

Robert F Dougherty

List of Publications by Year in descending order

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46
papers

8,139
citations

94269

37
h-index

233125

45
g-index

46
all docs

46
docs citations

46
times ranked

9466
citing authors

#	ARTICLE	IF	CITATIONS
1	Resting-State Functional Connectivity Reflects Structural Connectivity in the Default Mode Network. <i>Cerebral Cortex</i> , 2009, 19, 72-78.	1.6	1,915
2	Tract Profiles of White Matter Properties: Automating Fiber-Tract Quantification. <i>PLoS ONE</i> , 2012, 7, e49790.	1.1	669
3	Retinotopy and Functional Subdivision of Human Areas MT and MST. <i>Journal of Neuroscience</i> , 2002, 22, 7195-7205.	1.7	570
4	Visual field representations and locations of visual areas V1/2/3 in human visual cortex. <i>Journal of Vision</i> , 2003, 3, 1.	0.1	443
5	Children's Reading Performance is Correlated with White Matter Structure Measured by Diffusion Tensor Imaging. <i>Cortex</i> , 2005, 41, 354-363.	1.1	338
6	Development of white matter and reading skills. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3045-53.	3.3	288
7	Anatomical Properties of the Arcuate Fasciculus Predict Phonological and Reading Skills in Children. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 3304-3317.	1.1	284
8	Quantifying the local tissue volume and composition in individual brains with magnetic resonance imaging. <i>Nature Medicine</i> , 2013, 19, 1667-1672.	15.2	261
9	In vivo histology of the myelin g-ratio with magnetic resonance imaging. <i>NeuroImage</i> , 2015, 118, 397-405.	2.1	256
10	Visual field map clusters in human cortex. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005, 360, 693-707.	1.8	244
11	Temporal-callosal pathway diffusivity predicts phonological skills in children. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8556-8561.	3.3	213
12	Visual areas and spatial summation in human visual cortex. <i>Vision Research</i> , 2001, 41, 1321-1332.	0.7	185
13	Functional organization of human occipital-callosal fiber tracts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7350-7355.	3.3	173
14	White matter pathways in reading. <i>Current Opinion in Neurobiology</i> , 2007, 17, 258-270.	2.0	169
15	The Development of Cortical Sensitivity to Visual Word Forms. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 2387-2399.	1.1	159
16	Cortical Maps and White Matter Tracts following Long Period of Visual Deprivation and Retinal Image Restoration. <i>Neuron</i> , 2010, 65, 21-31.	3.8	140
17	Identifying the human optic radiation using diffusion imaging and fiber tractography. <i>Journal of Vision</i> , 2008, 8, 12-12.	0.1	138
18	Bound pool fractions complement diffusion measures to describe white matter micro and macrostructure. <i>NeuroImage</i> , 2011, 54, 1112-1121.	2.1	133

#	ARTICLE	IF	CITATIONS
19	Differential Sensitivity to Words and Shapes in Ventral Occipito-Temporal Cortex. <i>Cerebral Cortex</i> , 2007, 17, 1604-1611.	1.6	116
20	Frontostriatal White Matter Integrity Mediates Adult Age Differences in Probabilistic Reward Learning: Figure 1.. <i>Journal of Neuroscience</i> , 2012, 32, 5333-5337.	1.7	106
21	Frontoparietal white matter diffusion properties predict mental arithmetic skills in children. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22546-22551.	3.3	97
22	Cross-subject comparison of principal diffusion direction maps. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 1423-1431.	1.9	94
23	No Functional Magnetic Resonance Imaging Evidence for Brightness and Color Filling-In In Early Human Visual Cortex. <i>Journal of Neuroscience</i> , 2006, 26, 3634-3641.	1.7	88
24	ConTrack: Finding the most likely pathways between brain regions using diffusion tractography. <i>Journal of Vision</i> , 2008, 8, 15-15.	0.1	88
25	Plasticity and Stability of the Visual System in Human Achromatopsia. <i>Neuron</i> , 2012, 75, 393-401.	3.8	85
26	Reading impairment in a patient with missing arcuate fasciculus. <i>Neuropsychologia</i> , 2009, 47, 180-194.	0.7	74
27	Perceived Speed of Colored Stimuli. <i>Neuron</i> , 1999, 24, 893-899.	3.8	71
28	Psychophysical Indexes of Temporal Processing Abnormalities in Children With Developmental Dyslexia. <i>Developmental Neuropsychology</i> , 2004, 25, 321-354.	1.0	71
29	COMT genotype affects prefrontal white matter pathways in children and adolescents. <i>NeuroImage</i> , 2010, 53, 926-934.	2.1	62
30	Dichotic pitch. <i>NeuroReport</i> , 1998, 9, 3001-3005.	0.6	61
31	False discovery rate analysis of brain diffusion direction maps. <i>Annals of Applied Statistics</i> , 2008, 2, 153-175.	0.5	61
32	Quantitative analysis of the myelin g-ratio from electron microscopy images of the macaque corpus callosum. <i>Data in Brief</i> , 2015, 4, 368-373.	0.5	56
33	Empirical null and false discovery rate analysis in neuroimaging. <i>NeuroImage</i> , 2009, 44, 71-82.	2.1	53
34	Occipital-Callosal Pathways in Children: Validation and Atlas Development. <i>Annals of the New York Academy of Sciences</i> , 2005, 1064, 98-112.	1.8	49
35	Abnormal white matter properties in adolescent girls with anorexia nervosa. <i>NeuroImage: Clinical</i> , 2015, 9, 648-659.	1.4	48
36	Contrast responsivity in MT+ correlates with phonological awareness and reading measures in children. <i>NeuroImage</i> , 2007, 37, 1396-1406.	2.1	47

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37	Visual Feature-Tolerance in the Reading Network. <i>Neuron</i> , 2011, 71, 941-953.	3.8	43
38	Diffusion MRI microstructure models with in vivo human brain Connectome data: results from a multi-group comparison. <i>NMR in Biomedicine</i> , 2017, 30, e3734.	1.6	33
39	Aging-Resilient Associations between the Arcuate Fasciculus and Vocabulary Knowledge: Microstructure or Morphology?. <i>Journal of Neuroscience</i> , 2016, 36, 7210-7222.	1.7	27
40	White matter structure in the uncinate fasciculus: Implications for socio-affective deficits in Autism Spectrum Disorder. <i>Psychiatry Research - Neuroimaging</i> , 2016, 255, 66-74.	0.9	27
41	Think Global, Act Local; Projectome Estimation with BlueMatter. <i>Lecture Notes in Computer Science</i> , 2009, 12, 861-868.	1.0	26
42	Group Comparison of Eigenvalues and Eigenvectors of Diffusion Tensors. <i>Journal of the American Statistical Association</i> , 2010, 105, 588-599.	1.8	22
43	L/M Speed-Matching Ratio Predicts Reading in Children. <i>Optometry and Vision Science</i> , 2007, 84, 229-236.	0.6	20
44	Profiles of aberrant white matter microstructure in fragile X syndrome. <i>NeuroImage: Clinical</i> , 2016, 11, 133-138.	1.4	20
45	Disrupted fornix integrity in children with chromosome 22q11.2 deletion syndrome. <i>Psychiatry Research - Neuroimaging</i> , 2015, 232, 106-114.	0.9	14
46	Computational neuroimaging: maps and tracks in the human brain. , 2006, 6057, 605701.		2