

Andrew L Alexander

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92 papers	5,550 citations	32 h-index	74 g-index
104 ext. papers	6,517 ext. citations	5.5 avg, IF	5.43 L-index

#	Paper	IF	Citations
92	Diffusion tensor imaging of the brain. <i>Neurotherapeutics</i> , 2007 , 4, 316-29	6.4	1673
91	Analysis of partial volume effects in diffusion-tensor MRI. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 770-80	4.4	536
90	Diffusion tensor imaging of the corpus callosum in Autism. <i>NeuroImage</i> , 2007 , 34, 61-73	7.9	498
89	Characterization of cerebral white matter properties using quantitative magnetic resonance imaging stains. <i>Brain Connectivity</i> , 2011 , 1, 423-46	2.7	292
88	Comparison of gradient encoding schemes for diffusion-tensor MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 13, 769-80	5.6	257
87	Longitudinal changes in cortical thickness in autism and typical development. <i>Brain</i> , 2014 , 137, 1799-812	11.2	239
86	A geometric analysis of diffusion tensor measurements of the human brain. <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 283-91	4.4	173
85	Elimination of eddy current artifacts in diffusion-weighted echo-planar images: the use of bipolar gradients. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 1016-21	4.4	151
84	Age effects and sex differences in human brain white matter of young to middle-aged adults: A DTI, NODDI, and q-space study. <i>NeuroImage</i> , 2016 , 128, 180-192	7.9	103
83	Associations between white matter microstructure and amyloid burden in preclinical Alzheimer's disease: A multimodal imaging investigation. <i>NeuroImage: Clinical</i> , 2014 , 4, 604-14	5.3	94
82	Mapping an index of the myelin g-ratio in infants using magnetic resonance imaging. <i>NeuroImage</i> , 2016 , 132, 225-237	7.9	90
81	Association of Amyloid Pathology With Myelin Alteration in Preclinical Alzheimer Disease. <i>JAMA Neurology</i> , 2017 , 74, 41-49	17.2	89
80	Comparison of diffusion tensor imaging measurements at 3.0 T versus 1.5 T with and without parallel imaging. <i>Neuroimaging Clinics of North America</i> , 2006 , 16, 299-309, xi	3	74
79	Functional Connectivity within the Primate Extended Amygdala Is Heritable and Associated with Early-Life Anxious Temperament. <i>Journal of Neuroscience</i> , 2018 , 38, 7611-7621	6.6	72
78	Microstructural white matter alterations in preclinical Alzheimer's disease detected using free water elimination diffusion tensor imaging. <i>PLoS ONE</i> , 2017 , 12, e0173982	3.7	71
77	Optimization of a free water elimination two-compartment model for diffusion tensor imaging. <i>NeuroImage</i> , 2014 , 103, 323-333	7.9	71
76	Intergenerational neural mediators of early-life anxious temperament. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9118-22	11.5	59

75	A diffusion tensor brain template for rhesus macaques. <i>NeuroImage</i> , 2012 , 59, 306-18	7.9	57
74	Connectivity between the central nucleus of the amygdala and the bed nucleus of the stria terminalis in the non-human primate: neuronal tract tracing and developmental neuroimaging studies. <i>Brain Structure and Function</i> , 2017 , 222, 21-39	4	53
73	Atypical development of white matter microstructure of the corpus callosum in males with autism: a longitudinal investigation. <i>Molecular Autism</i> , 2015 , 6, 15	6.5	53
72	Intracranial black-blood MR angiography with high-resolution 3D fast spin echo. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 298-310	4.4	51
71	Overexpressing Corticotropin-Releasing Factor in the Primate Amygdala Increases Anxious Temperament and Alters Its Neural Circuit. <i>Biological Psychiatry</i> , 2016 , 80, 345-55	7.9	49
70	Corpus Callosum Area in Children and Adults with Autism. <i>Research in Autism Spectrum Disorders</i> , 2013 , 7, 221-234	3	49
69	The application of magnetization transfer to MR angiography with reduced total power. <i>Magnetic Resonance in Medicine</i> , 1995 , 34, 283-6	4.4	49
68	White matter microstructure in late middle-age: Effects of apolipoprotein E4 and parental family history of Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2014 , 4, 730-42	5.3	47
67	Gut microbiome populations are associated with structure-specific changes in white matter architecture. <i>Translational Psychiatry</i> , 2018 , 8, 6	8.6	43
66	Microbubbles as novel pressure-sensitive MR contrast agents. <i>Magnetic Resonance in Medicine</i> , 1996 , 35, 801-6	4.4	39
65	Age-dependent differences in brain tissue microstructure assessed with neurite orientation dispersion and density imaging. <i>Neurobiology of Aging</i> , 2016 , 43, 79-88	5.6	39
64	Longitudinal processing speed impairments in males with autism and the effects of white matter microstructure. <i>Neuropsychologia</i> , 2014 , 53, 137-45	3.2	35
63	Optimized visualization of vessels in contrast enhanced intracranial MR angiography. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 873-82	4.4	35
62	MPnRAGE: A technique to simultaneously acquire hundreds of differently contrasted MPnRAGE images with applications to quantitative T1 mapping. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1040-53 ^{4.4}		35
61	Evaluation of striatonigral connectivity using probabilistic tractography in Parkinson's disease. <i>NeuroImage: Clinical</i> , 2017 , 16, 557-563	5.3	32
60	Sleep reverts changes in human gray and white matter caused by wake-dependent training. <i>NeuroImage</i> , 2016 , 129, 367-377	7.9	32
59	Optimizing the intrinsic parallel diffusivity in NODDI: An extensive empirical evaluation. <i>PLoS ONE</i> , 2019 , 14, e0217118	3.7	31
58	A diffusion-tensor-based white matter atlas for rhesus macaques. <i>PLoS ONE</i> , 2014 , 9, e107398	3.7	25

57	A three-coil comparison for MR angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2000 , 11, 458-68	5.6	21
56	Altered Uncinate Fasciculus Microstructure in Childhood Anxiety Disorders in Boys But Not Girls. <i>American Journal of Psychiatry</i> , 2019 , 176, 208-216	11.9	21
55	Free water elimination diffusion tractography: A comparison with conventional and fluid-attenuated inversion recovery, diffusion tensor imaging acquisitions. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 1572-81	5.6	20
54	Robust Motion Correction Strategy for Structural MRI in Unsedated Children Demonstrated with Three-dimensional Radial MPnRAGE. <i>Radiology</i> , 2018 , 289, 509-516	20.5	19
53	A generalized k-sampling scheme for 3D fast spin echo. <i>Journal of Magnetic Resonance Imaging</i> , 2000 , 11, 549-58	5.6	19
52	Removal of cerebrospinal fluid partial volume effects in quantitative magnetization transfer imaging using a three-pool model with nonexchanging water component. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 1317-26	4.4	17
51	Dorsal Amygdala Neurotrophin-3 Decreases Anxious Temperament in Primates. <i>Biological Psychiatry</i> , 2019 , 86, 881-889	7.9	13
50	Investigating the Microstructural Correlation of White Matter in Autism Spectrum Disorder. <i>Brain Connectivity</i> , 2016 , 6, 415-33	2.7	11
49	Changes in Endogenous Dopamine Induced by Methylphenidate Predict Functional Connectivity in Nonhuman Primates. <i>Journal of Neuroscience</i> , 2019 , 39, 1436-1444	6.6	11
48	Fusiform correlates of facial memory in autism. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2013 , 3, 348-71	2.3	10
47	The Relationship Between the Uncinate Fasciculus and Anxious Temperament Is Evolutionarily Conserved and Sexually Dimorphic. <i>Biological Psychiatry</i> , 2019 , 86, 890-898	7.9	9
46	Scalable Brain Network Construction on White Matter Fibers. <i>Proceedings of SPIE</i> , 2011 , 7962,	1.7	9
45	A median filter for 3D FAST spin echo black blood images of cerebral vessels. <i>Magnetic Resonance in Medicine</i> , 2000 , 43, 310-3	4.4	8
44	4D hyperspherical harmonic (HyperSPHARM) representation of surface anatomy: a holistic treatment of multiple disconnected anatomical structures. <i>Medical Image Analysis</i> , 2015 , 22, 89-101	15.4	7
43	Three-dimensional motion-corrected T relaxometry with MPnRAGE. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2400-2411	4.4	6
42	WIDE RANGE ACHIEVEMENT TEST IN AUTISM SPECTRUM DISORDER: TEST-RETEST STABILITY. <i>Psychological Reports</i> , 2015 , 116, 674-84	1.6	5
41	Diffeomorphic metric mapping and probabilistic atlas generation of hybrid diffusion imaging based on BFOR signal basis. <i>Medical Image Analysis</i> , 2014 , 18, 1002-14	15.4	4
40	Temporal frequency analysis of dynamic MRI techniques. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 550-6	4.4	4

39	Conventional and quantitative MRI in a novel feline model of demyelination and endogenous remyelination. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, 1304-1311	5.6	4
38	A 16-year study of longitudinal volumetric brain development in males with autism. <i>NeuroImage</i> , 2021 , 236, 118067	7.9	4
37	Genetic and environmental influences of variation in diffusion MRI measures of white matter microstructure. <i>Brain Structure and Function</i> , 2021 , 1	4	4
36	Early microstructure of white matter associated with infant attention. <i>Developmental Cognitive Neuroscience</i> , 2020 , 45, 100815	5.5	3
35	Simultaneous multi-slice image reconstruction using regularized image domain split slice-GRAPPA for diffusion MRI. <i>Medical Image Analysis</i> , 2021 , 70, 102000	15.4	3
34	Convergent microstructural brain changes across genetic models of autism spectrum disorder-A pilot study. <i>Psychiatry Research - Neuroimaging</i> , 2019 , 283, 83-91	2.9	3
33	Physical activity and cognitive and imaging biomarkers of Alzheimer's disease in down syndrome. <i>Neurobiology of Aging</i> , 2021 , 107, 118-127	5.6	3
32	Differential effects of two MRI contrast agents on the integrity and distribution of rAAV2 and rAAV5 in the rat striatum. <i>Molecular Therapy - Methods and Clinical Development</i> , 2014 , 1, 4	6.4	2
31	Magnetic resonance angiography with sliding interleaved projection reconstruction (SLIPR) acquisition. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 10, 569-75	5.6	2
30	White matter microstructure associations with episodic memory in adults with Down syndrome: a tract-based spatial statistics study. <i>Journal of Neurodevelopmental Disorders</i> , 2021 , 13, 17	4.6	2
29	FreeSurfer based cortical mapping and T1-relaxometry with MPnRAGE: Test-retest reliability with and without retrospective motion correction. <i>NeuroImage</i> , 2021 , 242, 118447	7.9	2
28	White matter microstructure and episodic memory in adults with down syndrome: A Tract-Based Spatial Statistics (TBSS) Study. <i>Alzheimer's and Dementia</i> , 2020 , 16, e044673	1.2	1
27	IC-P-128: Alterations in myelin content are related to cognitive performance in nondemented older adults: Findings from the wisconsin registry for Alzheimer's prevention study 2015 , 11, P87-P87		1
26	P1-199: ApoE-e4 is associated with altered myelin content in preclinical ad 2015 , 11, P425-P425		1
25	A 4D hyperspherical interpretation of q-space. <i>Medical Image Analysis</i> , 2015 , 21, 15-28	15.4	1
24	SIMULATING CONVECTION-ENHANCED DELIVERY IN THE PUTAMEN USING PROBABILISTIC TRACTOGRAPHY 2011 , 2011, 787-790	1.5	1
23	Evidence for normal extra-axial cerebrospinal fluid volume in autistic males from middle childhood to adulthood. <i>NeuroImage</i> , 2021 , 240, 118387	7.9	1
22	The Connectomes: Methods of White Matter Tractography and Contributions of Resting State fMRI. <i>Seminars in Ultrasound, CT and MRI</i> , 2021 , 42, 507-522	1.7	1

21	Geodesic path differences in neural networks in the Alzheimer's disease connectome project. <i>Alzheimer's and Dementia</i> , 2020 , 16, e047284	1.2	O
20	Test-retest reliability of FreeSurfer-derived volume, area and cortical thickness from MPRAGE and MP2RAGE brain MRI images. <i>NeuroImage Reports</i> , 2022 , 2, 100086		O
19	Contrasting alterations between cortical and subcortical myelin across age, AD diagnosis, and amyloid and tau pathology as assessed by quantitative R1 mapping. <i>Alzheimer's and Dementia</i> , 2020 , 16, e046993	1.2	
18	Alzheimer's pathologic change indexed by CSF B-amyloid42 associates with longitudinal alterations in myelin content. <i>Alzheimer's and Dementia</i> , 2020 , 16, e047629	1.2	
17	IC-P-096: Insulin resistance is associated with altered microstructure in the medial temporal lobe and fornix of cognitively healthy APOE4 carriers 2015 , 11, P66-P67		
16	P1-204: Insulin resistance is associated with altered microstructure in the medial temporal lobe and fornix of cognitively healthy ApoE 4 carriers 2015 , 11, P427-P428		
15	P4-264: Amyloid pathology is associated with extensive myelin alteration in preclinical Alzheimer's disease: New insights into disease process with novel brain imaging 2015 , 11, P885-P885		
14	P3-156: Elevated cardiovascular risk is associated with altered myelin content 2015 , 11, P688-P688		
13	P4-262: Neuroinflammation in preclinical Alzheimer's disease is associated with parahippocampal pathology and memory deficits 2015 , 11, P883-P884		
12	White matter microstructure associations to amyloid burden in adults with Down syndrome.. <i>NeuroImage: Clinical</i> , 2021 , 33, 102908	5.3	
11	Longitudinal Assessment of Early-Life White Matter Development with Quantitative Relaxometry in Nonhuman Primates.. <i>NeuroImage</i> , 2022 , 118989	7.9	
10	O1-12-05: Amyloid Deposition in the Posterior Cingulate is Associated with Altered Microstructure in Cognitively Asymptomatic Individuals: Findings From the Wrap Study 2016 , 12, P207-P207		
9	IC-P-069: Effects of Kibra Polymorphism on White Matter Integrity: Findings from The Wisconsin Registry for Alzheimer's Prevention 2016 , 12, P54-P55		
8	P3-084: Effects of Kibra Polymorphism on White Matter Integrity: Findings from the Wisconsin Registry for Alzheimer's Prevention 2016 , 12, P850-P850		
7	P4-579: LOWER NEURITE DENSITY AND ORIENTATION DISPERSION WITHIN GRAY AND WHITE MATTER IN THE ALZHEIMER'S DISEASE PATHOLOGIC FRAMEWORK 2019 , 15, P1542-P1543		
6	IC-P-103: RELATIONSHIPS BETWEEN P-TAU AND CHANGES IN MYELIN CONTENT AND COGNITIVE PERFORMANCE 2019 , 15, P89-P90		
5	IC-P-109: LOWER ARTERIAL BLOOD FLOW AND HIGHER PULSATILITY INDEX ARE ASSOCIATED WITH NEURONAL INJURY 2019 , 15, P93-P95		
4	IC-P-081: CSF MARKERS OF NEURODEGENERATION ARE ASSOCIATED WITH QUANTITATIVE T1 2019 , 15, P72-P73		

- 3 P4-583: MICROSTRUCTURAL ALTERATIONS WITH OLDER AGE EVALUATED USING THE NODDI MODEL IN A LARGE GROUP OF COGNITIVELY UNIMPAIRED INDIVIDUALS **2019**, 15, P1544-P1545
- 2 IC-P-180: QUANTITATIVE T1 IN ALZHEIMER'S DISEASE **2018**, 14, P151-P151
- 1 P1-471: QUANTITATIVE T1 IN ALZHEIMER'S DISEASE **2018**, 14, P503-P503