

Vladimir S Fonov

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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.

133
papers

6,980
citations

40
h-index

82
g-index

154
ext. papers

8,933
ext. citations

5.6
avg, IF

5.62
L-index

#	Paper	IF	Citations
133	Unbiased average age-appropriate atlases for pediatric studies. <i>NeuroImage</i> , 2011 , 54, 313-27	7.9	1208
132	Patch-based segmentation using expert priors: application to hippocampus and ventricle segmentation. <i>NeuroImage</i> , 2011 , 54, 940-54	7.9	566
131	Early brain development in infants at high risk for autism spectrum disorder. <i>Nature</i> , 2017 , 542, 348-351	50.4	552
130	BEaST: brain extraction based on nonlocal segmentation technique. <i>NeuroImage</i> , 2012 , 59, 2362-73	7.9	339
129	SCT: Spinal Cord Toolbox, an open-source software for processing spinal cord MRI data. <i>NeuroImage</i> , 2017 , 145, 24-43	7.9	216
128	Standardized evaluation of algorithms for computer-aided diagnosis of dementia based on structural MRI: the CADDementia challenge. <i>NeuroImage</i> , 2015 , 111, 562-79	7.9	193
127	Prediction of Alzheimer's disease in subjects with mild cognitive impairment from the ADNI cohort using patterns of cortical thinning. <i>NeuroImage</i> , 2013 , 65, 511-21	7.9	176
126	Non-local MRI upsampling. <i>Medical Image Analysis</i> , 2010 , 14, 784-92	15.4	168
125	Increased Extra-axial Cerebrospinal Fluid in High-Risk Infants Who Later Develop Autism. <i>Biological Psychiatry</i> , 2017 , 82, 186-193	7.9	127
124	Network connectivity determines cortical thinning in early Parkinson's disease progression. <i>Nature Communications</i> , 2018 , 9, 12	17.4	113
123	Anxious/depressed symptoms are linked to right ventromedial prefrontal cortical thickness maturation in healthy children and young adults. <i>Cerebral Cortex</i> , 2014 , 24, 2941-50	5.1	113
122	Network structure of brain atrophy in de novo Parkinson's disease. <i>ELife</i> , 2015 , 4,	8.9	112
121	The effect of template choice on morphometric analysis of pediatric brain data. <i>NeuroImage</i> , 2009 , 45, 769-77	7.9	109
120	A new method for structural volume analysis of longitudinal brain MRI data and its application in studying the growth trajectories of anatomical brain structures in childhood. <i>NeuroImage</i> , 2013 , 82, 393-402	7.9	107
119	Simultaneous segmentation and grading of anatomical structures for patient's classification: application to Alzheimer's disease. <i>NeuroImage</i> , 2012 , 59, 3736-47	7.9	107
118	Structural imaging biomarkers of Alzheimer's disease: predicting disease progression. <i>Neurobiology of Aging</i> , 2015 , 36 Suppl 1, S23-31	5.6	83
117	Neural circuitry at age 6 months associated with later repetitive behavior and sensory responsiveness in autism. <i>Molecular Autism</i> , 2017 , 8, 8	6.5	82

116	Scoring by nonlocal image patch estimator for early detection of Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2012 , 1, 141-52	5.3	82
115	Framework for integrated MRI average of the spinal cord white and gray matter: the MNI-Poly-AMU template. <i>NeuroImage</i> , 2014 , 102 Pt 2, 817-27	7.9	81
114	Childhood cognitive ability accounts for associations between cognitive ability and brain cortical thickness in old age. <i>Molecular Psychiatry</i> , 2014 , 19, 555-9	15.1	80
113	Onset of multiple sclerosis before adulthood leads to failure of age-expected brain growth. <i>Neurology</i> , 2014 , 83, 2140-6	6.5	80
112	CERES: A new cerebellum lobule segmentation method. <i>NeuroImage</i> , 2017 , 147, 916-924	7.9	73
111	PAM50: Unbiased multimodal template of the brainstem and spinal cord aligned with the ICBM152 space. <i>NeuroImage</i> , 2018 , 165, 170-179	7.9	71
110	Benchmark on Automatic 6-month-old Infant Brain Segmentation Algorithms: The iSeg-2017 Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2019 ,	11.7	69
109	The Emergence of Network Inefficiencies in Infants With Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2017 , 82, 176-185	7.9	65
108	Gradient distortions in MRI: characterizing and correcting for their effects on SIENA-generated measures of brain volume change. <i>NeuroImage</i> , 2010 , 49, 1601-11	7.9	63
107	Reduced head and brain size for age and disproportionately smaller thalami in child-onset MS. <i>Neurology</i> , 2012 , 78, 194-201	6.5	62
106	Identifying incipient dementia individuals using machine learning and amyloid imaging. <i>Neurobiology of Aging</i> , 2017 , 59, 80-90	5.6	61
105	Regional brain atrophy in children with multiple sclerosis. <i>NeuroImage</i> , 2011 , 58, 409-15	7.9	61
104	Jacobian integration method increases the statistical power to measure gray matter atrophy in multiple sclerosis. <i>NeuroImage: Clinical</i> , 2014 , 4, 10-7	5.3	59
103	Subcortical Brain and Behavior Phenotypes Differentiate Infants With Autism Versus Language Delay. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017 , 2, 664-672	3.4	55
102	A dataset of multi-contrast population-averaged brain MRI atlases of a Parkinson's disease cohort. <i>Data in Brief</i> , 2017 , 12, 370-379	1.2	53
101	The Canadian Dementia Imaging Protocol: Harmonizing National Cohorts. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, 456-465	5.6	50
100	Assessing atrophy measurement techniques in dementia: Results from the MIRIAD atrophy challenge. <i>NeuroImage</i> , 2015 , 123, 149-64	7.9	48
99	Rotation-invariant multi-contrast non-local means for MS lesion segmentation. <i>NeuroImage: Clinical</i> , 2015 , 8, 376-89	5.3	48

98	A comparison of publicly available linear MRI stereotaxic registration techniques. <i>NeuroImage</i> , 2018 , 174, 191-200	7.9	46
97	Multi-contrast unbiased MRI atlas of a Parkinson's disease population. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 329-41	3.9	44
96	VoxelStats: A MATLAB Package for Multi-Modal Voxel-Wise Brain Image Analysis. <i>Frontiers in Neuroinformatics</i> , 2016 , 10, 20	3.9	44
95	Validation of a Regression Technique for Segmentation of White Matter Hyperintensities in Alzheimer's Disease. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1758-1768	11.7	43
94	Nonrigid registration of ultrasound and MRI using contextual conditioned mutual information. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 708-25	11.7	42
93	Comparing fully automated state-of-the-art cerebellum parcellation from magnetic resonance images. <i>NeuroImage</i> , 2018 , 183, 150-172	7.9	40
92	Performance comparison of 10 different classification techniques in segmenting white matter hyperintensities in aging. <i>NeuroImage</i> , 2017 , 157, 233-249	7.9	40
91	Accurate age classification of 6 and 12 month-old infants based on resting-state functional connectivity magnetic resonance imaging data. <i>Developmental Cognitive Neuroscience</i> , 2015 , 12, 123-33	5.5	40
90	Dissociation between brain amyloid deposition and metabolism in early mild cognitive impairment. <i>PLoS ONE</i> , 2012 , 7, e47905	3.7	40
89	Automated segmentation of basal ganglia and deep brain structures in MRI of Parkinson's disease. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2013 , 8, 99-110	3.9	39
88	MINC 2.0: A Flexible Format for Multi-Modal Images. <i>Frontiers in Neuroinformatics</i> , 2016 , 10, 35	3.9	38
87	A stereotaxic, population-averaged T1w ovine brain atlas including cerebral morphology and tissue volumes. <i>Frontiers in Neuroanatomy</i> , 2015 , 9, 69	3.6	35
86	Monophasic demyelination reduces brain growth in children. <i>Neurology</i> , 2017 , 88, 1744-1750	6.5	34
85	Sex-specific associations of testosterone with prefrontal-hippocampal development and executive function. <i>Psychoneuroendocrinology</i> , 2017 , 76, 206-217	5	34
84	Comparing two approaches to rigid registration of three-dimensional ultrasound and magnetic resonance images for neurosurgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2012 , 7, 125-36	3.9	34
83	Callosal fiber length and interhemispheric connectivity in adults with autism: brain overgrowth and underconnectivity. <i>Human Brain Mapping</i> , 2013 , 34, 1685-95	5.9	33
82	Contribution of the cerebellum to cognitive performance in children and adolescents with multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2016 , 22, 599-607	5	32
81	Rapid automatic segmentation of the human cerebellum and its lobules (RASCAL)--implementation and application of the patch-based label-fusion technique with a template library to segment the human cerebellum. <i>Human Brain Mapping</i> , 2014 , 35, 5026-39	5.9	32

80	Detection of Alzheimer's disease signature in MR images seven years before conversion to dementia: Toward an early individual prognosis. <i>Human Brain Mapping</i> , 2015 , 36, 4758-70	5.9	32
79	A comparison of accurate automatic hippocampal segmentation methods. <i>NeuroImage</i> , 2017 , 155, 383-393	3.3	31
78	Subjective Cognitive Decline Is Associated With Altered Default Mode Network Connectivity in Individuals With a Family History of Alzheimer's Disease. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018 , 3, 463-472	3.4	30
77	The development of optical techniques for the measurement of pressure and skin friction. <i>Measurement Science and Technology</i> , 2006 , 17, 1261-1268	2	29
76	Multimodal Imaging in Rat Model Recapitulates Alzheimer's Disease Biomarkers Abnormalities. <i>Journal of Neuroscience</i> , 2017 , 37, 12263-12271	6.6	28
75	Nonlocal patch-based label fusion for hippocampus segmentation. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 129-36	0.9	28
74	Splenium development and early spoken language in human infants. <i>Developmental Science</i> , 2017 , 20, e12360	4.5	27
73	Morphometric changes of the corpus callosum in congenital blindness. <i>PLoS ONE</i> , 2014 , 9, e107871	3.7	26
72	Development of cortical shape in the human brain from 6 to 24months of age via a novel measure of shape complexity. <i>NeuroImage</i> , 2016 , 135, 163-76	7.9	25
71	Test-retest resting-state fMRI in healthy elderly persons with a family history of Alzheimer's disease. <i>Scientific Data</i> , 2015 , 2, 150043	8.2	24
70	Resting state executive control network adaptations in amnesic mild cognitive impairment. <i>Journal of Alzheimer's Disease</i> , 2014 , 40, 993-1004	4.3	23
69	Neuroanatomical correlates of behavioral rating versus performance measures of working memory in typically developing children and adolescents. <i>Neuropsychology</i> , 2015 , 29, 82-91	3.8	23
68	Adaptive prior probability and spatial temporal intensity change estimation for segmentation of the one-year-old human brain. <i>Journal of Neuroscience Methods</i> , 2013 , 212, 43-55	3	23
67	White matter abnormalities and structural hippocampal disconnections in amnesic mild cognitive impairment and Alzheimer's disease. <i>PLoS ONE</i> , 2013 , 8, e74776	3.7	23
66	Unbiased age-specific structural brain atlases for Chinese pediatric population. <i>NeuroImage</i> , 2019 , 189, 55-70	7.9	23
65	A longitudinal study of parent-reported sensory responsiveness in toddlers at-risk for autism. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2019 , 60, 314-324	7.9	23
64	Cyberinfrastructure for Open Science at the Montreal Neurological Institute. <i>Frontiers in Neuroinformatics</i> , 2016 , 10, 53	3.9	21
63	Dehydroepiandrosterone impacts working memory by shaping cortico-hippocampal structural covariance during development. <i>Psychoneuroendocrinology</i> , 2017 , 86, 110-121	5	16

62	The developmental relationship between DHEA and visual attention is mediated by structural plasticity of cortico-amygdalar networks. <i>Psychoneuroendocrinology</i> , 2016 , 70, 122-33	5	16
61	Cerebra, registration and manual label correction of Mindboggle-101 atlas for MNI-ICBM152 template. <i>Scientific Data</i> , 2020 , 7, 237	8.2	16
60	Cortical and subcortical T1 white/gray contrast, chronological age, and cognitive performance. <i>NeuroImage</i> , 2019 , 196, 276-288	7.9	15
59	White matter microstructure is associated with hyperactive/inattentive symptomatology and polygenic risk for attention-deficit/hyperactivity disorder in a population-based sample of adolescents. <i>Neuropsychopharmacology</i> , 2019 , 44, 1597-1603	8.7	14
58	Impaired growth of the cerebellum in pediatric-onset acquired CNS demyelinating disease. <i>Multiple Sclerosis Journal</i> , 2016 , 22, 1266-78	5	14
57	Non-Local Means inpainting of MS Lesions in Longitudinal Image Processing. <i>Frontiers in Neuroscience</i> , 2015 , 9, 456	5.1	14
56	Accurate and robust segmentation of neuroanatomy in T1-weighted MRI by combining spatial priors with deep convolutional neural networks. <i>Human Brain Mapping</i> , 2020 , 41, 309-327	5.9	14
55	Automated analysis of multi site MRI phantom data for the NIHPD project. <i>Lecture Notes in Computer Science</i> , 2006 , 9, 144-51	0.9	14
54	Patch-based label fusion segmentation of brainstem structures with dual-contrast MRI for Parkinson's disease. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 1029-41	3.9	13
53	Improved Precision in the Measurement of Longitudinal Global and Regional Volumetric Changes via a Novel MRI Gradient Distortion Characterization and Correction Technique. <i>Lecture Notes in Computer Science</i> , 2010 , 324-333	0.9	13
52	Human brain myelination from birth to 4.5 years. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 180-7	0.9	11
51	Detection and clinical correlation of leukocortical lesions in pediatric-onset multiple sclerosis on multi-contrast MRI. <i>Multiple Sclerosis Journal</i> , 2019 , 25, 980-986	5	9
50	Simultaneous segmentation and grading of hippocampus for patient classification with Alzheimer's disease. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 149-57	0.9	9
49	Interhemispheric coupling improves the brain's ability to perform low cognitive demand tasks in Alzheimer's disease and high cognitive demand tasks in normal aging. <i>Neuropsychology</i> , 2013 , 27, 464-80	3.8	8
48	Newborn amygdalar volumes are associated with maternal prenatal psychological distress in a sex-dependent way. <i>NeuroImage: Clinical</i> , 2020 , 28, 102380	5.3	8
47	Spatio-Temporal Regularization for Longitudinal Registration to Subject-Specific 3d Template. <i>PLoS ONE</i> , 2015 , 10, e0133352	3.7	7
46	Developmental trajectories of neuroanatomical alterations associated with the 16p11.2 Copy Number Variations. <i>NeuroImage</i> , 2019 , 203, 116155	7.9	6
45	Lift and Drag Characteristics of a Blended-Wing Body Aircraft. <i>Journal of Aircraft</i> , 2007 , 44, 1409-1421	1.6	6

44	MRI and cognitive scores complement each other to accurately predict Alzheimer's dementia 2 to 7 years before clinical onset. <i>NeuroImage: Clinical</i> , 2020 , 25, 102121	5.3	6
43	The EADC-ADNI harmonized protocol for hippocampal segmentation: A validation study. <i>NeuroImage</i> , 2018 , 181, 142-148	7.9	6
42	Brain volume loss in individuals over time: Source of variance and limits of detectability. <i>NeuroImage</i> , 2020 , 214, 116737	7.9	5
41	White matter degeneration profile in the cognitive cortico-subcortical tracts in Parkinson's disease. <i>Movement Disorders</i> , 2018 , 33, 1139-1150	7	5
40	A new template to study callosal growth shows specific growth in anterior and posterior regions of the corpus callosum in early childhood. <i>European Journal of Neuroscience</i> , 2015 , 42, 1675-84	3.5	4
39	Atlas-based clustering of sulcal patterns Application to the left inferior frontal sulcus 2012 ,		4
38	Deep learning of quality control for stereotaxic registration of human brain MRI		4
37	Amygdalar reactivity is associated with prefrontal cortical thickness in a large population-based sample of adolescents. <i>PLoS ONE</i> , 2019 , 14, e0216152	3.7	3
36	Towards Automatic Collateral Circulation Score Evaluation in Ischemic Stroke Using Image Decompositions and Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2017 , 158-167	0.9	3
35	Using Surface Stress Sensitive Films for Pressure and Friction Measurements in Mini- and Micro-Channels 2007 ,		3
34	Rigid Registration of 3D Ultrasound and MRI: Comparing Two Approaches on Nine Tumor Cases. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 33-43		3
33	A voxel-wise assessment of growth differences in infants developing autism spectrum disorder. <i>NeuroImage: Clinical</i> , 2021 , 29, 102551	5.3	3
32	Age-specific associations between oestradiol, cortico-amygdalar structural covariance, and verbal and spatial skills. <i>Journal of Neuroendocrinology</i> , 2019 , 31, e12698	3.8	2
31	An augmented-reality system prototype for guiding transcranial Doppler ultrasound examination. <i>Multimedia Tools and Applications</i> , 2018 , 77, 27789-27805	2.5	2
30	IC-P-150: A UNIFIED ASSESSMENT OF FULLY AUTOMATED HIPPOCAMPUS SEGMENTATION METHODS 2014 , 10, P86-P86		2
29	SNIFE score can capture prodromal Alzheimer's in cognitively normal subjects		2
28	BIC Defacing Algorithm		2
27	Neonatal amygdala volumes and the development of self-regulation from early infancy to toddlerhood. <i>Neuropsychology</i> , 2021 , 35, 285-299	3.8	2

26	IC-P-099: A quantitative comparison between two manual hippocampal segmentation protocols 2015 , 11, P67-P68		1
25	IC-P-012: Should a global or a regional measure of amyloidosis be used in a longitudinal study? 2015 , 11, P19-P19		1
24	Shape index distribution based local surface complexity applied to the human cortex. <i>Proceedings of SPIE</i> , 2015 , 9413,	1.7	1
23	SPATIAL INTENSITY PRIOR CORRECTION FOR TISSUE SEGMENTATION IN THE DEVELOPING HUMAN BRAIN 2011 , 2049-2052	1.5	1
22	Measurements of Non-Steady Pressure and Skin Friction Fields on Wall Mounted Cube Using Surface Stress Sensitive Film 2007 ,		1
21	A sub+cortical fMRI-based surface parcellation. <i>Human Brain Mapping</i> , 2021 ,	5.9	1
20	A Novel Framework for the Local Extraction of Extra-Axial Cerebrospinal Fluid from MR Brain Images. <i>Proceedings of SPIE</i> , 2018 , 10574,	1.7	1
19	Is It Possible to Differentiate the Impact of Pediatric Monophasic Demyelinating Disorders and Multiple Sclerosis After a First Episode of Demyelination?. <i>Lecture Notes in Computer Science</i> , 2015 , 38-48	8.9	1
18	Atlas-Guided Transcranial Doppler Ultrasound Examination with a Neuro-Surgical Navigation System: Case Study. <i>Lecture Notes in Computer Science</i> , 2016 , 19-27	0.9	1
17	MNI-FTD Templates: Unbiased Average Templates of Frontotemporal Dementia Variants		1
16	Comparison of different methods for average anatomical templates creation: do we really gain anything from a diffeomorphic framework?		1
15	MRI and cognitive scores complement each other to accurately predict Alzheimer's dementia 2 to 7 years before clinical onset		1
14	MRI of Capn15 knockout mice and analysis of Capn 15 distribution reveal possible roles in brain development and plasticity		1
13	Sex-specific association between infant caudate volumes and a polygenic risk score for major depressive disorder. <i>Journal of Neuroscience Research</i> , 2020 , 98, 2529-2540	4.4	1
12	MRI of Capn15 Knockout Mice and Analysis of Capn 15 Distribution Reveal Possible Roles in Brain Development and Plasticity. <i>Neuroscience</i> , 2021 , 465, 128-141	3.9	1
11	MNI-FTD templates, unbiased average templates of frontotemporal dementia variants. <i>Scientific Data</i> , 2021 , 8, 222	8.2	1
10	Regional Cerebellar Volume Loss Predicts Future Disability in Multiple Sclerosis Patients. <i>Cerebellum</i> , 2021 , 1	4.3	1
9	Spatio-temporal Regularization for Longitudinal Registration to an Unbiased 3D Individual Template. <i>Lecture Notes in Computer Science</i> , 2012 , 1-12	0.9	0

- 8 DARQ: Deep learning of quality control for stereotaxic registration of human brain MRI to the T1w MNI-ICBM 152 template.. *NeuroImage*, **2022**, 119266 7.9 0
- 7 P4-097: Should a global or a regional measure of amyloidosis be used in a longitudinal study? **2015**, 11, P811-P811
- 6 IC-P-011: Comparison of global and voxel-based diagnostic classification using [18F]florbetapir ROC estimates **2015**, 11, P18-P19
- 5 P3-180: Comparison of global and voxel-based diagnostic classification using [18F]florbetapir ROC estimates **2015**, 11, P699-P699
- 4 P4-073: A quantitative comparison between two manual hippocampal segmentation protocols **2015**, 11, P797-P798
- 3 O5-01-06: Baseline CSF p-tau and fibrillary amyloid load predict mesial temporal hypometabolism in 24 months' follow-up in cognitively normal subjects **2015**, 11, P314-P315
- 2 A New Framework for Analyzing Structural Volume Changes of Longitudinal Brain MRI Data. *Lecture Notes in Computer Science*, **2012**, 50-62 0.9
- 1 Sex-specific associations between maternal pregnancy-specific anxiety and newborn amygdalar volumes - preliminary findings from the FinnBrain Birth Cohort Study.. *Stress*, **2022**, 25, 213-226 3