Olivier Coulon

List of Publications by Year
in descending order

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68	2,101	236833 25	265120 42
papers	citations	h-index	g-index

73	73	73	3360
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Diffusion tensor imaging in Parkinson's disease: Review and meta-analysis. NeuroImage: Clinical, 2017, 16, 98-110.	1.4	208
2	New human-specific brain landmark: The depth asymmetry of superior temporal sulcus. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1208-1213.	3.3	157
3	Use of brain diffusion tensor imaging for the prediction of long-term neurological outcomes in patients after cardiac arrest: a multicentre, international, prospective, observational, cohort study. Lancet Neurology, The, 2018, 17, 317-326.	4.9	126
4	Disrupting the right prefrontal cortex alters moral judgement. Social Cognitive and Affective Neuroscience, 2012, 7, 282-288.	1.5	98
5	Accelerating the Evolution of Nonhuman Primate Neuroimaging. Neuron, 2020, 105, 600-603.	3.8	92
6	Genetics of primary cerebral gyrification: Heritability of length, depth and area of primary sulci in an extended pedigree of Papio baboons. NeuroImage, 2010, 53, 1126-1134.	2.1	90
7	Diffusion tensor magnetic resonance image regularization. Medical Image Analysis, 2004, 8, 47-67.	7.0	82
8	The Central Sulcus: an Observer-Independent Characterization of Sulcal Landmarks and Depth Asymmetry. Cerebral Cortex, 2008, 18, 1999-2009.	1.6	82
9	Quantification of spinal cord atrophy from magnetic resonance images via a B-spline active surface model. Magnetic Resonance in Medicine, 2002, 47, 1176-1185.	1.9	64
10	Model-Driven Harmonic Parameterization of the Cortical Surface: HIP-HOP. IEEE Transactions on Medical Imaging, 2013, 32, 873-887.	5.4	61
11	MarsAtlas: A cortical parcellation atlas for functional mapping. Human Brain Mapping, 2016, 37, 1573-1592.	1.9	59
12	Genetic Influence on the Sulcal Pits: On the Origin of the First Cortical Folds. Cerebral Cortex, 2018, 28, 1922-1933.	1.6	59
13	Deep sulcal landmarks: Algorithmic and conceptual improvements in the definition and extraction of sulcal pits. NeuroImage, 2015, 111, 12-25.	2.1	54
14	The average baboon brain: MRI templates and tissue probability maps from 89 individuals. NeuroImage, 2016, 132, 526-533.	2.1	48
15	Evolution of the Central Sulcus Morphology in Primates. Brain, Behavior and Evolution, 2014, 84, 19-30.	0.9	47
16	Robust brain segmentation using histogram scale-space analysis and mathematical morphology. Lecture Notes in Computer Science, 1998, , 1230-1241.	1.0	44
17	Imaging evolution of the primate brain: the next frontier?. NeuroImage, 2021, 228, 117685.	2.1	43
18	Dynamic Reconfiguration of Visuomotor-Related Functional Connectivity Networks. Journal of Neuroscience, 2017, 37, 839-853.	1.7	42

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19	Handedness in monkeys reflects hemispheric specialization within the central sulcus. An inÂvivo MRI study in right- and left-handed olive baboons. Cortex, 2019, 118, 203-211.	1.1	37
20	Motor skill for tool-use is associated with asymmetries in Brocaâ€™s area and the motor hand area of the precentral gyrus in chimpanzees (Pan troglodytes). Behavioural Brain Research, 2017, 318, 71-81.	1.2	36
21	Structural Group Analysis of Functional Activation Maps. NeuroImage, 2000, 11, 767-782.	2.1	33
22	Coordinate-based versus structural approaches to brain image analysis. Artificial Intelligence in Medicine, 2004, 30, 177-197.	3.8	33
23	Automatic sulcal line extraction on cortical surfaces using geodesic path density maps. NeuroImage, 2012, 61, 941-949.	2.1	30
24	Anatomo-functional correspondence in the superior temporal sulcus. Brain Structure and Function, 2018, 223, 221-232.	1.2	30
25	Cervical spinal cord MTR histogram analysis in multiple sclerosis using a 3D acquisition and a B-spline active surface segmentation technique. Magnetic Resonance Imaging, 2004, 22, 891-895.	1.0	27
26	The chaotic morphology of the left superior temporal sulcus is genetically constrained. NeuroImage, 2018, 174, 297-307.	2.1	27
27	Projection of fMRI data onto the cortical surface using anatomically-informed convolution kernels. NeuroImage, 2008, 39, 127-135.	2.1	26
28	Subclinical Abnormal Gyration Pattern, a Potential Anatomic Marker of Epileptogenic Zone in Patients With Magnetic Resonance Imagingâ€“Negative Frontal Lobe Epilepsy. Neurosurgery, 2011, 69, 80-94.	0.6	26
29	Observer-independent characterization of sulcal landmarks and depth asymmetry in the central sulcus of the chimpanzee brain. Neuroscience, 2010, 171, 544-551.	1.1	24
30	Spatial normalization of brain images and beyond. Medical Image Analysis, 2016, 33, 127-133.	7.0	24
31	Application of a B-spline active surface technique to the measurement of cervical cord volume in multiple sclerosis from three-dimensional MR images. Journal of Magnetic Resonance Imaging, 2003, 18, 368-371.	1.9	23
32	Model-driven parameterization of the cortical surface for localization and inter-subject matching. NeuroImage, 2010, 50, 552-566.	2.1	23
33	Diffusion MRI: Assessment of the Impact of Acquisition and Preprocessing Methods Using the BrainVISA-Diffuse Toolbox. Frontiers in Neuroscience, 2019, 13, 536.	1.4	18
34	Genetic Factors and Orofacial Motor Learning Selectively Influence Variability in Central Sulcus Morphology in Chimpanzees (Pan troglodytes). Journal of Neuroscience, 2017, 37, 5475-5483.	1.7	17
35	Two new stable anatomical landmarks on the Central Sulcus: Definition, automatic detection, and their relationship with primary motor functions of the hand. , 2011, 2011, 7795-8.		16
36	Anatomically Constrained Surface Parameterization for Cortical Localization. Lecture Notes in Computer Science, 2005, 8, 344-351.	1.0	16

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37	Structural graph-based morphometry: A multiscale searchlight framework based on sulcal pits. Medical Image Analysis, 2017, 35, 32-45.	7.0	13
38	The Arcuate Fasciculus and language origins: Disentangling existing conceptions that influence evolutionary accounts. Neuroscience and Biobehavioral Reviews, 2022, 134, 104490.	2.9	13
39	U-shape short-range extrinsic connectivity organisation around the human central sulcus. Brain Structure and Function, 2021, 226, 179-193.	1.2	12
40	Plis de passage in the superior temporal sulcus: Morphology and local connectivity. NeuroImage, 2021, 225, 117513.	2.1	12
41	Quasi-isometric length parameterization of cortical sulci: Application to handedness and the central sulcus morphology. , 2015, , .		11
42	Local Spectral Analysis of the Cerebral Cortex: New Gyrification Indices. IEEE Transactions on Medical Imaging, 2017, 36, 838-848.	5.4	11
43	A New Cortical Surface Parcellation Model and Its Automatic Implementation. Lecture Notes in Computer Science, 2006, 9, 193-200.	1.0	10
44	A comparative assessment of handedness and its potential neuroanatomical correlates in chimpanzees (Pan troglodytes) and bonobos (Pan paniscus). Behaviour, 2015, 152, 461-492.	0.4	8
45	Multiscale measures in linear scale-space for characterizing cerebral functional activations in 3D PET difference images. Lecture Notes in Computer Science, 1997, , 188-199.	1.0	8
46	Fast surface-based measurements using first eigenfunction of the Laplace-Beltrami Operator: Interest for sulcal description. , 2012, , .		6
47	Sulci as Landmarks. , 2015, , 45-52.		6
48	Browsing Multiple Subjects When the Atlas Adaptation Cannot Be Achieved via a Warping Strategy. Frontiers in Neuroinformatics, 2022, 16, 803934.	1.3	6
49	Surface-Based Structural Group Analysis of fMRI Data. Lecture Notes in Computer Science, 2008, 11, 959-966.	1.0	5
50	Model-driven parameterization of fetal cortical surfaces. , 2015, , .		4
51	Dense and structured representations of U-shape fiber connectivity in the central sulcus. , 2018, , .		4
52	Model-Driven Harmonic Parameterization of the Cortical Surface. Lecture Notes in Computer Science, 2011, 14, 310-317.	1.0	4
53	Structural group analysis of cortical curvature and depth patterns in the developing brain. , 2012, , .		3
54	Structural analysis of fMRI data: A surface-based framework for multi-subject studies. Medical Image Analysis, 2012, 16, 976-990.	7.0	3

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55	Anatomically Informed Convolution Kernels for the Projection of fMRI Data on the Cortical Surface. Lecture Notes in Computer Science, 2006, 9, 300-307.	1.0	3
56	The graph windowed Fourier transform: a tool to quantify the gyrification of the cerebral cortex. , 2015, , .		3
57	Benchmark data for sulcal pits extraction algorithms. Data in Brief, 2015, 5, 595-598.	0.5	2
58	Dynamic Reconfiguration of Visuomotor-Related Functional Connectivity Networks. Journal of Neuroscience, 2017, 37, 839-853.	1.7	2
59	ISA - an inverse surface-based approach for cortical fMRI data projection. , 2017, , .		2
60	Developmental changes of the central sulcus morphology in young children. Brain Structure and Function, 2021, 226, 1841-1853.	1.2	2
61	Structural Group Analysis of Functional Maps. Lecture Notes in Computer Science, 1999, , 448-453.	1.0	2
62	Towards an Anatomically Meaningful Parameterization of the Cortical Surface. Lecture Notes in Computer Science, 2004, , 1046-1047.	1.0	2
63	A Comprehensive fMRI Processing Toolbox for BrainVISA. NeuroImage, 2009, 47, S55.	2.1	1
64	Characterization of the central sulcus in the brain in early childhood. , 2015, 2015, 149-52.		1
65	Place de l'anatomie dans la cartographie fonctionnelle du cerveau. Annales De L'Institut Pasteur / ActualitÃ©s, 1998, 9, 243-258.	0.1	0
66	Automatic extraction of sulcal lines on the cortical surface using shortest path probability maps. , 2011, 2011, 5165-8.		0
67	Automatic Detection of Plis De Passage in the Superior Temporal Sulcus using Surface Profiling and Ensemble SVM. , 2021, , .		0
68	Group Analysis of Individual Activation Maps Using 3D Scale-Space Primal Sketches and a Markovian Random Field. Lecture Notes in Statistics, 2001, , 201-212.	0.1	0