Danielle Bassett

List of Publications by Citations

394 papers	23,332 citations	73 h-index	145 g-index
482 ext. papers	31,649 ext. citations	8 avg, IF	7.78 L-index

#	Paper	IF	Citations
394	Dynamic reconfiguration of human brain networks during learning. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 7641-6	11.5	1019
393	Functional connectivity and brain networks in schizophrenia. *Journal of Neuroscience*, **2010**, 30, 9477-87	6.6	960
392	Network neuroscience. *Nature Neuroscience*, **2017**, 20, 353-364	25.5	952
391	Intrinsic and task-evoked network architectures of the human brain. *Neuron*, **2014**, 83, 238-51	13.9	933
390	Hierarchical organization of human cortical networks in health and schizophrenia. *Journal of Neuroscience*, **2008**, 28, 9239-48	6.6	907
389	Brain graphs: graphical models of the human brain connectome. *Annual Review of Clinical Psychology*, **2011**, 7, 113-40	20.5	746
388	Adaptive reconfiguration of fractal small-world human brain functional networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 19518-23	11.5	646
387	Human brain networks in health and disease. *Current Opinion in Neurology*, **2009**, 22, 340-7	7.1	600
386	Benchmarking of participant-level confound regression strategies for the control of motion artifact in studies of functional connectivity. *NeuroImage*, **2017**, 154, 174-187	7.9	501
385	Dynamic reconfiguration of frontal brain networks during executive cognition in humans. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 11678-83	11.5	427
384	Know your place: neural processing of social hierarchy in humans. *Neuron*, **2008**, 58, 273-83	13.9	388
383	Structural foundations of resting-state and task-based functional connectivity in the human brain. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 6169-74	11.5	366
382	Controllability of structural brain networks. *Nature Communications*, **2015**, 6, 8414	17.4	365
381	Learning-induced autonomy of sensorimotor systems. *Nature Neuroscience*, **2015**, 18, 744-51	25.5	355
380	A validated network of effective amygdala connectivity. *NeuroImage*, **2007**, 36, 736-45	7.9	325
379	Cognitive fitness of cost-efficient brain functional networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 11747-52	11.5	317
378	Robust detection of dynamic community structure in networks. *Chaos*, **2013**, 23, 013142	3.3	308

377	Small-World Brain Networks Revisited. *Neuroscientist*, **2017**, 23, 499-516	7.6	303
376	Altered resting state complexity in schizophrenia. *NeuroImage*, **2012**, 59, 2196-207	7.9	298
375	Conserved and variable architecture of human white matter connectivity. *NeuroImage*, **2011**, 54, 1262-79	7.9	284
374	Efficient physical embedding of topologically complex information processing networks in brains and computer circuits. *PLoS Computational Biology*, **2010**, 6, e1000748	5	283
373	Multi-scale brain networks. *NeuroImage*, **2017**, 160, 73-83	7.9	273
372	Understanding complexity in the human brain. *Trends in Cognitive Sciences*, **2011**, 15, 200-9	14	273
371	Genetic influences on cost-efficient organization of human cortical functional networks. *Journal of Neuroscience*, **2011**, 31, 3261-70	6.6	235
370	Activity flow over resting-state networks shapes cognitive task activations. *Nature Neuroscience*, **2016**, 19, 1718-1726	25.5	231
369	Cognitive network neuroscience. *Journal of Cognitive Neuroscience*, **2015**, 27, 1471-91	3.1	229
368	Task-based core-periphery organization of human brain dynamics. *PLoS Computational Biology*, **2013**, 9, e1003171	5	226
367	Emergence of system roles in normative neurodevelopment. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 13681-6	11.5	197
366	Differential recruitment of the sensorimotor putamen and frontoparietal cortex during motor chunking in humans. *Neuron*, **2012**, 74, 936-46	13.9	190
365	Reproducibility of graph metrics of human brain functional networks. *NeuroImage*, **2009**, 47, 1460-8	7.9	184
364	Modular Segregation of Structural Brain Networks Supports the Development of Executive Function in Youth. *Current Biology*, **2017**, 27, 1561-1572.e8	6.3	178
363	Two's company, three (or more) is a simplex : Algebraic-topological tools for understanding higher-order structure in neural data. *Journal of Computational Neuroscience*, **2016**, 41, 1-14	1.4	175
362	Linked dimensions of psychopathology and connectivity in functional brain networks. *Nature Communications*, **2018**, 9, 3003	17.4	169
361	Questions and controversies in the study of time-varying functional connectivity in resting fMRI. *Network Neuroscience*, **2020**, 4, 30-69	5.6	159
360	On the nature and use of models in network neuroscience. *Nature Reviews Neuroscience*, **2018**, 19, 566-578	35	157

359	Common and Dissociable Dysfunction of the Reward System in Bipolar and Unipolar Depression. *Neuropsychopharmacology*, **2015**, 40, 2258-68	8.7	149
358	Stimulation-Based Control of Dynamic Brain Networks. *PLoS Computational Biology*, **2016**, 12, e1005076	5	146
357	Small-World Propensity and Weighted Brain Networks. *Scientific Reports*, **2016**, 6, 22057	4.9	132
356	Optimally controlling the human connectome: the role of network topology. *Scientific Reports*, **2016**, 6, 30770	4.9	131
355	Virtual Cortical Resection Reveals Push-Pull Network Control Preceding Seizure Evolution. *Neuron*, **2016**, 91, 1170-1182	13.9	130
354	The extent and drivers of gender imbalance in neuroscience reference lists. *Nature Neuroscience*, **2020**, 23, 918-926	25.5	125
353	Dynamic Network Drivers of Seizure Generation, Propagation and Termination in Human Neocortical Epilepsy. *PLoS Computational Biology*, **2015**, 11, e1004608	5	116
352	Cliques and cavities in the human connectome. *Journal of Computational Neuroscience*, **2018**, 44, 115-145	1.4	115
351	Dynamic brain network reconfiguration as a potential schizophrenia genetic risk mechanism modulated by NMDA receptor function. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12568-12573	11.5	109
350	Dynamic network structure of interhemispheric coordination. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 18661-8	11.5	109
349	Local Patterns to Global Architectures: Influences of Network Topology on Human Learning. *Trends in Cognitive Sciences*, **2016**, 20, 629-640	14	109
348	A Functional Cartography of Cognitive Systems. *PLoS Computational Biology*, **2015**, 11, e1004533	5	108
347	Detection of functional brain network reconfiguration during task-driven cognitive states. *NeuroImage*, **2016**, 142, 198-210	7.9	106
346	Fractal connectivity of long-memory networks. *Physical Review E*, **2008**, 77, 036104	2.4	101
345	Functional Network Dynamics of the Language System. *Cerebral Cortex*, **2016**, 26, 4148-4159	5.1	100
344	Spread of α-synuclein pathology through the brain connectome is modulated by selective vulnerability and predicted by network analysis. *Nature Neuroscience*, **2019**, 22, 1248-1257	25.5	100
343	Generic aspects of complexity in brain imaging data and other biological systems. *NeuroImage*, **2009**, 47, 1125-34	7.9	98
342	Development of structure-function coupling in human brain networks during youth. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 771-778	11.5	97

341	Common Dimensional Reward Deficits Across Mood and Psychotic Disorders: A Connectome-Wide Association Study. *American Journal of Psychiatry*, **2017**, 174, 657-666	11.9	92
340	A mechanistic model of connector hubs, modularity and cognition. *Nature Human Behaviour*, **2018**, 2, 765-777	12.8	92
339	The modular organization of human anatomical brain networks: Accounting for the cost of wiring. *Network Neuroscience*, **2017**, 1, 42-68	5.6	91
338	. *Proceedings of the IEEE*, **2018**, 106, 868-885	14.3	91
337	Developmental increases in white matter network controllability support a growing diversity of brain dynamics. *Nature Communications*, **2017**, 8, 1252	17.4	90
336	Specificity and robustness of long-distance connections in weighted, interareal connectomes. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E4880-E4889	11.5	89
335	Brain network adaptability across task states. *PLoS Computational Biology*, **2015**, 11, e1004029	5	88
334	Optimal trajectories of brain state transitions. *NeuroImage*, **2017**, 148, 305-317	7.9	87
333	The physics of brain network structure, function and control. *Nature Reviews Physics*, **2019**, 1, 318-332	23.6	84
332	From Maps to Multi-dimensional Network Mechanisms of Mental Disorders. *Neuron*, **2018**, 97, 14-31	13.9	84
331	Positive affect, surprise, and fatigue are correlates of network flexibility. *Scientific Reports*, **2017**, 7, 520	4.9	84
330	Mitigating head motion artifact in functional connectivity MRI. *Nature Protocols*, **2018**, 13, 2801-2826	18.8	84
329	Graph Frequency Analysis of Brain Signals. *IEEE Journal on Selected Topics in Signal Processing*, **2016**, 10, 1189-1203	7.5	82
328	Diversity of meso-scale architecture in human and non-human connectomes. *Nature Communications*, **2018**, 9, 346	17.4	81
327	The Role of Intrinsic Brain Functional Connectivity in Vulnerability and Resilience to Bipolar Disorder. *American Journal of Psychiatry*, **2017**, 174, 1214-1222	11.9	80
326	Influence of network topology on sound propagation in granular materials. *Physical Review E*, **2012**, 86, 041306	2.4	79
325	Connectome-wide network analysis of youth with Psychosis-Spectrum symptoms. *Molecular Psychiatry*, **2015**, 20, 1508-15	15.1	78
324	Brain connectivity dynamics during social interaction reflect social network structure. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 5153-5158	11.5	75

323	Extraction of force-chain network architecture in granular materials using community detection. *Soft Matter*, **2015**, 11, 2731-44	3.6	75
322	Structurally-constrained relationships between cognitive states in the human brain. *PLoS Computational Biology*, **2014**, 10, e1003591	5	74
321	Dynamic graph metrics: Tutorial, toolbox, and tale. *NeuroImage*, **2018**, 180, 417-427	7.9	72
320	Resolving structural variability in network models and the brain. *PLoS Computational Biology*, **2014**, 10, e1003491	5	71
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318	Motion artifact in studies of functional connectivity: Characteristics and mitigation strategies. *Human Brain Mapping*, **2019**, 40, 2033-2051	5.9	69
317	Evolution of brain network dynamics in neurodevelopment. *Network Neuroscience*, **2017**, 1, 14-30	5.6	66
316	Network analysis of particles and grains. *Journal of Complex Networks*, **2018**, 6, 485-565	1.7	66
315	Functional Alignment with Anatomical Networks is Associated with Cognitive Flexibility. *Nature Human Behaviour*, **2018**, 2, 156-164	12.8	66
314	Role of Graph Architecture in Controlling Dynamical Networks with Applications to Neural Systems. *Nature Physics*, **2018**, 14, 91-98	16.2	66
313	Modeling and interpreting mesoscale network dynamics. *NeuroImage*, **2018**, 180, 337-349	7.9	65
312	Network and Multilayer Network Approaches to Understanding Human Brain Dynamics. *Philosophy of Science*, **2016**, 83, 710-720	1.1	65
311	Individual Variation in Functional Topography of Association Networks in Youth. *Neuron*, **2020**, 106, 340-353.e8	13.9	61
310	Novel primate miRNAs coevolved with ancient target genes in germinal zone-specific expression patterns. *Neuron*, **2014**, 81, 1255-1262	13.9	61
309	Choosing Wavelet Methods, Filters, and Lengths for Functional Brain Network Construction. *PLoS ONE*, **2016**, 11, e0157243	3.7	60
308	Brain and cognitive reserve: Translation via network control theory. *Neuroscience and Biobehavioral Reviews*, **2017**, 75, 53-64	9	59
307	Cross-linked structure of network evolution. *Chaos*, **2014**, 24, 013112	3.3	58
306	A Network Neuroscience of Human Learning: Potential to Inform Quantitative Theories of Brain and Behavior. *Trends in Cognitive Sciences*, **2017**, 21, 250-264	14	57

305	The impact of in-scanner head motion on structural connectivity derived from diffusion MRI. *NeuroImage*, **2018**, 173, 275-286	7.9	57
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303	Applications of community detection techniques to brain graphs: Algorithmic considerations and implications for neural function. *Proceedings of the IEEE*, **2018**, 106, 846-867	14.3	55
302	Dynamic Flexibility in Striatal-Cortical Circuits Supports Reinforcement Learning. *Journal of Neuroscience*, **2018**, 38, 2442-2453	6.6	55
301	Colloquium: Control of dynamics in brain networks. *Reviews of Modern Physics*, **2018**, 90,	40.5	55
300	The importance of the whole: Topological data analysis for the network neuroscientist. *Network Neuroscience*, **2019**, 3, 656-673	5.6	54
299	The community structure of functional brain networks exhibits scale-specific patterns of inter- and intra-subject variability. *NeuroImage*, **2019**, 202, 115990	7.9	52
298	Generative models for network neuroscience: prospects and promise. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	51
297	Finding the needle in a high-dimensional haystack: Canonical correlation analysis for neuroscientists. *NeuroImage*, **2020**, 216, 116745	7.9	50
296	Dynamic network centrality summarizes learning in the human brain. *Journal of Complex Networks*, **2013**, 1, 83-92	1.7	48
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294	Spectral mapping of brain functional connectivity from diffusion imaging. *Scientific Reports*, **2018**, 8, 1411	4.9	47
293	Emerging evidence of connectomic abnormalities in schizophrenia. *Journal of Neuroscience*, **2011**, 31, 6263-5	6.6	46
292	Functionalization of a protosynaptic gene expression network. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109 Suppl 1, 10612-8	11.5	46
291	Structural, geometric and genetic factors predict interregional brain connectivity patterns probed by electrocorticography. *Nature Biomedical Engineering*, **2019**, 3, 902-916	19	45
290	The Energy Landscape of Neurophysiological Activity Implicit in Brain Network Structure. *Scientific Reports*, **2018**, 8, 2507	4.9	45
289	Fronto-limbic dysconnectivity leads to impaired brain network controllability in young people with bipolar disorder and those at high genetic risk. *NeuroImage: Clinical*, **2018**, 19, 71-81	5.3	45
288	Integrating EEG and MEG Signals to Improve Motor Imagery Classification in Brain-Computer Interface. *International Journal of Neural Systems*, **2019**, 29, 1850014	6.2	45

287	Resolving anatomical and functional structure in human brain organization: identifying mesoscale organization in weighted network representations. *PLoS Computational Biology*, **2014**, 10, e1003712	5	45
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285	Evolution of network architecture in a granular material under compression. *Physical Review E*, **2016**, 94, 032908	2.4	45
284	Topological distortion and reorganized modular structure of gut microbial co-occurrence networks in inflammatory bowel disease. *Scientific Reports*, **2016**, 6, 26087	4.9	44
283	Temporal lobe epilepsy: Hippocampal pathology modulates connectome topology and controllability. *Neurology*, **2019**, 92, e2209-e2220	6.5	43
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281	Shared endo-phenotypes of default mode dsfunction in attention deficit/hyperactivity disorder and autism spectrum disorder. *Translational Psychiatry*, **2018**, 8, 133	8.6	42
280	Virtual resection predicts surgical outcome for drug-resistant epilepsy. *Brain*, **2019**, 142, 3892-3905	11.2	42
279	A network engineering perspective on probing and perturbing cognition with neurofeedback. *Annals of the New York Academy of Sciences*, **2017**, 1396, 126-143	6.5	41
278	White Matter Network Architecture Guides Direct Electrical Stimulation through Optimal State Transitions. *Cell Reports*, **2019**, 28, 2554-2566.e7	10.6	41
277	Predicting future learning from baseline network architecture. *NeuroImage*, **2018**, 172, 107-117	7.9	41
276	Environmental influences on the pace of brain development. *Nature Reviews Neuroscience*, **2021**, 22, 372-384	13.5	40
275	Multimodal network dynamics underpinning working memory. *Nature Communications*, **2020**, 11, 3035	17.4	39
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273	Glucocerebrosidase Activity Modulates Neuronal Susceptibility to Pathological □-Synuclein Insult. *Neuron*, **2020**, 105, 822-836.e7	13.9	39
272	Spatial Embedding Imposes Constraints on Neuronal Network Architectures. *Trends in Cognitive Sciences*, **2018**, 22, 1127-1142	14	39
271	Knowledge gaps in the early growth of semantic feature networks. *Nature Human Behaviour*, **2018**, 2, 682-692	12.8	38
270	Comparison of large-scale human brain functional and anatomical networks in schizophrenia. *NeuroImage: Clinical*, **2017**, 15, 439-448	5.3	37

269	Temporal sequences of brain activity at rest are constrained by white matter structure and modulated by cognitive demands. *Communications Biology*, **2020**, 3, 261	6.7	36
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267	Learning, memory, and the role of neural network architecture. *PLoS Computational Biology*, **2011**, 7, e1002063	5	35
266	Autaptic Connections Shift Network Excitability and Bursting. *Scientific Reports*, **2017**, 7, 44006	4.9	34
265	Associations between Neighborhood SES and Functional Brain Network Development. *Cerebral Cortex*, **2020**, 30, 1-19	5.1	34
264	Mapping the structural and functional network architecture of the medial temporal lobe using 7T MRI. *Human Brain Mapping*, **2018**, 39, 851-865	5.9	34
263	Neurodevelopment of the association cortices: Patterns, mechanisms, and implications for psychopathology. *Neuron*, **2021**, 109, 2820-2846	13.9	34
262	The energy landscape underpinning module dynamics in the human brain connectome. *NeuroImage*, **2017**, 157, 364-380	7.9	33
261	Personalized Neuroscience: Common and Individual-Specific Features in Functional Brain Networks. *Neuron*, **2018**, 98, 243-245	13.9	33
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259	Emerging Frontiers of Neuroengineering: A Network Science of Brain Connectivity. *Annual Review of Biomedical Engineering*, **2017**, 19, 327-352	12	32
258	On Human Brain Networks in Health and Disease **2015**, 1-9		32
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256	Recurring Functional Interactions Predict Network Architecture of Interictal and Ictal States in Neocortical Epilepsy. *ENeuro*, **2017**, 4,	3.9	31
255	Individual Differences in Dynamic Functional Brain Connectivity across the Human Lifespan. *PLoS Computational Biology*, **2016**, 12, e1005178	5	31
254	Structural Controllability of Symmetric Networks. *IEEE Transactions on Automatic Control*, **2019**, 64, 3740-3747	5.7	31
253	Development of structural correlations and synchronization from adaptive rewiring in networks of Kuramoto oscillators. *Chaos*, **2017**, 27, 073115	3.3	30
252	Sex differences in network controllability as a predictor of executive function in youth. *NeuroImage*, **2019**, 188, 122-134	7.9	30

251	Coherent activity between brain regions that code for value is linked to the malleability of human behavior. *Scientific Reports*, **2017**, 7, 43250	4.9	28
250	Disrupted dynamic network reconfiguration of the language system in temporal lobe epilepsy. *Brain*, **2018**, 141, 1375-1389	11.2	28
249	Brain state expression and transitions are related to complex executive cognition in normative neurodevelopment. *NeuroImage*, **2018**, 166, 293-306	7.9	28
248	Functional control of electrophysiological network architecture using direct neurostimulation in humans. *Network Neuroscience*, **2019**, 3, 848-877	5.6	27
247	Leveraging multi-shell diffusion for studies of brain development in youth and young adulthood. *Developmental Cognitive Neuroscience*, **2020**, 43, 100788	5.5	27
246	The Why, How, and When of Representations for Complex Systems. *SIAM Review*, **2021**, 63, 435-485	7.4	27
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244	Process reveals structure: How a network is traversed mediates expectations about its architecture. *Scientific Reports*, **2017**, 7, 12733	4.9	26
243	Racial and ethnic imbalance in neuroscience reference lists and intersections with gender		26
242	QSIPrep: an integrative platform for preprocessing and reconstructing diffusion MRI data. *Nature Methods*, **2021**, 18, 775-778	21.6	26
241	Evaluation of confound regression strategies for the mitigation of micromovement artifact in studies of dynamic resting-state functional connectivity and multilayer network modularity. *Network Neuroscience*, **2019**, 3, 427-454	5.6	26
240	Different shades of default mode disturbance in schizophrenia: Subnodal covariance estimation in structure and function. *Human Brain Mapping*, **2018**, 39, 644-661	5.9	26
239	Beyond modularity: Fine-scale mechanisms and rules for brain network reconfiguration. *NeuroImage*, **2018**, 166, 385-399	7.9	26
238	A practical guide to methodological considerations in the controllability of structural brain networks. *Journal of Neural Engineering*, **2020**, 17, 026031	5	25
237	Globally weaker and topologically different: resting-state connectivity in youth with autism. *Molecular Autism*, **2017**, 8, 39	6.5	25
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227	Digital phenotyping for psychiatry: Accommodating data and theory with network science methodologies. *Current Opinion in Biomedical Engineering*, **2019**, 9, 8-13	4.4	21
226	Repetitive negative thinking in daily life and functional connectivity among default mode, fronto-parietal, and salience networks. *Translational Psychiatry*, **2019**, 9, 234	8.6	20
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212	Benchmarking Measures of Network Controllability on Canonical Graph Models. *Journal of Nonlinear Science*, **2020**, 30, 2195-2233	2.8	19
211	Network constraints on learnability of probabilistic motor sequences. *Nature Human Behaviour*, **2018**, 2, 936-947	12.8	19
210	Structural Pathways Supporting Swift Acquisition of New Visuomotor Skills. *Cerebral Cortex*, **2017**, 27, 173-184	5.1	18
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205	Classification of weighted networks through mesoscale homological features. *Journal of Complex Networks*, **2016**, cnw013	1.7	16
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200	Reflections on the past two decades of neuroscience. *Nature Reviews Neuroscience*, **2020**, 21, 524-534	13.5	15
199	Mind control as a guide for the mind. *Nature Human Behaviour*, **2017**, 1,	12.8	14
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