compartment shape anisotropy in yeast cells using double-pulsed field gradient MR. <i>NMR in Biomedicine</i> , 2012, 25, 236-246.	2.8	51
28	Three-dimensional analytical magnetic resonance imaging phantom in the Fourier domain. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 430-436.	3.0	45
29	Mapping average axon diameters in porcine spinal cord white matter and rat corpus callosum using d-PFG MRI. <i>NeuroImage</i> , 2013, 78, 210-216.	4.2	45
30	Three-dimensional water diffusion in impermeable cylindrical tubes: theory versus experiments. <i>NMR in Biomedicine</i> , 2008, 21, 888-898.	2.8	44
31	Temporal scaling characteristics of diffusion as a new MRI contrast: Findings in rat hippocampus. <i>NeuroImage</i> , 2012, 60, 1380-1393.	4.2	38
32	Observation of restricted diffusion in the presence of a free diffusion compartment: Single- and double-PFG experiments. <i>Journal of Magnetic Resonance</i> , 2009, 200, 214-225.	2.1	36
33	Sparse and optimal acquisition design for diffusion MRI and beyond. <i>Medical Physics</i> , 2012, 39, 2499-2511.	3.0	35
34	Nuclear magnetic resonance characterization of general compartment size distributions. <i>New Journal of Physics</i> , 2011, 13, 015010.	2.9	31
35	Parsimonious Model Selection for Tissue Segmentation and Classification Applications: A Study Using Simulated and Experimental DTI Data. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1576-1584.	8.9	28
36	Anisotropy Induced by Macroscopic Boundaries: Surface-Normal Mapping using Diffusion-Weighted Imaging. <i>Biophysical Journal</i> , 2008, 94, 2809-2818.	0.5	24

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37	Remarks on q-space MR propagator in partially restricted, axially-symmetric, and isotropic environments. <i>Magnetic Resonance Imaging</i> , 2009, 27, 834-844.	1.8	24
38	Detecting compartmental non-Gaussian diffusion with symmetrized double-PFG MRI. <i>NMR in Biomedicine</i> , 2015, 28, 1550-1556.	2.8	23
39	Influence of the Size and Curvedness of Neural Projections on the Orientationally Averaged Diffusion MR Signal. <i>Frontiers in Physics</i> , 2018, 6, .	2.1	22
40	NMR signal for particles diffusing under potentials: From path integrals and numerical methods to a model of diffusion anisotropy. <i>Physical Review E</i> , 2016, 93, 052602.	2.1	21
41	Variational denoising of diffusion weighted MRI. <i>Inverse Problems and Imaging</i> , 2009, 3, 625-648.	1.1	21
42	Double pulsed field gradient (double-PFG) MR imaging (MRI) as a means to measure the size of plant cells. <i>Magnetic Resonance in Chemistry</i> , 2011, 49, S79-84.	1.9	19
43	Precise Inference and Characterization of Structural Organization (PICASO) of tissue from molecular diffusion. <i>NeuroImage</i> , 2017, 146, 452-473.	4.2	17
44	A system and mathematical framework to model shear flow effects in biomedical DWI imaging and spectroscopy. <i>NMR in Biomedicine</i> , 2010, 23, 734-744.	2.8	15
45	Dynamics of local magnetization in the eigenbasis of the Bloch-Torrey operator. <i>Journal of Chemical Physics</i> , 2017, 146, 124201.	3.0	14
46	Bayesian uncertainty quantification in linear models for diffusion MRI. <i>NeuroImage</i> , 2018, 175, 272-285.	4.2	14
47	Orientationally-averaged diffusion-attenuated magnetic resonance signal for locally-anisotropic diffusion. <i>Scientific Reports</i> , 2019, 9, 4899.	3.3	14
48	Enforcing necessary non-negativity constraints for common diffusion MRI models using sum of squares programming. <i>NeuroImage</i> , 2020, 209, 116405.	4.2	13
49	Effective Potential for Magnetic Resonance Measurements of Restricted Diffusion. <i>Frontiers in Physics</i> , 2017, 5, .	2.1	12
50	Multi-Fiber Reconstruction Using Probabilistic Mixture Models for Diffusion MRI Examinations of the Brain. <i>Mathematics and Visualization</i> , 2017, , 283-308.	0.6	11
51	Computing the orientational-average of diffusion-weighted MRI signals: a comparison of different techniques. <i>Scientific Reports</i> , 2021, 11, 14345.	3.3	10
52	Q-space trajectory imaging with positivity constraints (QTI+). <i>NeuroImage</i> , 2021, 238, 118198.	4.2	10
53	On the generalizability of diffusion MRI signal representations across acquisition parameters, sequences and tissue types: Chronicles of the MEMENTO challenge. <i>NeuroImage</i> , 2021, 240, 118367.	4.2	10
54	Asymmetric Orientation Distribution Functions (AODFs) revealing intravoxel geometry in diffusion MRI. <i>Magnetic Resonance Imaging</i> , 2018, 49, 145-158.	1.8	9

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55	Simple Harmonic Oscillator Based Reconstruction and Estimation for One-Dimensional q-Space Magnetic Resonance (1D-SHORE). Applied and Numerical Harmonic Analysis, 2013, , 373-399.	0.3	9
56	Characterization of Anomalous Diffusion from MR Signal may be a New Probe to Tissue Microstructure. , 2006, 2006, 2256-9.		8
57	Conceptual foundations of diffusion in magnetic resonance. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2013, 42, 116-129.	0.5	8
58	Characterizing magnetic resonance signal decay due to gaussian diffusion: The path integral approach and a convenient computational method. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2015, 44, 203-213.	0.5	8
59	Fast Orientation Mapping from HARDI. Lecture Notes in Computer Science, 2005, 8, 156-163.	1.3	7
60	Multimodal integration of diffusion MRI for better characterization of tissue biology. NMR in Biomedicine, 2019, 32, e3939.	2.8	6
61	Introduction to Diffusion MR. , 2014, , 3-9.		6
62	A multivariate hypothesis testing framework for tissue clustering and classification of DTI data. NMR in Biomedicine, 2009, 22, 716-729.	2.8	4
63	Gaussian process regression can turn non-uniform and undersampled diffusion MRI data into diffusion spectrum imaging. , 2017, , .		4
64	Magnetic Resonance Assessment of Effective Confinement Anisotropy with Orientationally-Averaged Single and Double Diffusion Encoding. Mathematics and Visualization, 2021, , 203-223.	0.6	4
65	Applying positivity constraints to q-space trajectory imaging: The QTI+ implementation. SoftwareX, 2022, 18, 101030.	2.6	4
66	Using the Wild Bootstrap to Quantify Uncertainty in Mean Apparent Propagator MRI. Frontiers in Neuroinformatics, 2019, 13, 43.	2.5	3
67	Elucidating Intravoxel Geometry in Diffusion-MRI: Asymmetric Orientation Distribution Functions (AODFs) Revealed by a Cone Model. Lecture Notes in Computer Science, 2015, , 231-238.	1.3	3
68	A Mixture of Wisharts (MOW) Model for Multifiber Reconstruction. Mathematics and Visualization, 2009, , 39-56.	0.6	3
69	The direction-dependence of apparent water exchange rate in human white matter. NeuroImage, 2022, 247, 118831.	4.2	3
70	Multidimensional Diffusion MRI Methods With Confined Subdomains. Frontiers in Physics, 2022, 10, .	2.1	3
71	Higher Rank Tensors in Diffusion MRI. Mathematics and Visualization, 2006, , 177-187.	0.6	2
72	A CONTINUOUS MIXTURE OF TENSORS MODEL FOR DIFFUSION-WEIGHTED MR SIGNAL RECONSTRUCTION. , 2007, 4, 772-775.		2

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73	Introduction to Diffusion MR. , 2009, , 2-10.		2
74	Diffusion-Weighted Magnetic Resonance Signal for General Gradient Waveforms: Multiple Correlation Function Framework, Path Integrals, and Parallels Between Them. Mathematics and Visualization, 2015, , 3-19.	0.6	1
75	Anatomical Connectivity in the Central Nervous System Revealed by Diffusion Tensor Magnetic Resonance Imaging (DT-MRI). Biocomputing, 2004, , 145-169.	0.2	0
76	Characterization of Anomalous Diffusion from MR Signal may be a New Probe to Tissue Microstructure. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0