Guillaume Ml Dumas

List of Publications by Year
in descending order

89 papers	4,696 citations	172443 29 h-index	128286 60 g-index
120 all docs	120 docs citations	120 times ranked	4664 citing authors

#	Article	IF	Citations
1	Autism spectrum disorder. Nature Reviews Disease Primers, 2020, 6, 5.	30.5	746
2	Inter-Brain Synchronization during Social Interaction. PLoS ONE, 2010, 5, e12166.	2.5	702
3	Brain-to-brain coupling during handholding is associated with pain reduction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2528-E2537.	7.1	197
4	The EU-AIMS Longitudinal European Autism Project (LEAP): design and methodologies to identify and validate stratification biomarkers for autism spectrum disorders. Molecular Autism, 2017, 8, 24.	4.9	183
5	From social behaviour to brain synchronization: Review and perspectives in hyperscanning. Irbm, 2011, 32, 48-53.	5.6	149
6	Outline of a general theory of behavior and brain coordination. Neural Networks, 2013, 37, 120-131.	5.9	139
7	The human dynamic clamp as a paradigm for social interaction. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3726-34.	7.1	139
8	The EU-AIMS Longitudinal European Autism Project (LEAP): clinical characterisation. Molecular Autism, 2017, 8, 27.	4.9	126
9	Dissecting the Heterogeneous Cortical Anatomy of Autism Spectrum Disorder Using Normative Models. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 567-578.	1.5	97
10	Towards a two-body neuroscience. Communicative and Integrative Biology, 2011, 4, 349-352.	1.4	91
11	Anatomical Connectivity Influences both Intra- and Inter-Brain Synchronizations. PLoS ONE, 2012, 7, e36414.	2.5	90
12	From pattern classification to stratification: towards conceptualizing the heterogeneity of Autism Spectrum Disorder. Neuroscience and Biobehavioral Reviews, 2019, 104, 240-254.	6.1	88
13	Investigating the factors underlying adaptive functioning in autism in the EU‐AIMS Longitudinal European Autism Project. Autism Research, 2019, 12, 645-657.	3.8	87
14	Revisiting mu suppression in autism spectrum disorder. Brain Research, 2014, 1585, 108-119.	2.2	83
15	Altered Connectivity Between Cerebellum, Visual, and Sensory-Motor Networks in Autism Spectrum Disorder: Results from the EU-AIMS Longitudinal European Autism Project. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 260-270.	1.5	82
16	Dark control: The default mode network as a reinforcement learning agent. Human Brain Mapping, 2020, 41, 3318-3341.	3.6	73
17	Does the brain know who is at the origin of what in an imitative interaction?. Frontiers in Human Neuroscience, 2012, 6, 128.	2.0	57
18	A normative modelling approach reveals age-atypical cortical thickness in a subgroup of males with autism spectrum disorder. Communications Biology, 2020, 3, 486.	4.4	57

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19	Human attachments shape interbrain synchrony toward efficient performance of social goals. NeuroImage, 2021, 226, 117600.	4.2	56
20	#EEGManyLabs: Investigating the replicability of influential EEG experiments. Cortex, 2021, 144, 213-229.	2.4	52
21	Genetic correlates of phenotypic heterogeneity in autism. Nature Genetics, 2022, 54, 1293-1304.	21.4	51
22	Experimenting with reproducibility: a case study of robustness in bioinformatics. GigaScience, 2018, 7, .	6.4	50
23	Differential brain-to-brain entrainment while speaking and listening in native and foreign languages. Cortex, 2019, 111, 303-315.	2.4	50
24	HyPyP: a Hyperscanning Python Pipeline for inter-brain connectivity analysis. Social Cognitive and Affective Neuroscience, 2021, 16, 72-83.	3.0	46
25	A de novo microdeletion of SEMA5A in a boy with autism spectrum disorder and intellectual disability. European Journal of Human Genetics, 2016, 24, 838-843.	2.8	40
26	Towards robust and replicable sex differences in the intrinsic brain function of autism. Molecular Autism, 2021, 12, 19.	4.9	40
27	Magnetoencephalographic signatures of visual form and motion binding. Brain Research, 2011, 1408, 27-40.	2.2	37
28	Your body, my body, our coupling moves our bodies. Frontiers in Human Neuroscience, 2014, 8, 1004.	2.0	37
29	Alpha Waves as a Neuromarker of Autism Spectrum Disorder: The Challenge of Reproducibility and Heterogeneity. Frontiers in Neuroscience, 2018, 12, 662.	2.8	37
30	Modeling flexible behavior in childhood to adulthood shows age-dependent learning mechanisms and less optimal learning in autism in each age group. PLoS Biology, 2020, 18, e3000908.	5.6	37
31	The Human Dynamic Clamp Reveals the Fronto-Parietal Network Linking Real-Time Social Coordination and Cognition. Cerebral Cortex, 2020, 30, 3271-3285.	2.9	36
32	Atypical Brain Asymmetry in Autism—A Candidate for Clinically Meaningful Stratification. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 802-812.	1.5	36
33	Reciprocity and alignment: quantifying coupling in dynamic interactions. Royal Society Open Science, 2021, 8, 210138.	2.4	36
34	Tackling the social cognition paradox through multi-scale approaches. Frontiers in Psychology, 2014, 5, 882.	2.1	35
35	Mutations associated with neuropsychiatric conditions delineate functional brain connectivity dimensions contributing to autism and schizophrenia. Nature Communications, 2020, 11, 5272.	12.8	35
36	The Virtual Teacher (VT) Paradigm: Learning New Patterns of Interpersonal Coordination Using the Human Dynamic Clamp. PLoS ONE, 2015, 10, e0142029.	2.5	33

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37	Automatic measure of imitation during social interaction: A behavioral and hyperscanning-EEG benchmark. Pattern Recognition Letters, 2015, 66, 118-126.	4.2	33
38	Dissecting the phenotypic heterogeneity in sensory features in autism spectrum disorder: a factor mixture modelling approach. Molecular Autism, 2020, 11, 67.	4.9	32
39	Implementing EEG hyperscanning setups. MethodsX, 2019, 6, 428-436.	1.6	30
40	Enhanced emotional responses during social coordination with a virtual partner. International Journal of Psychophysiology, 2016, 104, 33-43.	1.0	28
41	Beyond Correlation versus Causation: Multi-brain Neuroscience Needs Explanation. Trends in Cognitive Sciences, 2021, 25, 542-543.	7.8	28
42	Interindividual Differences in Cortical Thickness and Their Genomic Underpinnings in Autism Spectrum Disorder. American Journal of Psychiatry, 2022, 179, 242-254.	7.2	28
43	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. Neuron, 2021, 109, 1769-1775.	8.1	27
44	Binaural Beats through the Auditory Pathway: From Brainstem to Connectivity Patterns. ENeuro, 2020, 7, ENEURO.0232-19.2020.	1.9	26
45	The meaning of significant mean group differences for biomarker discovery. PLoS Computational Biology, 2021, 17, e1009477.	3.2	26
46	Systematic detection of brain protein-coding genes under positive selection during primate evolution and their roles in cognition. Genome Research, 2021, 31, 484-496.	5.5	25
47	Maternal chemosignals enhance infant-adult brain-to-brain synchrony. Science Advances, 2021, 7, eabg6867.	10.3	25
48	A systematic analysis of ICSD-3 diagnostic criteria and proposal for further structured iteration. Sleep Medicine Reviews, 2021, 58, 101439.	8.5	24
49	Making psychiatric semiology great again: A semiologic, not nosologic challenge. L'Encephale, 2018, 44, 343-353.	0.9	22
50	Morning Plasma Melatonin Differences in Autism: Beyond the Impact of Pineal Gland Volume. Frontiers in Psychiatry, 2019, 10, 11.	2.6	21
51	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 813-824.	1.5	21
52	Toward a neural basis for peer-interaction: what makes peer-learning tick?. Frontiers in Psychology, 2015, 6, 28.	2.1	20
53	Resting state EEG power spectrum and functional connectivity in autism: a cross-sectional analysis. Molecular Autism, 2022, 13, 22.	4.9	20
54	Patterns of autism symptoms: hidden structure in the ADOS and ADI-R instruments. Translational Psychiatry, 2020, 10, 257.	4.8	19

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55	Imbalanced social-communicative and restricted repetitive behavior subtypes of autism spectrum disorder exhibit different neural circuitry. Communications Biology, 2021, 4, 574.	4.4	17
56	From Generative Models to Generative Passages: A Computational Approach to (Neuro) Phenomenology. Review of Philosophy and Psychology, 2022, 13, 829-857.	1.8	17
57	Neurobiological Correlates of Change in Adaptive Behavior in Autism. American Journal of Psychiatry, 2022, 179, 336-349.	7.2	15
58	Cyborg psychiatry to ensure agency and autonomy in mental disorders. A proposal for neuromodulation therapeutics. Frontiers in Human Neuroscience, 2013, 7, 463.	2.0	13
59	The Regulation of Task Performance: A Trans-Disciplinary Review. Frontiers in Psychology, 2016, 6, 1862.	2.1	12
60	From interâ€brain connectivity to interâ€personal psychiatry. World Psychiatry, 2022, 21, 214-215.	10.4	11
61	Generative Models of Brain Dynamics. Frontiers in Artificial Intelligence, 0, 5, .	3.4	11
62	Hybrid Harmony: A Multi-Person Neurofeedback Application for Interpersonal Synchrony. Frontiers in Neuroergonomics, 2021, 2, .	1.1	10
63	Preference for biological motion is reduced in ASD: implications for clinical trials and the search for biomarkers. Molecular Autism, 2021, 12, 74.	4.9	10
64	A roadmap to computational social neuroscience. Cognitive Neurodynamics, 2018, 12, 135-140.	4.0	9
65	Comment on Starke et al.: â€˜Computing schizophrenia: ethical challenges for machine learning in psychiatryâ€™: from machine learning to student learning: pedagogical challenges for psychiatry. Psychological Medicine, 2021, 51, 2509-2511.	4.5	9
66	Interpersonal Synchrony: From Social Perception to Social Interaction. , 2017, , 202-212.		8
67	Social Neuro AI: Social Interaction as the â€œDark Matterâ€•of AI. Frontiers in Computer Science, 2022, 4, .	2.8	8
68	The Interacting Body: Intra- and Interindividual Processes During Imitation. Journal of Cognitive Education and Psychology, 2014, 13, 163-175.	0.2	7
69	Why do sleep disorders belong to mental disorder classifications? A network analysis of the â€œSleep-Wake Disordersâ€•section of the DSM-5. Journal of Psychiatric Research, 2021, 142, 153-159.	3.1	7
70	Interactive Psychometrics for Autism With the Human Dynamic Clamp: Interpersonal Synchrony From Sensorimotor to Sociocognitive Domains. Frontiers in Psychiatry, 2020, 11, 510366.	2.6	7
71	The Evolving Nature of Social Network Research: A Commentary to Gleibs (2014). Analyses of Social Issues and Public Policy, 2014, 14, 374-378.	1.7	6
72	Popular and Scientific Discourse on Autism: Representational Cross-Cultural Analysis of Epistemic Communities to Inform Policy and Practice. Journal of Medical Internet Research, 2022, 24, e32912.	4.3	6

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73	How Can Digital Mental Health Enhance Psychiatry?. Neuroscientist, 2023, 29, 681-693.	3.5	6
74	Médecine du sommeil personnalisée et syndrome d'apnées hypopnées obstructives du sommeil : entre précision et stratification, une proposition de clarification. Médecine Du Sommeil, 2020, 17, 213-230.	0.2	5
75	"Social physiology" for psychiatric semiology: How TTOM can initiate an interactive turn for computational psychiatry?. Behavioral and Brain Sciences, 2020, 43, e102.	0.7	5
76	Les trois cultures de la psychiatrie computationnelle. Annales Medico-Psychologiques, 2021, 179, 63-71.	0.4	5
77	Symptom network analysis of the sleep disorders diagnostic criteria based on the clinical text of the ICSD-3. Journal of Sleep Research, 2022, 31, e13435.	3.2	5
78	Early Transcriptional Changes in Rabies Virus-Infected Neurons and Their Impact on Neuronal Functions. Frontiers in Microbiology, 2021, 12, 730892.	3.5	5
79	Coordination dynamics: Bidirectional coupling between humans, machines and brains. , 2014, , .		4
80	Mass-spectrometry analysis of the human pineal proteome during night and day and in autism. Journal of Pineal Research, 2021, 70, e12713.	7.4	4
81	Naming Autism in the Right Context. JAMA Pediatrics, 2022, 176, 633.	6.2	4
82	Personalized Medicine for OSA Syndrome in a Nutshell. Chest, 2021, 159, 451-452.	0.8	3
83	The Human Dynamic Clamp: A Probe for Coordination Across Neural, Behavioral, and Social Scales. , 2018, , 317-332.		2
84	Comment on Starke et al.: "Computing schizophrenia: ethical challenges for machine learning in psychiatry" From machine learning to student learning: pedagogical challenges for psychiatry – Corrigendum. Psychological Medicine, 2021, 51, 1-1.	4.5	2
85	Learning Brain Dynamics With Coupled Low-Dimensional Nonlinear Oscillators and Deep Recurrent Networks. Neural Computation, 2021, 33, 2087-2127.	2.2	2
86	Vers une approche physiologique de la sémiologie en psychiatrie. Partie 2 : perspectives offertes par la biologie systémique. Annales Medico-Psychologiques, 2019, 177, 289-294.	0.4	1
87	Vers une approche physiologique de la sémiologie en psychiatrie. Partie 1 : approches RDC, DSM, RDoC et HiTOP. Annales Medico-Psychologiques, 2019, 177, 282-288.	0.4	0
88	Electro-clinical features in epileptic children with chromosome 15q duplication syndrome. Clinical Neurophysiology, 2021, 132, 1126-1137.	1.5	0
89	Dans le cerveau des autistes. , 2018, N° 105, 54-58.		0