Alex D Leow

List of Publications by Year
in descending order

133 papers	6,200 citations	71061 41 h-index	76872 74 g-index
144 all docs	144 docs citations	144 times ranked	8609 citing authors

#	Article	IF	Citations
1	Impact of interventions targeting anxiety and depression in adults with asthma. Journal of Asthma, 2022, 59, 273-287.	0.9	24
2	Network Diffusion Embedding Reveals Transdiagnostic Subnetwork Disruption and Potential Treatment Targets in Internalizing Psychopathologies. Cerebral Cortex, 2022, 32, 1823-1839.	1.6	1
3	Inferring excitation-inhibition dynamics using a maximum entropy model unifying brain structure and function. Network Neuroscience, 2022, 6, 420-444.	1.4	8
4	Revisiting power-law estimation with applications to real-world human typing dynamics. Physica A: Statistical Mechanics and Its Applications, 2022, 599, 127384.	1.2	1
5	Structure-Preserving Graph Kernel for Brain Network Classification. , 2022, , .		1
6	Predicting clinically relevant changes in bipolar disorder outside the clinic walls based on pervasive technology interactions via smartphone typing dynamics. Pervasive and Mobile Computing, 2022, 83, 101598.	2.1	10
7	Federated Multi-view Learning for Private Medical Data Integration and Analysis. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-23.	2.9	9
8	Potential depression and antidepressant-response biomarkers in human lymphoblast cell lines from treatment-responsive and treatment-resistant subjects: roles of SSRIs and omega-3 polyunsaturated fatty acids. Molecular Psychiatry, 2021, 26, 2402-2414.	4.1	6
9	rest2vec: Vectorizing the resting-state functional connectome using graph embedding. NeuroImage, 2021, 226, 117538.	2.1	1
10	Semantic Linkages of Obsessions From an International Obsessive-Compulsive Disorder Mobile App Data Set: Big Data Analytics Study. Journal of Medical Internet Research, 2021, 23, e25482.	2.1	5
11	Naturalistic smartphone keyboard typing reflects processing speed and executive function. Brain and Behavior, 2021, 11, e2363.	1.0	12
12	The Effects of Bipolar Disorder Risk on a Mobile Phone Keystroke Dynamics Based Biomarker of Brain Age. Frontiers in Psychiatry, 2021, 12, 739022.	1.3	8
13	Sex differences in the transcription of glutamate transporters in major depression and suicide.. Journal of Affective Disorders, 2020, 277, 244-252.	2.0	5
14	Connectome Signatures of Hyperexcitation in Cognitively Intact Middle-Aged Female APOE-Îµ4 Carriers. Cerebral Cortex, 2020, 30, 6350-6362.	1.6	11
15	A Generalized Framework of Pathlength Associated Community Estimation for Brain Structural Network. , 2020, 2020, 288-291.		1
16	Effects of mood and aging on keystroke dynamics metadata and their diurnal patterns in a large open-science sample: A BiAffect iOS study. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1007-1018.	2.2	46
17	Graph theoretical measures of the uncinate fasciculus subnetwork as predictors and correlates of treatment response in a transdiagnostic psychiatric cohort. Psychiatry Research - Neuroimaging, 2020, 299, 111064.	0.9	5
18	A systems biology approach to the digital behaviorome. Current Opinion in Systems Biology, 2020, 20, 8-16.	1.3	12

#	Article	IF	Citations
19	Real-Time Monitoring: A Key Element in Personalized Health and Precision Health. Focus (American) Tj ETQq1 1 0.784314 rgBT /Overlo	0.4	8
20	Multidimensional imaging techniques for prediction of treatment response in major depressive disorder. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 91, 38-48.	2.5	10
21	EEG Classification based on Image Configuration in Social Anxiety Disorder. , 2019, , .		6
22	247. BiAffect: Passive Monitoring of Psychomotor ActivityÂin Mood Disorders Using Mobile Keystroke Kinematics. Biological Psychiatry, 2019, 85, S102-S103.	0.7	2
23	From Return of Information to Return of Value: Ethical Considerations when Sharing Individual-Level Research Data. Journal of Alzheimer's Disease, 2019, 71, 1081-1088.	1.2	19
24	S6. Digital Cognitive Assessment in Psychiatry Research. Biological Psychiatry, 2019, 85, S299.	0.7	0
25	Differentiating weight-restored anorexia nervosa and body dysmorphic disorder using neuroimaging and psychometric markers. PLoS ONE, 2019, 14, e0213974.	1.1	13
26	TempoCave: Visualizing Dynamic Connectome Datasets to Support Cognitive Behavioral Therapy. , 2019, , .		3
27	Altered dynamic electroencephalography connectome phase-space features of emotion regulation in social anxiety. NeuroImage, 2019, 186, 338-349.	2.1	11
28	Brain Dynamics Through the Lens of Statistical Mechanics by Unifying Structure and Function. Lecture Notes in Computer Science, 2019, , 503-511.	1.0	7
29	NeuroCave: A web-based immersive visualization platform for exploring connectome datasets. Network Neuroscience, 2018, 2, 344-361.	1.4	18
30	Let your fingers do the talking: Passive typing instability predicts future mood outcomes. Bipolar Disorders, 2018, 20, 285-288.	1.1	33
31	The impact of depression medications on oral antidiabetic drug adherence in patients with diabetes and depression. Journal of Diabetes and Its Complications, 2018, 32, 492-500.	1.2	6
32	Baseline connectome modular abnormalities in the childhood phase of a longitudinal study on individuals with chromosome 22q11.2 deletion syndrome. Human Brain Mapping, 2018, 39, 232-248.	1.9	11
33	Thought Chart: tracking the thought with manifold learning during emotion regulation. Brain Informatics, 2018, 5, 7.	1.8	2
34	dpMood: Exploiting Local and Periodic Typing Dynamics for Personalized Mood Prediction. , 2018, , .		19
35	Cross-diagnostic Prediction of Dimensional Psychiatric Phenotypes in Anorexia Nervosa and Body Dysmorphic Disorder Using Multimodal Neuroimaging and Psychometric Data. Lecture Notes in Computer Science, 2018, , 92-99.	1.0	1
36	From Default Mode Network to the Basal Configuration: Sex Differences in the Resting-State Brain Connectivity as a Function of Age and Their Clinical Correlates. Frontiers in Psychiatry, 2018, 9, 365.	1.3	18

#	ARTICLE	IF	CITATIONS
37	Exact Combinatorial Inference for Brain Images. Lecture Notes in Computer Science, 2018, , 629-637.	1.0	10
38	Predicting Mood Disturbance Severity with Mobile Phone Keystroke Metadata: A BiAffect Digital Phenotyping Study. Journal of Medical Internet Research, 2018, 20, e241.	2.1	179
39	Risk of Diabetes Hospitalization or Diabetes Drug Intensification in Patients With Depression and Diabetes Using Second-Generation Antipsychotics Compared to Other Depression Therapies. primary care companion for CNS disorders, The, 2018, 20, .	0.2	3
40	Phase Angle Spatial Embedding (PhASE). Lecture Notes in Computer Science, 2018, , 367-374.	1.0	1
41	Improved clinical diffusion MRI reliability using a tensor distribution function compared to a single tensor. , 2017, , .		1
42	Fractional anisotropy derived from the diffusion tensor distribution function boosts power to detect Alzheimer's disease deficits. Magnetic Resonance in Medicine, 2017, 78, 2322-2333.	1.9	31
43	t-BNE: Tensor-based Brain Network Embedding. , 2017, , 189-197.		23
44	The significance of negative correlations in brain connectivity. Journal of Comparative Neurology, 2017, 525, 3251-3265.	0.9	53
45	944. Structural Connectivity Correlates of CBT and SSRI Response in a Transdiagnostic Sample: A Preliminary RDoC Study. Biological Psychiatry, 2017, 81, S382.	0.7	0
46	56. Connectomic Correlates of ECT Treatment and Response. Biological Psychiatry, 2017, 81, S23-S24.	0.7	0
47	DeepMood. , 2017, , .		96
48	Multi-view Clustering with Graph Embedding for Connectome Analysis. , 2017, , .		28
49	Investigating the separate and interactive associations of trauma and depression on brain structure: implications for cognition and aging. International Journal of Geriatric Psychiatry, 2017, 32, 1190-1199.	1.3	6
50	Canâ€™t Stop Remembering: Neural Decoding of Representations of the Deceased Predicts Subsequent Intrusive Thinking and Coping Strategies. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2017, 2, 384-385.	1.1	0
51	A Traffic Analysis Perspective on Communication in the Brain. , 2017, , .		2
52	Resting-state theta band connectivity and graph analysis in generalized social anxiety disorder. NeuroImage: Clinical, 2017, 13, 24-32.	1.4	64
53	Sequential Keystroke Behavioral Biometrics for Mobile User Identification via Multi-view Deep Learning. Lecture Notes in Computer Science, 2017, , 228-240.	1.0	29
54	481. Predicting Mood Disturbance Severity in Bipolar Subjects with Mobile Phone Keystroke Dynamics and Metadata. Biological Psychiatry, 2017, 81, S196.	0.7	4

#	Article	IF	Citations
55	Cognitive and connectome properties detectable through individual differences in graphomotor organization. Neuropsychologia, 2016, 85, 301-309.	0.7	22
56	Semi-supervised Tensor Factorization for Brain Network Analysis. Lecture Notes in Computer Science, 2016, , 17-32.	1.0	8
57	Thought Chart: Tracking Dynamic EEG Brain Connectivity with Unsupervised Manifold Learning. Lecture Notes in Computer Science, 2016, , 149-157.	1.0	7
58	Shared white matter alterations across emotional disorders: A voxel-based meta-analysis of fractional anisotropy. NeuroImage: Clinical, 2016, 12, 1022-1034.	1.4	116
59	Diffusion tensor distribution function metrics boost power to detect deficits in Alzheimer's disease. , 2016, , .		1
60	EEG based functional connectivity reflects cognitive load during emotion regulation. , 2016, , .		11
61	Aberrant pulvinar effective connectivity in generalized social anxiety disorder. Medicine (United) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.4	17
62	MRI-based brain atrophy rates in ADNI phase 2: acceleration and enrichment considerations for clinical trials. Neurobiology of Aging, 2016, 37, 26-37.	1.5	39
63	Intrinsic Geometry Visualization for the Interactive Analysis of Brain Connectivity Patterns. IS&T International Symposium on Electronic Imaging, 2016, 2016, 1-8.	0.3	5
64	The intrinsic geometry of the human brain connectome. Brain Informatics, 2015, 2, 197-210.	1.8	24
65	Measuring embeddedness: Hierarchical scale€dependent information exchange efficiency of the human brain connectome. Human Brain Mapping, 2015, 36, 3653-3665.	1.9	11
66	Multivariate analysis of eigenvalues and eigenvectors in tensor based morphometry. Proceedings of SPIE, 2015, , .	0.8	0
67	Brain Connectivity in Late-Life Depression and Aging Revealed by Network Analysis. American Journal of Geriatric Psychiatry, 2015, 23, 642-650.	0.6	20
68	Connectome signatures of neurocognitive abnormalities in euthymic bipolar I disorder. Journal of Psychiatric Research, 2015, 68, 37-44.	1.5	58
69	Identification of Discriminative Subgraph Patterns in fMRI Brain Networks in Bipolar Affective Disorder. Lecture Notes in Computer Science, 2015, , 105-114.	1.0	18
70	BRAINtrinsic: A Virtual Reality-Compatible Tool for Exploring Intrinsic Topologies of the Human Brain Connectome. Lecture Notes in Computer Science, 2015, , 67-76.	1.0	7
71	Neuroanatomical Correlates of Emotional Blunting in Behavioral Variant Frontotemporal Dementia and Early-Onset Alzheimer's Disease. Journal of Alzheimer's Disease, 2014, 41, 793-800.	1.2	20
72	Altered structural brain connectome in young adult fragile X premutation carriers. Human Brain Mapping, 2014, 35, 4518-4530.	1.9	15

#	Article	IF	Citations
73	Graph Theory Analysis of Cortical-Subcortical Networks in Late-Life Depression. American Journal of Geriatric Psychiatry, 2014, 22, 195-206.	0.6	78
74	Investigating brain community structure abnormalities in bipolar disorder using path length associated community estimation. Human Brain Mapping, 2014, 35, 2253-2264.	1.9	57
75	Brain growth rate abnormalities visualized in adolescents with autism. Human Brain Mapping, 2013, 34, 425-436.	1.9	51
76	Angular versus spatial resolution trade-offs for diffusion imaging under time constraints. Human Brain Mapping, 2013, 34, 2688-2706.	1.9	45
77	DTI tractography and white matter fiber tract characteristics in euthymic bipolar I patients and healthy control subjects. Brain Imaging and Behavior, 2013, 7, 129-139.	1.1	59
78	Regional brain volume differences in symptomatic and presymptomatic carriers of familial Alzheimer's disease mutations. Journal of Neurology, Neurosurgery and Psychiatry, 2013, 84, 154-162.	0.9	47
79	White matter microstructure in body dysmorphic disorder and its clinicalcorrelates. Psychiatry Research - Neuroimaging, 2013, 211, 132-140.	0.9	25
80	Abnormal Brain Network Organization in Body Dysmorphic Disorder. Neuropsychopharmacology, 2013, 38, 1130-1139.	2.8	48
81	Fractional Order Generalization of Anomalous Diffusion as a Multidimensional Extension of the Transmission Line Equation. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2013, 3, 432-441.	2.7	27
82	Impaired Inter-Hemispheric Integration in Bipolar Disorder Revealed with Brain Network Analyses. Biological Psychiatry, 2013, 73, 183-193.	0.7	136
83	Unbiased tensor-based morphometry: Improved robustness and sample size estimates for Alzheimer's disease clinical trials. NeuroImage, 2013, 66, 648-661.	2.1	103
84	White Matter Tract Integrity of Anterior Limb of Internal Capsule in Major Depression and Type 2 Diabetes. Neuropsychopharmacology, 2013, 38, 1451-1459.	2.8	41
85	Patterns of Brain Atrophy in Clinical Variants of Frontotemporal Lobar Degeneration. Dementia and Geriatric Cognitive Disorders, 2013, 35, 34-50.	0.7	42
86	Constructing the resting state structural connectome. Frontiers in Neuroinformatics, 2013, 7, 30.	1.3	26
87	Multi-resolutional Brain Network Filtering and Analysis via Wavelets on Non-Euclidean Space. Lecture Notes in Computer Science, 2013, 16, 643-651.	1.0	10
88	A Framework for Quantifying Node-Level Community Structure Group Differences in Brain Connectivity Networks. Lecture Notes in Computer Science, 2012, 15, 196-203.	1.0	20
89	Quantitative Tract-Specific Measures of Uncinate and Cingulum in Major Depression Using Diffusion Tensor Imaging. Neuropsychopharmacology, 2012, 37, 959-967.	2.8	107
90	Depressive Symptoms in Mild Cognitive Impairment Predict Greater Atrophy in Alzheimer's Disease-Related Regions. Biological Psychiatry, 2012, 71, 814-821.	0.7	135

#	Article	IF	Citations
91	Hierarchical Structural Mapping for Globally Optimized Estimation of Functional Networks. Lecture Notes in Computer Science, 2012, 15, 228-236.	1.0	5
92	Differential information content in staggered multiple shell hardi measured by the tensor distribution function. , 2011, , .		10
93	Accurate measurement of brain changes in longitudinal MRI scans using tensor-based morphometry. NeuroImage, 2011, 57, 5-14.	2.1	77
94	Apolipoprotein E Genotype is Associated with Temporal and Hippocampal Atrophy Rates in Healthy Elderly Adults: A Tensor-Based Morphometry Study1. Journal of Alzheimer's Disease, 2011, 23, 433-442.	1.2	65
95	Brain structure and obesity. Human Brain Mapping, 2010, 31, 353-364.	1.9	555
96	Comparing 3 T and 1.5 T MRI for tracking Alzheimer's disease progression with tensor–based morphometry. Human Brain Mapping, 2010, 31, 499-514.	1.9	66
97	A commonly carried allele of the obesity-related <i>FTO</i> gene is associated with reduced brain volume in the healthy elderly. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8404-8409.	3.3	227
98	Differentiating Prenatal Exposure to Methamphetamine and Alcohol versus Alcohol and Not Methamphetamine using Tensor-Based Brain Morphometry and Discriminant Analysis. Journal of Neuroscience, 2010, 30, 3876-3885.	1.7	64
99	Mapping Alzheimer's disease progression in 1309 MRI scans: Power estimates for different inter-scan intervals. NeuroImage, 2010, 51, 63-75.	2.1	79
100	Voxelwise genome-wide association study (vGWAS). NeuroImage, 2010, 53, 1160-1174.	2.1	239
101	Genome-wide analysis reveals novel genes influencing temporal lobe structure with relevance to neurodegeneration in Alzheimer's disease. NeuroImage, 2010, 51, 542-554.	2.1	141
102	How does angular resolution affect diffusion imaging measures?. NeuroImage, 2010, 49, 1357-1371.	2.1	70
103	Analyzing multi-fiber reconstruction in high angular resolution diffusion imaging using the tensor distribution function. , 2009, , .		5
104	White matter integrity measured by fractional anisotropy correlates poorly with actual individual fiber anisotropy. , 2009, , .		6
105	Detecting brain growth patterns in normal children using tensor–based morphometry. Human Brain Mapping, 2009, 30, 209-219.	1.9	73
106	Comparing registration methods for mapping brain change using tensor-based morphometry. Medical Image Analysis, 2009, 13, 679-700.	7.0	48
107	Segmenting crossing fiber geometries using fluid mechanics tensor distribution function tractography. , 2009, , .		0
108	Alzheimer's Disease Neuroimaging Initiative: A one-year follow up study using tensor-based morphometry correlating degenerative rates, biomarkers and cognition. NeuroImage, 2009, 45, 645-655.	2.1	159

#	Article	IF	Citations
109	Optimizing power to track brain degeneration in Alzheimer's disease and mild cognitive impairment with tensor-based morphometry: An ADNI study of 515 subjects. NeuroImage, 2009, 48, 668-681.	2.1	129
110	A Novel Measure of Fractional Anisotropy Based on the Tensor Distribution Function. Lecture Notes in Computer Science, 2009, 12, 845-852.	1.0	16
111	Fluid Registration of Diffusion Tensor Images Using Information Theory. IEEE Transactions on Medical Imaging, 2008, 27, 442-456.	5.4	98
112	3D characterization of brain atrophy in Alzheimer's disease and mild cognitive impairment using tensor-based morphometry. NeuroImage, 2008, 41, 19-34.	2.1	149
113	Tensor-based morphometry as a neuroimaging biomarker for Alzheimer's disease: An MRI study of 676 AD, MCI, and normal subjects. NeuroImage, 2008, 43, 458-469.	2.1	317
114	Asymmetric and symmetric unbiased image registration: Statistical assessment of performance. , 2008, 2008, .		12
115	Three-dimensional brain growth abnormalities in childhood-onset schizophrenia visualized by using tensor-based morphometry. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15979-15984.	3.3	113
116	Validating unbiased registration on longitudinal MRI scans from the Alzheimer&#x2019;S Disease neuroimaging initiative (ADNI). , 2008, , .		2
117	Probabilistic multi-tensor estimation using the Tensor Distribution Function. , 2008, , .		2
118	The tensor distribution function. , 2008, , .		0
119	Multimodal unbiased image matching via mutual information. , 2008, , .		1
120	Increased volume of the amygdala and hippocampus in bipolar patients treated with lithium. NeuroReport, 2008, 19, 221-224.	0.6	165
121	Tensor distribution function. Proceedings of SPIE, 2008, , .	0.8	0
122	Topology Preserving Log-Unbiased Nonlinear Image Registration: Theory and Implementation. , 2007, , .		34
123	Multiphase Segmentation of Deformation using Logarithmic Priors. , 2007, , .		4
124	3D pattern of brain abnormalities in Fragile X syndrome visualized using tensor-based morphometry. NeuroImage, 2007, 34, 924-938.	2.1	68
125	QUANTIFYING DEFORMATION USING INFORMATION THEORY: THE LOG-UNBIASED NONLINEAR REGISTRATION. , 2007, , .		1
126	Statistical Properties of Jacobian Maps and the Realization of Unbiased Large-Deformation Nonlinear Image Registration. IEEE Transactions on Medical Imaging, 2007, 26, 822-832.	5.4	174

#	Article	IF	Citations
127	Tracking Alzheimer's Disease. Annals of the New York Academy of Sciences, 2007, 1097, 183-214.	1.8	209
128	Longitudinal stability of MRI for mapping brain change using tensor-based morphometry. NeuroImage, 2006, 31, 627-640.	2.1	198
129	Landmark matching on the sphere using distance functions. , 2006, 2006, 450-453.		0
130	Inverse Consistent Mapping in 3D Deformable Image Registration: Its Construction and Statistical Properties. Lecture Notes in Computer Science, 2005, 19, 493-503.	1.0	144
131	Standard atlas space for C57BL/6J neonatal mouse brain. Anatomy and Embryology, 2005, 210, 245-263.	1.5	36
132	Structural MRI and Brain Development. International Review of Neurobiology, 2005, 67, 285-323.	0.9	86
133	A Hierarchical Graph Learning Model for Brain Network Regression Analysis. Frontiers in Neuroscience, 0, 16, .	1.4	4