

Guillaume Ml Dumas

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.

96
papers

2,410
citations

22
h-index

47
g-index

120
ext. papers

3,658
ext. citations

6.2
avg, IF

5.54
L-index

#	Paper	IF	Citations
96	Inter-brain synchronization during social interaction. <i>PLoS ONE</i> , 2010 , 5, e12166	3.7	516
95	Autism spectrum disorder. <i>Nature Reviews Disease Primers</i> , 2020 , 6, 5	51.1	259
94	Brain-to-brain coupling during handholding is associated with pain reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E2528-E2537	11.5	123
93	From social behaviour to brain synchronization: Review and perspectives in hyperscanning. <i>Irbm</i> , 2011 , 32, 48-53	4.8	107
92	The EU-AIMS Longitudinal European Autism Project (LEAP): design and methodologies to identify and validate stratification biomarkers for autism spectrum disorders. <i>Molecular Autism</i> , 2017 , 8, 24	6.5	106
91	The human dynamic clamp as a paradigm for social interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E3726-34	11.5	99
90	Outline of a general theory of behavior and brain coordination. <i>Neural Networks</i> , 2013 , 37, 120-31	9.1	94
89	Anatomical connectivity influences both intra- and inter-brain synchronizations. <i>PLoS ONE</i> , 2012 , 7, e36414	3.7	70
88	The EU-AIMS Longitudinal European Autism Project (LEAP): clinical characterisation. <i>Molecular Autism</i> , 2017 , 8, 27	6.5	69
87	Revisiting mu suppression in autism spectrum disorder. <i>Brain Research</i> , 2014 , 1585, 108-19	3.7	64
86	Towards a two-body neuroscience. <i>Communicative and Integrative Biology</i> , 2011 , 4, 349-52	1.7	64
85	Does the brain know who is at the origin of what in an imitative interaction?. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 128	3.3	47
84	Dissecting the Heterogeneous Cortical Anatomy of Autism Spectrum Disorder Using Normative Models. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019 , 4, 567-578	3.4	47
83	Altered Connectivity Between Cerebellum, Visual, and Sensory-Motor Networks in Autism Spectrum Disorder: Results from the EU-AIMS Longitudinal European Autism Project. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019 , 4, 260-270	3.4	43
82	From pattern classification to stratification: towards conceptualizing the heterogeneity of Autism Spectrum Disorder. <i>Neuroscience and Biobehavioral Reviews</i> , 2019 , 104, 240-254	9	37
81	Investigating the factors underlying adaptive functioning in autism in the EU-AIMS Longitudinal European Autism Project. <i>Autism Research</i> , 2019 , 12, 645-657	5.1	35
80	Differential brain-to-brain entrainment while speaking and listening in native and foreign languages. <i>Cortex</i> , 2019 , 111, 303-315	3.8	29

79	Tackling the social cognition paradox through multi-scale approaches. <i>Frontiers in Psychology</i> , 2014 , 5, 882	3.4	27
78	Magnetoencephalographic signatures of visual form and motion binding. <i>Brain Research</i> , 2011 , 1408, 27-40	3.7	27
77	Dark control: The default mode network as a reinforcement learning agent. <i>Human Brain Mapping</i> , 2020 , 41, 3318-3341	5.9	26
76	A de novo microdeletion of SEMA5A in a boy with autism spectrum disorder and intellectual disability. <i>European Journal of Human Genetics</i> , 2016 , 24, 838-43	5.3	24
75	The Virtual Teacher (VT) Paradigm: Learning New Patterns of Interpersonal Coordination Using the Human Dynamic Clamp. <i>PLoS ONE</i> , 2015 , 10, e0142029	3.7	23
74	Automatic measure of imitation during social interaction: A behavioral and hyperscanning-EEG benchmark. <i>Pattern Recognition Letters</i> , 2015 , 66, 118-126	4.7	22
73	Experimenting with reproducibility: a case study of robustness in bioinformatics. <i>GigaScience</i> , 2018 , 7,	7.6	22
72	Your body, my body, our coupling moves our bodies. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 1004	3.3	21
71	The Human Dynamic Clamp Reveals the Fronto-Parietal Network Linking Real-Time Social Coordination and Cognition. <i>Cerebral Cortex</i> , 2020 , 30, 3271-3285	5.1	19
70	A normative modelling approach reveals age-atypical cortical thickness in a subgroup of males with autism spectrum disorder. <i>Communications Biology</i> , 2020 , 3, 486	6.7	18
69	HyPyP: a Hyperscanning Python Pipeline for inter-brain connectivity analysis. <i>Social Cognitive and Affective Neuroscience</i> , 2021 , 16, 72-83	4	17
68	Making psychiatric semiology great again: A semiologic, not nosologic challenge. <i>L'Encephale</i> , 2018 , 44, 343-353	2.9	16
67	Enhanced emotional responses during social coordination with a virtual partner. <i>International Journal of Psychophysiology</i> , 2016 , 104, 33-43	2.9	16
66	Human attachments shape interbrain synchrony toward efficient performance of social goals. <i>NeuroImage</i> , 2021 , 226, 117600	7.9	16
65	Alpha Waves as a Neuromarker of Autism Spectrum Disorder: The Challenge of Reproducibility and Heterogeneity. <i>Frontiers in Neuroscience</i> , 2018 , 12, 662	5.1	16
64	Implementing EEG hyperscanning setups. <i>MethodsX</i> , 2019 , 6, 428-436	1.9	15
63	Atypical Brain Asymmetry in Autism-A Candidate for Clinically Meaningful Stratification. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021 , 6, 802-812	3.4	14
62	Mutations associated with neuropsychiatric conditions delineate functional brain connectivity dimensions contributing to autism and schizophrenia. <i>Nature Communications</i> , 2020 , 11, 5272	17.4	13

61	Morning Plasma Melatonin Differences in Autism: Beyond the Impact of Pineal Gland Volume. <i>Frontiers in Psychiatry</i> , 2019 , 10, 11	5	12
60	Beyond Correlation versus Causation: Multi-brain Neuroscience Needs Explanation. <i>Trends in Cognitive Sciences</i> , 2021 , 25, 542-543	14	12
59	Toward a neural basis for peer-interaction: what makes peer-learning tick?. <i>Frontiers in Psychology</i> , 2015 , 6, 28	3.4	11
58	Modeling flexible behavior in childhood to adulthood shows age-dependent learning mechanisms and less optimal learning in autism in each age group. <i>PLoS Biology</i> , 2020 , 18, e3000908	9.7	10
57	Binaural Beats through the Auditory Pathway: From Brainstem to Connectivity Patterns. <i>ENeuro</i> , 2020 , 7,	3.9	10
56	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021 , 6, 813-824	3.4	10
55	Patterns of autism symptoms: hidden structure in the ADOS and ADI-R instruments. <i>Translational Psychiatry</i> , 2020 , 10, 257	8.6	10
54	#EEGManyLabs: Investigating the replicability of influential EEG experiments. <i>Cortex</i> , 2021 , 144, 213-229,8		10
53	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. <i>Neuron</i> , 2021 , 109, 1769-1775	13.9	10
52	Normative age modelling of cortical thickness in autistic males		9
51	Towards robust and replicable sex differences in the intrinsic brain function of autism. <i>Molecular Autism</i> , 2021 , 12, 19	6.5	9
50	Reciprocity and alignment: quantifying coupling in dynamic interactions. <i>Royal Society Open Science</i> , 2021 , 8, 210138	3.3	8
49	Systematic detection of brain protein-coding genes under positive selection during primate evolution and their roles in cognition. <i>Genome Research</i> , 2021 , 31, 484-496	9.7	8
48	Cyborg psychiatry to ensure agency and autonomy in mental disorders. A proposal for neuromodulation therapeutics. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 463	3.3	7
47	Dissecting the phenotypic heterogeneity in sensory features in autism spectrum disorder: a factor mixture modelling approach. <i>Molecular Autism</i> , 2020 , 11, 67	6.5	7
46	A roadmap to computational social neuroscience. <i>Cognitive Neurodynamics</i> , 2018 , 12, 135-140	4.2	7
45	The Interacting Body: Intra- and Interindividual Processes During Imitation. <i>Journal of Cognitive Education and Psychology</i> , 2014 , 13, 163-175	0.4	6
44	A systematic analysis of ICSD-3 diagnostic criteria and proposal for further structured iteration. <i>Sleep Medicine Reviews</i> , 2021 , 58, 101439	10.2	6

43	Interpersonal Synchrony: From Social Perception to Social Interaction	202-212	5
42	Maternal chemosignals enhance infant-adult brain-to-brain synchrony. <i>Science Advances</i> , 2021 , 7, eabg6867		5
41	Dark Control: Towards a Unified Account of Default Mode Function by Markov Decision Processes		5
40	The Regulation of Task Performance: A Trans-Disciplinary Review. <i>Frontiers in Psychology</i> , 2015 , 6, 1862	3-4	5
39	Reciprocity and alignment: quantifying coupling in dynamic interactions		4
38	Imbalanced social-communicative and restricted repetitive behavior subtypes of autism spectrum disorder exhibit different neural circuitry. <i>Communications Biology</i> , 2021 , 4, 574	6-7	4
37	From generative models to generative passages: A computational approach to (neuro)phenomenology		4
36	Coordination dynamics: Bidirectional coupling between humans, machines and brains	2014 ,	3
35	The meaning of significant mean group differences for biomarker discovery. <i>PLoS Computational Biology</i> , 2021 , 17, e1009477	5	3
34	#EEGManyLabs: Investigating the Replicability of Influential EEG Experiments		3
33	HyPyP: a Hyperscanning Python Pipeline for inter-brain connectivity analysis		3
32	Médecine du sommeil personnalisée et syndrome d'apnées hypopnées obstructives du sommeil : entre précision et stratification, une proposition de clarification. <i>Médecine Du Sommeil</i> , 2020 , 17, 213-230	0-5	3
31	Comment on Starke et al.: 'Computing schizophrenia: ethical challenges for machine learning in psychiatry': from machine learning to student learning: pedagogical challenges for psychiatry. <i>Psychological Medicine</i> , 2021 , 51, 2509-2511	6-9	3
30	Personalized Medicine for OSA Syndrome in a Nutshell: Conceptual Clarification for Integration. <i>Chest</i> , 2021 , 159, 451-452	5-3	3
29	Mass-spectrometry analysis of the human pineal proteome during night and day and in autism. <i>Journal of Pineal Research</i> , 2021 , 70, e12713	10-4	3
28	"Social physiology" for psychiatric semiology: How TTOM can initiate an interactive turn for computational psychiatry?. <i>Behavioral and Brain Sciences</i> , 2020 , 43, e102	0-9	2
27	The Evolving Nature of Social Network Research: A Commentary to Gleibs (2014). <i>Analyses of Social Issues and Public Policy</i> , 2014 , 14, 374-378	0-9	2
26	Dissecting the heterogeneous cortical anatomy of autism spectrum disorder using normative models		2

25	Les trois cultures de la psychiatrie computationnelle. <i>Annales Medico-Psychologiques</i> , 2021 , 179, 63-71	0.2	2
24	The Human Dynamic Clamp: A Probe for Coordination Across Neural, Behavioral, and Social Scales 2018 , 317-332		2
23	Hybrid Harmony: A Multi-Person Neurofeedback Application for Interpersonal Synchrony. <i>Frontiers in Neuroergonomics</i> , 2021 , 2,	5.3	2
22	Interindividual Differences in Cortical Thickness and Their Genomic Underpinnings in Autism Spectrum Disorder. <i>American Journal of Psychiatry</i> , 2021 , appiajp202120050630	11.9	2
21	Why do sleep disorders belong to mental disorder classifications? A network analysis of the "Sleep-Wake Disorders" section of the DSM-5. <i>Journal of Psychiatric Research</i> , 2021 , 142, 153-159	5.2	2
20	De la clinique au « terrain fiévreux et palpitant de la vie » : une mise en perspective psychiatrique de la physiologie clinique. <i>Annales Medico-Psychologiques</i> , 2017 , 175, 70-85	0.2	1
19	Interactive Psychometrics for Autism With the Human Dynamic Clamp: Interpersonal Synchrony From Sensorimotor to Sociocognitive Domains. <i>Frontiers in Psychiatry</i> , 2020 , 11, 510366	5	1
18	The Human Dynamic Clamp reveals the fronto-parietal network linking real-time social coordination and cognition		1
17	Systematic detection of brain protein-coding genes under positive selection during primate evolution and their roles in cognition		1
16	Experimenting with reproducibility in bioinformatics		1
15	Neuropsychiatric mutations delineate functional brain connectivity dimensions contributing to autism and schizophrenia		1
14	Vers une approche physiologique de la séméiologie en psychiatrie. Partie 2 : perspectives offertes par la biologie systémique. <i>Annales Medico-Psychologiques</i> , 2019 , 177, 289-294	0.2	1
13	Symptom network analysis of the sleep disorders diagnostic criteria based on the clinical text of the ICSD-3. <i>Journal of Sleep Research</i> , 2021 , e13435	5.8	1
12	From inter-brain connectivity to inter-personal psychiatry.. <i>World Psychiatry</i> , 2022 , 21, 214-215	14.4	1
11	Learning Brain Dynamics With Coupled Low-Dimensional Nonlinear Oscillators and Deep Recurrent Networks. <i>Neural Computation</i> , 2021 , 33, 2087-2127	2.9	0
10	Neurobiological Correlates of Change in Adaptive Behavior in Autism.. <i>American Journal of Psychiatry</i> , 2022 , appiajp21070711	11.9	0
9	From Generative Models to Generative Passages: A Computational Approach to (Neuro) Phenomenology.. <i>Review of Philosophy and Psychology</i> , 2022 , 1-29	1.4	0
8	Preference for biological motion is reduced in ASD: implications for clinical trials and the search for biomarkers.. <i>Molecular Autism</i> , 2021 , 12, 74	6.5	0

7	Early Transcriptional Changes in Rabies Virus-Infected Neurons and Their Impact on Neuronal Functions.. <i>Frontiers in Microbiology</i> , 2021 , 12, 730892	5.7	o
6	Resting state EEG power spectrum and functional connectivity in autism: a cross-sectional analysis.. <i>Molecular Autism</i> , 2022 , 13, 22	6.5	o
5	How Can Digital Mental Health Enhance Psychiatry?. <i>Neuroscientist</i> ,107385842210986	7.6	o
4	Dans le cerveau des autistes 2018 , N° 105, 54-58		
3	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. <i>Psychological Medicine</i> , 2021 , 51, 2514	6.9	
2	Electro-clinical features in epileptic children with chromosome 15q duplication syndrome. <i>Clinical Neurophysiology</i> , 2021 , 132, 1126-1137	4.3	
1	Vers une approche physiologique de la sñhiologie en psychiatrie. Partie 1 : approches RDC, DSM, RDoC et HiTOP. <i>Annales Medico-Psychologiques</i> , 2019 , 177, 282-288	0.2	