

Olivier Coulon

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,101
citations

236833

25
h-index

265120

42
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73
all docs

73
docs citations

73
times ranked

3360
citing authors

#	ARTICLE	IF	CITATIONS
1	The Arcuate Fasciculus and language origins: Disentangling existing conceptions that influence evolutionary accounts. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 134, 104490.	2.9	13
2	Browsing Multiple Subjects When the Atlas Adaptation Cannot Be Achieved via a Warping Strategy. <i>Frontiers in Neuroinformatics</i> , 2022, 16, 803934.	1.3	6
3	U-shape short-range extrinsic connectivity organisation around the human central sulcus. <i>Brain Structure and Function</i> , 2021, 226, 179-193.	1.2	12
4	Plis de passage in the superior temporal sulcus: Morphology and local connectivity. <i>NeuroImage</i> , 2021, 225, 117513.	2.1	12
5	Imaging evolution of the primate brain: the next frontier?. <i>NeuroImage</i> , 2021, 228, 117685.	2.1	43
6	Automatic Detection of Plis De Passage in the Superior Temporal Sulcus using Surface Profiling and Ensemble SVM. , 2021, , .		0
7	Developmental changes of the central sulcus morphology in young children. <i>Brain Structure and Function</i> , 2021, 226, 1841-1853.	1.2	2
8	Accelerating the Evolution of Nonhuman Primate Neuroimaging. <i>Neuron</i> , 2020, 105, 600-603.	3.8	92
9	Diffusion MRI: Assessment of the Impact of Acquisition and Preprocessing Methods Using the BrainVISA-Diffuse Toolbox. <i>Frontiers in Neuroscience</i> , 2019, 13, 536.	1.4	18
10	Handedness in monkeys reflects hemispheric specialization within the central sulcus. An inÂvivo MRI study in right- and left-handed olive baboons. <i>Cortex</i> , 2019, 118, 203-211.	1.1	37
11	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. <i>Lancet Neurology</i> , The, 2018, 17, 317-326.	4.9	126
12	The chaotic morphology of the left superior temporal sulcus is genetically constrained. <i>NeuroImage</i> , 2018, 174, 297-307.	2.1	27
13	Genetic Influence on the Sulcal Pits: On the Origin of the First Cortical Folds. <i>Cerebral Cortex</i> , 2018, 28, 1922-1933.	1.6	59
14	Anatomo-functional correspondence in the superior temporal sulcus. <i>Brain Structure and Function</i> , 2018, 223, 221-232.	1.2	30
15	Dense and structured representations of U-shape fiber connectivity in the central sulcus. , 2018, , .		4
16	Structural graph-based morphometry: A multiscale searchlight framework based on sulcal pits. <i>Medical Image Analysis</i> , 2017, 35, 32-45.	7.0	13
17	Dynamic Reconfiguration of Visuomotor-Related Functional Connectivity Networks. <i>Journal of Neuroscience</i> , 2017, 37, 839-853.	1.7	2
18	Genetic Factors and Orofacial Motor Learning Selectively Influence Variability in Central Sulcus Morphology in Chimpanzees (<i>Pan troglodytes</i>). <i>Journal of Neuroscience</i> , 2017, 37, 5475-5483.	1.7	17

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19	Local Spectral Analysis of the Cerebral Cortex: New Gyrfication Indices. IEEE Transactions on Medical Imaging, 2017, 36, 838-848.	5.4	11
20	Dynamic Reconfiguration of Visuomotor-Related Functional Connectivity Networks. Journal of Neuroscience, 2017, 37, 839-853.	1.7	42
21	Diffusion tensor imaging in Parkinson's disease: Review and meta-analysis. NeuroImage: Clinical, 2017, 16, 98-110.	1.4	208
22	ISA - an inverse surface-based approach for cortical fMRI data projection. , 2017, , .		2
23	Motor skill for tool-use is associated with asymmetries in Broca'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
24	Spatial normalization of brain images and beyond. Medical Image Analysis, 2016, 33, 127-133.	7.0	24
25	MarsAtlas: A cortical parcellation atlas for functional mapping. Human Brain Mapping, 2016, 37, 1573-1592.	1.9	59
26	The average baboon brain: MRI templates and tissue probability maps from 89 individuals. NeuroImage, 2016, 132, 526-533.	2.1	48
27	Characterization of the central sulcus in the brain in early childhood. , 2015, 2015, 149-52.		1
28	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
29	Model-driven parameterization of fetal cortical surfaces. , 2015, , .		4
30	Quasi-isometric length parameterization of cortical sulci: Application to handedness and the central sulcus morphology. , 2015, , .		11
31	Benchmark data for sulcal pits extraction algorithms. Data in Brief, 2015, 5, 595-598.	0.5	2
32	Deep sulcal landmarks: Algorithmic and conceptual improvements in the definition and extraction of sulcal pits. NeuroImage, 2015, 111, 12-25.	2.1	54
33	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
34	Sulci as Landmarks. , 2015, , 45-52.		6
35	The graph windowed Fourier transform: a tool to quantify the gyrfication of the cerebral cortex. , 2015, , .		3
36	Evolution of the Central Sulcus Morphology in Primates. Brain, Behavior and Evolution, 2014, 84, 19-30.	0.9	47

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37	Model-Driven Harmonic Parameterization of the Cortical Surface: HIP-HOP. IEEE Transactions on Medical Imaging, 2013, 32, 873-887.	5.4	61
38	Disrupting the right prefrontal cortex alters moral judgement. Social Cognitive and Affective Neuroscience, 2012, 7, 282-288.	1.5	98
39	Fast surface-based measurements using first eigenfunction of the Laplace-Beltrami Operator: Interest for sulcal description. , 2012, , .		6
40	Structural group analysis of cortical curvature and depth patterns in the developing brain. , 2012, , .		3
41	Structural analysis of fMRI data: A surface-based framework for multi-subject studies. Medical Image Analysis, 2012, 16, 976-990.	7.0	3
42	Automatic sulcal line extraction on cortical surfaces using geodesic path density maps. NeuroImage, 2012, 61, 941-949.	2.1	30
43	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
44	Automatic extraction of sulcal lines on the cortical surface using shortest path probability maps. , 2011, 2011, 5165-8.		0
45	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
46	Model-Driven Harmonic Parameterization of the Cortical Surface. Lecture Notes in Computer Science, 2011, 14, 310-317.	1.0	4
47	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
48	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
49	Model-driven parameterization of the cortical surface for localization and inter-subject matching. NeuroImage, 2010, 50, 552-566.	2.1	23
50	A Comprehensive fMRI Processing Toolbox for BrainVISA. NeuroImage, 2009, 47, S55.	2.1	1
51	Projection of fMRI data onto the cortical surface using anatomically-informed convolution kernels. NeuroImage, 2008, 39, 127-135.	2.1	26
52	The Central Sulcus: an Observer-Independent Characterization of Sulcal Landmarks and Depth Asymmetry. Cerebral Cortex, 2008, 18, 1999-2009.	1.6	82
53	Surface-Based Structural Group Analysis of fMRI Data. Lecture Notes in Computer Science, 2008, 11, 959-966.	1.0	5
54	A New Cortical Surface Parcellation Model and Its Automatic Implementation. Lecture Notes in Computer Science, 2006, 9, 193-200.	1.0	10

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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	Anatomically Constrained Surface Parameterization for Cortical Localization. Lecture Notes in Computer Science, 2005, 8, 344-351.	1.0	16
57	Coordinate-based versus structural approaches to brain image analysis. Artificial Intelligence in Medicine, 2004, 30, 177-197.	3.8	33
58	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
59	Diffusion tensor magnetic resonance image regularization. Medical Image Analysis, 2004, 8, 47-67.	7.0	82
60	Towards an Anatomically Meaningful Parameterization of the Cortical Surface. Lecture Notes in Computer Science, 2004, , 1046-1047.	1.0	2
61	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
62	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
63	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
64	Structural Group Analysis of Functional Activation Maps. NeuroImage, 2000, 11, 767-782.	2.1	33
65	Structural Group Analysis of Functional Maps. Lecture Notes in Computer Science, 1999, , 448-453.	1.0	2
66	Robust brain segmentation using histogram scale-space analysis and mathematical morphology. Lecture Notes in Computer Science, 1998, , 1230-1241.	1.0	44
67	Place de l'anatomie dans la cartographie fonctionnelle du cerveau. Annales De L'Institut Pasteur / Actualit�s, 1998, 9, 243-258.	0.1	0
68	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