Abraham Z Snyder

List of Publications by Year in Descending Order

150 papers	34,841 citations	63 h-index	175 g-index
175 ext. papers	42,378 ext. citations	8.4 avg, IF	7.3 L-index

#	Paper	IF	Citations
150	Tissue damage detected by quantitative gradient echo MRI correlates with clinical progression in non-relapsing progressive MS.. *Multiple Sclerosis Journal*, **2022**, 13524585211073761	5	0
149	Covariance and Correlation Analysis of Resting State Functional Magnetic Resonance Imaging Data Acquired in a Clinical Trial of Mindfulness-Based Stress Reduction and Exercise in Older Individuals.. *Frontiers in Neuroscience*, **2022**, 16, 825547	5.1	1
148	Accuracy and Reliability of Diffusion Imaging Models.. *NeuroImage*, **2022**, 119138	7.9	0
147	Cingulo-opercular control network and disused motor circuits joined in standby mode. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	6
146	Brain network reorganisation in an adolescent after bilateral perinatal strokes. *Lancet Neurology, The*, **2021**, 20, 255-256	24.1	7
145	Quantitative signal properties from standardized MRIs correlate with multiple sclerosis disability. *Annals of Clinical and Translational Neurology*, **2021**, 8, 1096-1109	5.3	1
144	Functional Connectivity of Vermis Correlates with Future Gait Impairments in Parkinson's Disease. *Movement Disorders*, **2021**, 36, 2559-2568	7	2
143	Opposed hemodynamic responses following increased excitation and parvalbumin-based inhibition. *Journal of Cerebral Blood Flow and Metabolism*, **2021**, 41, 841-856	7.3	8
142	Functional connectivity within glioblastoma impacts overall survival. *Neuro-Oncology*, **2021**, 23, 412-421	1	15
141	Resting-State Functional Connectivity Predicts STN DBS Clinical Response. *Movement Disorders*, **2021**, 36, 662-671	7	10
140	Prolonged ketamine infusion modulates limbic connectivity and induces sustained remission of treatment-resistant depression. *Psychopharmacology*, **2021**, 238, 1157-1169	4.7	2
139	Global waves synchronize the brain's functional systems with fluctuating arousal. *Science Advances*, **2021**, 7,	14.3	9
138	Brain activity is not only for thinking. *Current Opinion in Behavioral Sciences*, **2021**, 40, 130-136	4	8
137	Individualized Functional Subnetworks Connect Human Striatum and Frontal Cortex. *Cerebral Cortex*, **2021**,	5.1	1
136	Probabilistic flow in brain-wide activity. *NeuroImage*, **2020**, 223, 117321	7.9	1
135	Plasticity and Spontaneous Activity Pulses in Disused Human Brain Circuits. *Neuron*, **2020**, 107, 580-589.e6	13.9	49
134	Corrigendum to: Local Perturbations of Cortical Excitability Propagate Differentially Through Large-Scale Functional Networks. *Cerebral Cortex*, **2020**, 30, 3430-3430	5.1	78

133	Removal of high frequency contamination from motion estimates in single-band fMRI saves data without biasing functional connectivity. *NeuroImage*, **2020**, 217, 116866	7.9	26
132	Global motion detection and censoring in high-density diffuse optical tomography. *Human Brain Mapping*, **2020**, 41, 4093-4112	5.9	10
131	Default-mode network streams for coupling to language and control systems. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 17308-17319	11.5	47
130	Local Perturbations of Cortical Excitability Propagate Differentially Through Large-Scale Functional Networks. *Cerebral Cortex*, **2020**, 30, 3352-3369	5.1	9
129	Individual-specific functional connectivity of the amygdala: A substrate for precision psychiatry. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 3808-3818	11.5	49
128	Electrically coupled inhibitory interneurons constrain long-range connectivity of cortical networks. *NeuroImage*, **2020**, 215, 116810	7.9	5
127	Resting State Functional MRI for Presurgical Planning **2020**, 287-301		
126	Proteinopathy and longitudinal changes in functional connectivity networks in Parkinson disease. *Neurology*, **2020**, 94, e718-e728	6.5	12
125	Cognitive correlates of cerebellar resting-state functional connectivity in Parkinson disease. *Neurology*, **2020**, 94, e384-e396	6.5	13
124	Little Change in Functional Brain Networks Following Acute Levodopa in Drug-Naïve Parkinson's Disease. *Movement Disorders*, **2020**, 35, 499-503	7	6
123	Integrative and Network-Specific Connectivity of the Basal Ganglia and Thalamus Defined in Individuals. *Neuron*, **2020**, 105, 742-758.e6	13.9	74
122	Correction of respiratory artifacts in MRI head motion estimates. *NeuroImage*, **2020**, 208, 116400	7.9	74
121	Mindfulness, Education, and Exercise for age-related cognitive decline: Study protocol, pilot study results, and description of the baseline sample. *Clinical Trials*, **2020**, 17, 581-594	2.2	5
120	Aging and the encoding of changes in events: The role of neural activity pattern reinstatement. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 29346-29353	11.5	11
119	Mapping of the Language Network With Deep Learning. *Frontiers in Neurology*, **2020**, 11, 819	4.1	4
118	Hierarchical dynamics as a macroscopic organizing principle of the human brain. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 20890-20897	11.5	40
117	Mapping language function with task-based vs. resting-state functional MRI. *PLoS ONE*, **2020**, 15, e0236423	3.7	14
116	Regional, not global, functional connectivity contributes to isolated focal dystonia. *Neurology*, **2020**, 95, e2246-e2258	6.5	8

115	Organization of Propagated Intrinsic Brain Activity in Individual Humans. *Cerebral Cortex*, **2020**, 30, 1716-1734	5.1	21
114	A comparison of resting state functional magnetic resonance imaging to invasive electrocortical stimulation for sensorimotor mapping in pediatric patients. *NeuroImage: Clinical*, **2019**, 23, 101850	5.3	14
113	On time delay estimation and sampling error in resting-state fMRI. *NeuroImage*, **2019**, 194, 211-227	7.9	24
112	Emergent Functional Network Effects in Parkinson Disease. *Cerebral Cortex*, **2019**, 29, 2509-2523	5.1	26
111	Separability of calcium slow waves and functional connectivity during wake, sleep, and anesthesia. *Neurophotonics*, **2019**, 6, 035002	3.9	12
110	Spatiotemporal Structures of Time Lags in the Brain as Revealed by Magnetoencephalography **2019**,		1
109	The State of Resting State Networks. *Topics in Magnetic Resonance Imaging*, **2019**, 28, 189-196	2.3	16
108	Mapping Structure-Function Relationships in the Brain. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2019**, 4, 510-521	3.4	5
107	Restricted and Repetitive Behavior and Brain Functional Connectivity in Infants at Risk for Developing Autism Spectrum Disorder. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2019**, 4, 50-61	3.4	33
106	Quantitative positron emission tomography reveals regional differences in aerobic glycolysis within the human brain. *Journal of Cerebral Blood Flow and Metabolism*, **2019**, 39, 2096-2102	7.3	11
105	Cerebellar Functional Connectivity in Term- and Very Preterm-Born Infants. *Cerebral Cortex*, **2019**, 29, 1174-1184	5.1	16
104	Resting state signal latency predicts laterality in pediatric medically refractory temporal lobe epilepsy. *Childs Nervous System*, **2018**, 34, 901-910	1.7	11
103	Functional Brain Networks Are Dominated by Stable Group and Individual Factors, Not Cognitive or Daily Variation. *Neuron*, **2018**, 98, 439-452.e5	13.9	367
102	Effective Connectivity Measured Using Optogenetically Evoked Hemodynamic Signals Exhibits Topography Distinct from Resting State Functional Connectivity in the Mouse. *Cerebral Cortex*, **2018**, 28, 370-386	5.1	19
101	Spontaneous Infra-slow Brain Activity Has Unique Spatiotemporal Dynamics and Laminar Structure. *Neuron*, **2018**, 98, 297-305.e6	13.9	97
100	7T MRI subthalamic nucleus atlas for use with 3T MRI. *Journal of Medical Imaging*, **2018**, 5, 015002	2.6	9
99	A systematic meta-analysis of oxygen-to-glucose and oxygen-to-carbohydrate ratios in the resting human brain. *PLoS ONE*, **2018**, 13, e0204242	3.7	7
98	Spatial and Temporal Organization of the Individual Human Cerebellum. *Neuron*, **2018**, 100, 977-993.e7	13.9	127

97	Validation of diffusion tensor imaging measures of nigrostriatal neurons in macaques. *PLoS ONE*, **2018**, 13, e0202201	3.7	9
96	ESM-CT: a precise method for localization of DBS electrodes in CT images. *Journal of Neuroscience Methods*, **2018**, 308, 366-376	3	3
95	Integration of resting state functional MRI into clinical practice - A large single institution experience. *PLoS ONE*, **2018**, 13, e0198349	3.7	37
94	Joint Attention and Brain Functional Connectivity in Infants and Toddlers. *Cerebral Cortex*, **2017**, 27, 1709-1720	5.1	63
93	Frequency-specific electrophysiologic correlates of resting state fMRI networks. *NeuroImage*, **2017**, 149, 446-457	7.9	73
92	Adaptive smoothing based on Gaussian processes regression increases the sensitivity and specificity of fMRI data. *Human Brain Mapping*, **2017**, 38, 1438-1459	5.9	13
91	Visual experience sculpts whole-cortex spontaneous infraslow activity patterns through an Arc-dependent mechanism. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9952-E9961	11.5	10
90	Resting-state Functional Magnetic Resonance Imaging in Presurgical Functional Mapping: Sensorimotor Localization. *Neuroimaging Clinics of North America*, **2017**, 27, 621-633	3	41
89	Resting-state fMRI in sleeping infants more closely resembles adult sleep than adult wakefulness. *PLoS ONE*, **2017**, 12, e0188122	3.7	28
88	Interpreting temporal fluctuations in resting-state functional connectivity MRI. *NeuroImage*, **2017**, 163, 437-455	7.9	135
87	Precision Functional Mapping of Individual Human Brains. *Neuron*, **2017**, 95, 791-807.e7	13.9	524
86	Real-time motion analytics during brain MRI improve data quality and reduce costs. *NeuroImage*, **2017**, 161, 80-93	7.9	140
85	On the role of the corpus callosum in interhemispheric functional connectivity in humans. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 13278-13283	11.5	105
84	Data Quality Influences Observed Links Between Functional Connectivity and Behavior. *Cerebral Cortex*, **2017**, 27, 4492-4502	5.1	171
83	Quantitative hemodynamic PET imaging using image-derived arterial input function and a PET/MR hybrid scanner. *Journal of Cerebral Blood Flow and Metabolism*, **2017**, 37, 1435-1446	7.3	15
82	The Lag Structure of Intrinsic Activity is Focally Altered in High Functioning Adults with Autism. *Cerebral Cortex*, **2017**, 27, 1083-1093	5.1	30
81	Functional connectivity structure of cortical calcium dynamics in anesthetized and awake mice. *PLoS ONE*, **2017**, 12, e0185759	3.7	52
80	On the Stability of BOLD fMRI Correlations. *Cerebral Cortex*, **2017**, 27, 4719-4732	5.1	274

79	Oxygen Level and LFP in Task-Positive and Task-Negative Areas: Bridging BOLD fMRI and Electrophysiology. *Cerebral Cortex*, **2016**, 26, 346-57	5.1	30
78	Resting-State Network Complexity and Magnitude Are Reduced in Prematurely Born Infants. *Cerebral Cortex*, **2016**, 26, 322-333	5.1	104
77	Human cortical-hippocampal dialogue in wake and slow-wave sleep. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E6868-E6876	11.5	63
76	Heterogeneous Optimization Framework: Reproducible Preprocessing of Multi-Spectral Clinical MRI for Neuro-Oncology Imaging Research. *Neuroinformatics*, **2016**, 14, 305-17	3.2	5
75	The effects of hemodynamic lag on functional connectivity and behavior after stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2016**, 36, 2162-2176	7.3	66
74	Intrinsic Brain Activity and Resting State Networks **2016**, 1625-1676		3
73	Quantitative Amyloid Imaging in Autosomal Dominant Alzheimer's Disease: Results from the DIAN Study Group. *PLoS ONE*, **2016**, 11, e0152082	3.7	31
72	Disruptions of network connectivity predict impairment in multiple behavioral domains after stroke. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4367-76	11.5	290
71	N-methyl-D-aspartate receptor encephalitis mediates loss of intrinsic activity measured by functional MRI. *Journal of Neurology*, **2016**, 263, 1083-91	5.5	12
70	Dissociated functional connectivity profiles for motor and attention deficits in acute right-hemisphere stroke. *Brain*, **2016**, 139, 2024-38	11.2	54
69	Prediction of brain maturity in infants using machine-learning algorithms. *NeuroImage*, **2016**, 136, 1-9	7.9	79
68	CSF proteins and resting-state functional connectivity in Parkinson disease. *Neurology*, **2015**, 84, 2413-21	6.5	40
67	Functional System and Areal Organization of a Highly Sampled Individual Human Brain. *Neuron*, **2015**, 87, 657-70	13.9	498
66	Quantitative assessments of traumatic axonal injury in human brain: concordance of microdialysis and advanced MRI. *Brain*, **2015**, 138, 2263-77	11.2	38
65	Functional connectivity arises from a slow rhythmic mechanism. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E2527-35	11.5	40
64	Partial covariance based functional connectivity computation using Ledoit-Wolf covariance regularization. *NeuroImage*, **2015**, 121, 29-38	7.9	29
63	Partial volume correction in quantitative amyloid imaging. *NeuroImage*, **2015**, 107, 55-64	7.9	138
62	Eye position modulates retinotopic responses in early visual areas: a bias for the straight-ahead direction. *Brain Structure and Function*, **2015**, 220, 2587-601	4	18

61	Resting-state Functional Magnetic Resonance Imaging Correlates of Sevoflurane-induced Unconsciousness. *Anesthesiology*, **2015**, 123, 346-56	4.3	69
60	Quantitative amyloid imaging using image-derived arterial input function. *PLoS ONE*, **2015**, 10, e0122920	3.7	20
59	Lag threads organize the brain's intrinsic activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E2235-44	11.5	122
58	A method for reducing the effects of motion contamination in arterial spin labeling magnetic resonance imaging. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 1697-702	7.3	15
57	Long-term neural and physiological phenotyping of a single human. *Nature Communications*, **2015**, 6, 8885	17.4	237
56	Resting-State Blood Oxygen Level-Dependent Functional MRI: A Paradigm Shift in Preoperative Brain Mapping. *Stereotactic and Functional Neurosurgery*, **2015**, 93, 427-39	1.6	18
55	Propagated infra-slow intrinsic brain activity reorganizes across wake and slow wave sleep. *ELife*, **2015**, 4,	8.9	69
54	Severe hippocampal atrophy is not associated with depression in temporal lobe epilepsy. *Epilepsy and Behavior*, **2014**, 34, 9-14	3.2	11
53	Mapping distributed brain function and networks with diffuse optical tomography. *Nature Photonics*, **2014**, 8, 448-454	33.9	308
52	Aerobic glycolysis in the human brain is associated with development and neotenous gene expression. *Cell Metabolism*, **2014**, 19, 49-57	24.6	216
51	Resting-state blood oxygen level-dependent functional magnetic resonance imaging for presurgical planning. *Neuroimaging Clinics of North America*, **2014**, 24, 655-69	3	13
50	Unrecognized preclinical Alzheimer disease confounds rs-fcMRI studies of normal aging. *Neurology*, **2014**, 83, 1613-9	6.5	40
49	Optical imaging of disrupted functional connectivity following ischemic stroke in mice. *NeuroImage*, **2014**, 99, 388-401	7.9	90
48	Resting state functional connectivity in early blind humans. *Frontiers in Systems Neuroscience*, **2014**, 8, 51	3.5	59
47	Large-scale changes in network interactions as a physiological signature of spatial neglect. *Brain*, **2014**, 137, 3267-83	11.2	114
46	Functional connectivity in autosomal dominant and late-onset Alzheimer disease. *JAMA Neurology*, **2014**, 71, 1111-22	17.2	68
45	Methods to detect, characterize, and remove motion artifact in resting state fMRI. *NeuroImage*, **2014**, 84, 320-41	7.9	1793
44	Spatial reorganization of putaminal dopamine D2-like receptors in cranial and hand dystonia. *PLoS ONE*, **2014**, 9, e88121	3.7	13

43	Impaired and facilitated functional networks in temporal lobe epilepsy. *NeuroImage: Clinical*, **2013**, 2, 862-72	5.3	87
42	Resting-state fMRI in the Human Connectome Project. *NeuroImage*, **2013**, 80, 144-68	7.9	865
41	Resting state network estimation in individual subjects. *NeuroImage*, **2013**, 82, 616-633	7.9	174
40	A novel data-driven approach to preoperative mapping of functional cortex using resting-state functional magnetic resonance imaging. *Neurosurgery*, **2013**, 73, 969-82; discussion 982-3	3.2	100
39	Resting state functional connectivity of the striatum in Parkinson's disease. *Brain*, **2012**, 135, 3699-711	11.2	297
38	Spurious but systematic correlations in functional connectivity MRI networks arise from subject motion. *NeuroImage*, **2012**, 59, 2142-54	7.9	4817
37	A brief history of the resting state: the Washington University perspective. *NeuroImage*, **2012**, 62, 902-10	7.9	161
36	Clustering of resting state networks. *PLoS ONE*, **2012**, 7, e40370	3.7	124
35	Detection of blast-related traumatic brain injury in U.S. military personnel. *New England Journal of Medicine*, **2011**, 364, 2091-100	59.2	470
34	Resting-state activity in development and maintenance of normal brain function. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 11638-43	11.5	126
33	Imaging of functional connectivity in the mouse brain. *PLoS ONE*, **2011**, 6, e16322	3.7	161
32	Right hemisphere dominance during spatial selective attention and target detection occurs outside the dorsal frontoparietal network. *Journal of Neuroscience*, **2010**, 30, 3640-51	6.6	376
31	Comment on "Modafinil Shifts Human Locus Coeruleus to Low-Tonic, High-Phasic Activity During Functional MRI" and "Homeostatic Sleep Pressure and Responses to Sustained Attention in the Suprachiasmatic Area". *Science*, **2010**, 328, 309-309	33.3	56
30	Noninvasive functional and structural connectivity mapping of the human thalamocortical system. *Cerebral Cortex*, **2010**, 20, 1187-94	5.1	275
29	The temporal structures and functional significance of scale-free brain activity. *Neuron*, **2010**, 66, 353-69	13.9	596
28	Dynamic susceptibility contrast MRI with localized arterial input functions. *Magnetic Resonance in Medicine*, **2010**, 63, 1305-14	4.4	18
27	The global signal and observed anticorrelated resting state brain networks. *Journal of Neurophysiology*, **2009**, 101, 3270-83	3.2	1439
26	Distinct cortical anatomy linked to subregions of the medial temporal lobe revealed by intrinsic functional connectivity. *Journal of Neurophysiology*, **2008**, 100, 129-39	3.2	371

25	Loss of resting interhemispheric functional connectivity after complete section of the corpus callosum. *Journal of Neuroscience*, **2008**, 28, 6453-8	6.6	247
24	Electrophysiological correlates of the brain's intrinsic large-scale functional architecture. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 16039-44	11.5	526
23	Breakdown of functional connectivity in frontoparietal networks underlies behavioral deficits in spatial neglect. *Neuron*, **2007**, 53, 905-18	13.9	729
22	Distinct brain networks for adaptive and stable task control in humans. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 11073-8	11.5	1857
21	A default mode of brain function: a brief history of an evolving idea. *NeuroImage*, **2007**, 37, 1083-90; discussion 1097-9	7.9	1570
20	Spontaneous neuronal activity distinguishes human dorsal and ventral attention systems. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 10046-51	11.5	1515
19	Transient BOLD responses at block transitions. *NeuroImage*, **2005**, 28, 956-66	7.9	91
18	The human brain is intrinsically organized into dynamic, anticorrelated functional networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 9673-8	11.5	6098
17	Registration of [18F]FDG microPET and small-animal MRI. *Nuclear Medicine and Biology*, **2005**, 32, 567-72	2.1	89
16	Neural basis and recovery of spatial attention deficits in spatial neglect. *Nature Neuroscience*, **2005**, 8, 1603-10	25.5	652
15	A unified approach for morphometric and functional data analysis in young, old, and demented adults using automated atlas-based head size normalization: reliability and validation against manual measurement of total intracranial volume. *NeuroImage*, **2004**, 23, 724-38	7.9	905
14	Functional deactivations: change with age and dementia of the Alzheimer type. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 14504-9	11.5	602
13	Heterogeneity of apparent diffusion coefficients within infarcts. *Stroke*, **2001**, 32, 1695-6	6.7	3
12	Human brain activity time-locked to perceptual event boundaries. *Nature Neuroscience*, **2001**, 4, 651-5	25.5	379
11	The emotional modulation of cognitive processing: an fMRI study. *Journal of Cognitive Neuroscience* , **2000**, 12 Suppl 2, 157-70	3.1	148
10	Functional MRI studies of word-stem completion: reliability across laboratories and comparison to blood flow imaging with PET. *Human Brain Mapping*, **1998**, 6, 203-15	5.9	99
9	Anatomic localization and quantitative analysis of gradient refocused echo-planar fMRI susceptibility artifacts. *NeuroImage*, **1997**, 6, 156-67	7.9	556
8	Blood flow changes in human somatosensory cortex during anticipated stimulation. *Nature*, **1995**, 373, 249-52	50.4	268

7	Spatial and Temporal Organization of the Individual Human Cerebellum. *SSRN Electronic Journal*,	1	2
6	Correction of respiratory artifacts in MRI head motion estimates		6
5	Aging and the encoding of event changes: The role of neural activity pattern reinstatement		1
4	Interpreting Temporal Fluctuations in Resting-State Functional Connectivity MRI		6
3	Cingulo-Opercular Control Network Supports Disused Motor Circuits in Standby Mode		4
2	Removal of high frequency contamination from motion estimates in single-band fMRI saves data without biasing functional connectivity		4
1	Human Fronto-Striatal Connectivity is Organized into Discrete Functional Subnetworks		2