Martin A Styner

List of Publications by Year
in descending order

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433 papers	20,445 citations	8749 75 h-index	15249 126 g-index
452 all docs	452 docs citations	452 times ranked	22035 citing authors

#	Article	IF	Citations
1	Comparison and Evaluation of Methods for Liver Segmentation From CT Datasets. IEEE Transactions on Medical Imaging, 2009, 28, 1251-1265.	5.4	848
2	Early brain development in infants at high risk for autism spectrum disorder. Nature, 2017, 542, 348-351.	13.7	808
3	Differences in White Matter Fiber Tract Development Present From 6 to 24 Months in Infants With Autism. American Journal of Psychiatry, 2012, 169, 589-600.	4.0	555
4	Imaging Patients with Psychosis and a Mouse Model Establishes a Spreading Pattern of Hippocampal Dysfunction and Implicates Glutamate as a Driver. Neuron, 2013, 78, 81-93.	3.8	483
5	A comparison of automated segmentation and manual tracing for quantifying hippocampal and amygdala volumes. NeuroImage, 2009, 45, 855-866.	2.1	482
6	Quicksilver: Fast predictive image registration â€“ A deep learning approach. NeuroImage, 2017, 158, 378-396.	2.1	444
7	Early Brain Overgrowth in Autism Associated With an Increase in Cortical Surface Area Before Age 2 Years. Archives of General Psychiatry, 2011, 68, 467.	13.8	384
8	Longitudinal Development of Cortical and Subcortical Gray Matter from Birth to 2 Years. Cerebral Cortex, 2012, 22, 2478-2485.	1.6	377
9	Infant Gut Microbiome Associated With CognitiveÂDevelopment. Biological Psychiatry, 2018, 83, 148-159.	0.7	362
10	Standardized evaluation methodology and reference database for evaluating coronary artery centerline extraction algorithms. Medical Image Analysis, 2009, 13, 701-714.	7.0	295
11	Superimposition of 3D cone-beam CT models of orthognathic surgery patients. Dentomaxillofacial Radiology, 2005, 34, 369-375.	1.3	281
12	Image analysis and superimposition of 3-dimensional cone-beam computed tomography models. American Journal of Orthodontics and Dentofacial Orthopedics, 2006, 129, 611-618.	0.8	274
13	Functional neuroimaging of high-risk 6-month-old infants predicts a diagnosis of autism at 24 months of age. Science Translational Medicine, 2017, 9, .	5.8	264
14	Exposure to severe urban air pollution influences cognitive outcomes, brain volume and systemic inflammation in clinically healthy children. Brain and Cognition, 2011, 77, 345-355.	0.8	256
15	The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. NeuroImage, 2019, 185, 891-905.	2.1	234
16	White Matter Microstructure and Atypical Visual Orienting in 7-Month-Olds at Risk for Autism. American Journal of Psychiatry, 2013, 170, 899-908.	4.0	228
17	Boundary and medial shape analysis of the hippocampus in schizophrenia. Medical Image Analysis, 2004, 8, 197-203.	7.0	224
18	DTIPrep: quality control of diffusion-weighted images. Frontiers in Neuroinformatics, 2014, 8, 4.	1.3	221

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19	Maternal Systemic Interleukin-6 During Pregnancy Is Associated With Newborn Amygdala Phenotypes and Subsequent Behavior at 2 Years of Age. Biological Psychiatry, 2018, 83, 109-119.	0.7	213
20	Evaluation of 3D Correspondence Methods for Model Building. Lecture Notes in Computer Science, 2003, 18, 63-75.	1.0	208
21	Pharyngeal airway volume and shape from cone-beam computed tomography: Relationship to facial morphology. American Journal of Orthodontics and Dentofacial Orthopedics, 2009, 136, 805-814.	0.8	206
22	Functional Connectivity MR Imaging Reveals Cortical Functional Connectivity in the Developing Brain. American Journal of Neuroradiology, 2008, 29, 1883-1889.	1.2	194
23	Quantitative tract-based white matter development from birth to age 2 years. NeuroImage, 2012, 61, 542-557.	2.1	179
24	Adolescent Binge Drinking Alters Adult Brain Neurotransmitter Gene Expression, Behavior, Brain Regional Volumes, and Neurochemistry in Mice. Alcoholism: Clinical and Experimental Research, 2011, 35, 671-688.	1.4	174
25	Increased Extra-axial Cerebrospinal Fluid in High-Risk Infants Who Later Develop Autism. Biological Psychiatry, 2017, 82, 186-193.	0.7	173
26	Three-dimensional cone-beam computed tomography for assessment of mandibular changes after orthognathic surgery. American Journal of Orthodontics and Dentofacial Orthopedics, 2007, 131, 44-50.	0.8	172
27	Objective Evaluation of Multiple Sclerosis Lesion Segmentation using a Data Management and Processing Infrastructure. Scientific Reports, 2018, 8, 13650.	1.6	171
28	Altered corpus callosum morphology associated with autism over the first 2 years of life. Brain, 2015, 138, 2046-2058.	3.7	169
29	A diffusion tensor MRI atlas of the postmortem rhesus macaque brain. NeuroImage, 2015, 117, 408-416.	2.1	169
30	Combined R2* and Diffusion Tensor Imaging Changes in the Substantia Nigra in Parkinson's Disease. Movement Disorders, 2011, 26, 1627-1632.	2.2	163
31	Maternal Influenza Infection During Pregnancy Impacts Postnatal Brain Development in the Rhesus Monkey. Biological Psychiatry, 2010, 67, 965-973.	0.7	161
32	Framework for the Statistical Shape Analysis of Brain Structures using SPHARM-PDM. The Insight Journal, 2006, , 242-250.	0.2	154
33	Maternal Interleukin-6 concentration during pregnancy is associated with variation in frontolimbic white matter and cognitive development in early life. NeuroImage, 2019, 185, 825-835.	2.1	150
34	Adolescent binge ethanol treatment alters adult brain regional volumes, cortical extracellular matrix protein and behavioral flexibility. Pharmacology Biochemistry and Behavior, 2014, 116, 142-151.	1.3	147
35	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. Journal of Neuroimaging, 2015, 25, 875-882.	1.0	147
36	Morphometric analysis of lateral ventricles in schizophrenia and healthy controls regarding genetic and disease-specific factors. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4872-4877.	3.3	146

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37	Comparison of Actual Surgical Outcomes and 3-Dimensional Surgical Simulations. Journal of Oral and Maxillofacial Surgery, 2010, 68, 2412-2421.	0.5	144
38	Canine models of Duchenne muscular dystrophy and their use in therapeutic strategies. Mammalian Genome, 2012, 23, 85-108.	1.0	140
39	Intergenerational Effect of Maternal Exposure to Childhood Maltreatment on Newborn Brain Anatomy. Biological Psychiatry, 2018, 83, 120-127.	0.7	138
40	Maternal Cortisol Concentrations During Pregnancy and Sex-Specific Associations With Neonatal Amygdala Connectivity and Emerging Internalizing Behaviors. Biological Psychiatry, 2019, 85, 172-181.	0.7	135
41	Evaluation of machine learning algorithms for treatment outcome prediction in patients with epilepsy based on structural connectome data. NeuroImage, 2015, 118, 219-230.	2.1	130
42	Magnetic Resonance Microscopy Defines Ethanolâ€Induced Brain Abnormalities in Prenatal Mice: Effects of Acute Insult on Gestational Day 8. Alcoholism: Clinical and Experimental Research, 2009, 33, 1001-1011.	1.4	127
43	Common Variants in Psychiatric Risk Genes Predict Brain Structure at Birth. Cerebral Cortex, 2014, 24, 1230-1246.	1.6	125
44	Bone marrow fat accumulation accelerated by high fat diet is suppressed by exercise. Bone, 2014, 64, 39-46.	1.4	124
45	Quality control of diffusion weighted images. Proceedings of SPIE, 2010, 7628, .	0.8	123
46	Ethanol-Induced Face-Brain Dysmorphology Patterns Are Correlative and Exposure-Stage Dependent. PLoS ONE, 2012, 7, e43067.	1.1	122
47	Shape Modeling and Analysis with Entropy-Based Particle Systems. Lecture Notes in Computer Science, 2007, 20, 333-345.	1.0	118
48	Genetic and environmental contributions to neonatal brain structure: A twin study. Human Brain Mapping, 2010, 31, 1174-1182.	1.9	115
49	Magnetic Resonance Microscopy Defines Ethanolâ€Induced Brain Abnormalities in Prenatal Mice: Effects of Acute Insult on Gestational Day 7. Alcoholism: Clinical and Experimental Research, 2010, 34, 98-111.	1.4	113
50	Three-dimensional surgical simulation. American Journal of Orthodontics and Dentofacial Orthopedics, 2010, 138, 361-371.	0.8	112
51	Neural circuitry at age 6Âmonths associated with later repetitive behavior and sensory responsiveness in autism. Molecular Autism, 2017, 8, 8.	2.6	111
52	DTI registration in atlas based fiber analysis of infantile Krabbe disease. NeuroImage, 2011, 55, 1577-1586.	2.1	110
53	Imaging nigral pathology and clinical progression in Parkinson's disease. Movement Disorders, 2012, 27, 1636-1643.	2.2	107
54	Framework for the Statistical Shape Analysis of Brain Structures using SPHARM-PDM. The Insight Journal, 2006, , .	0.2	107

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55	Joint Attention and Brain Functional Connectivity in Infants and Toddlers. Cerebral Cortex, 2017, 27, 1709-1720.	1.6	103
56	Statistical deformable bone models for robust 3D surface extrapolation from sparse data. Medical Image Analysis, 2007, 11, 99-109.	7.0	102
57	A deep neural network to assess spontaneous pain from mouse facial expressions. Molecular Pain, 2018, 14, 174480691876365.	1.0	102
58	Multi-atlas segmentation of subcortical brain structures via the AutoSeg software pipeline. Frontiers in Neuroinformatics, 2014, 8, 7.	1.3	98
59	Implications of newborn amygdala connectivity for fear and cognitive development at 6-months-of-age. Developmental Cognitive Neuroscience, 2016, 18, 12-25.	1.9	97
60	White Matter Hyperintensities, Systemic Inflammation, Brain Growth, and Cognitive Functions in Children Exposed to Air Pollution. Journal of Alzheimer's Disease, 2012, 31, 183-191.	1.2	95
61	Hippocampal Shape Analysis in Alzheimer's Disease and Frontotemporal Lobar Degeneration Subtypes. Journal of Alzheimer's Disease, 2012, 30, 355-365.	1.2	94
62	The Emergence of Network Inefficiencies in Infants With Autism Spectrum Disorder. Biological Psychiatry, 2017, 82, 176-185.	0.7	93
63	Association of Prenatal Maternal Depression and Anxiety Symptoms With Infant White Matter Microstructure. JAMA Pediatrics, 2018, 172, 973.	3.3	93
64	Cranial base superimposition for 3-dimensional evaluation of soft-tissue changes. American Journal of Orthodontics and Dentofacial Orthopedics, 2010, 137, S120-S129.	0.8	92
65	Maturational Trajectories of Cortical Brain Development through the Pubertal Transition: Unique Species and Sex Differences in the Monkey Revealed through Structural Magnetic Resonance Imaging. Cerebral Cortex, 2010, 20, 1053-1063.	1.6	92
66	Gut microbiome and brain functional connectivity in infants-a preliminary study focusing on the amygdala. Psychopharmacology, 2019, 236, 1641-1651.	1.5	91
67	Shape versus Size: Improved Understanding of the Morphology of Brain Structures. Lecture Notes in Computer Science, 2001, , 24-32.	1.0	90
68	Associations between white matter microstructure and infants' working memory. NeuroImage, 2013, 64, 156-166.	2.1	90
69	Effects of Antenatal Maternal Depressive Symptoms and Socio-Economic Status on Neonatal Brain Development are Modulated by Genetic Risk. Cerebral Cortex, 2017, 27, 3080-3092.	1.6	90
70	Prenatal and Neonatal Brain Structure and White Matter Maturation in Children at High Risk for Schizophrenia. American Journal of Psychiatry, 2010, 167, 1083-1091.	4.0	88
71	Impact of Sex and Gonadal Steroids on Neonatal Brain Structure. Cerebral Cortex, 2014, 24, 2721-2731.	1.6	88
72	Trajectories of Early Brain Volume Development in Fragile X Syndrome and Autism. Journal of the American Academy of Child and Adolescent Psychiatry, 2012, 51, 921-933.	0.3	86

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73	The Paradox of Muscle Hypertrophy in Muscular Dystrophy. Physical Medicine and Rehabilitation Clinics of North America, 2012, 23, 149-172.	0.7	85
74	Brain Volume Findings in 6-Month-Old Infants at High Familial Risk for Autism. American Journal of Psychiatry, 2012, 169, 601-608.	4.0	83
75	3D osteoarthritic changes in TMJ condylar morphology correlates with specific systemic and local biomarkers of disease. Osteoarthritis and Cartilage, 2014, 22, 1657-1667.	0.6	80
76	Brain enlargement and increased behavioral and cytokine reactivity in infant monkeys following acute prenatal endotoxemia. Behavioural Brain Research, 2011, 219, 108-115.	1.2	79
77	Exercise Decreases Marrow Adipose Tissue Through ÃŸ-Oxidation in Obese Running Mice. Journal of Bone and Mineral Research, 2017, 32, 1692-1702.	3.1	78
78	Hippocampus Shape Analysis and Late-Life Depression. PLoS ONE, 2008, 3, e1837.	1.1	77
79	Frontolimbic neural circuitry at 6Âmonths predicts individual differences in joint attention at 9Âmonths. Developmental Science, 2013, 16, 186-197.	1.3	77
80	Postnatal Zika virus infection is associated with persistent abnormalities in brain structure, function, and behavior in infant macaques. Science Translational Medicine, 2018, 10, .	5.8	75
81	Subcortical Brain and Behavior Phenotypes Differentiate Infants With Autism Versus Language Delay. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2017, 2, 664-672.	1.1	71
82	Osteoarthritis of the Temporomandibular Joint can be diagnosed earlier using biomarkers and machine learning. Scientific Reports, 2020, 10, 8012.	1.6	71
83	FADTTS: Functional analysis of diffusion tensor tract statistics. NeuroImage, 2011, 56, 1412-1425.	2.1	66
84	Walking, Gross Motor Development, and Brain Functional Connectivity in Infants and Toddlers. Cerebral Cortex, 2018, 28, 750-763.	1.6	65
85	Automatic and Robust Computation of 3D Medial Models Incorporating Object Variability. International Journal of Computer Vision, 2003, 55, 107-122.	10.9	63
86	Three-dimensional quantification of mandibular asymmetry through cone-beam computerized tomography. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2011, 111, 757-770.	1.6	63
87	The pattern of gray matter atrophy in Parkinsonâ€™s disease differs in cortical and subcortical regions. Journal of Neurology, 2016, 263, 68-75.	1.8	63
88	Diffusion Tensor Imaging Detects Abnormalities in the Corticospinal Tracts of Neonates with Infantile Krabbe Disease. American Journal of Neuroradiology, 2009, 30, 1017-1021.	1.2	60
89	Striatal shape in Parkinson's disease. Neurobiology of Aging, 2013, 34, 2510-2516.	1.5	60
90	Environmental Influences on Infant Cortical Thickness and Surface Area. Cerebral Cortex, 2019, 29, 1139-1149.	1.6	60

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91	Clinical Application of 3D Imaging for Assessment of Treatment Outcomes. Seminars in Orthodontics, 2011, 17, 72-80.	0.8	58
92	Magnetic resonance microscopyâ€based analyses of the brains of normal and ethanolâ€exposed fetal mice. Birth Defects Research Part A: Clinical and Molecular Teratology, 2010, 88, 953-964.	1.6	56
93	Alteration to hippocampal shape in cannabis users with and without schizophrenia. Schizophrenia Research, 2013, 143, 179-184.	1.1	54
94	UNC-Utah NA-MIC framework for DTI fiber tract analysis. Frontiers in Neuroinformatics, 2014, 7, 51.	1.3	54
95	Antenatal depression, treatment with selective serotonin reuptake inhibitors, and neonatal brain structure: A propensity-matched cohort study. Psychiatry Research - Neuroimaging, 2016, 253, 43-53.	0.9	54
96	Clinical application of SPHARM-PDM to quantify temporomandibular joint osteoarthritis. Computerized Medical Imaging and Graphics, 2011, 35, 345-352.	3.5	53
97	Restricted and Repetitive Behavior and Brain Functional Connectivity in Infants at Risk for Developing Autism Spectrum Disorder. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 50-61.	1.1	53
98	Postnatal day 7 ethanol treatment causes persistent reductions in adult mouse brain volume and cortical neurons with sex specific effects on neurogenesis. Alcohol, 2012, 46, 603-612.	0.8	52
99	Exercise Regulation of Marrow Fat in the Setting of PPARÎ³ Agonist Treatment in Female C57BL/6 Mice. Endocrinology, 2015, 156, 2753-2761.	1.4	52
100	Transgenic rhesus monkeys carrying the human MCPH1 gene copies show human-like neoteny of brain development. National Science Review, 2019, 6, 480-493.	4.6	52
101	Sleep Onset Problems and Subcortical Development in Infants Later Diagnosed With Autism Spectrum Disorder. American Journal of Psychiatry, 2020, 177, 518-525.	4.0	52
102	Soft tissue response to mandibular advancement using 3D CBCT scanning. International Journal of Oral and Maxillofacial Surgery, 2011, 40, 353-359.	0.7	51
103	Accurate age classification of 6 and 12 month-old infants based on resting-state functional connectivity magnetic resonance imaging data. Developmental Cognitive Neuroscience, 2015, 12, 123-133.	1.9	51
104	Resting-state fMRI in sleeping infants more closely resembles adult sleep than adult wakefulness. PLoS ONE, 2017, 12, e0188122.	1.1	51
105	Impact of Demographic and Obstetric Factors on Infant Brain Volumes: A Population Neuroscience Study. Cerebral Cortex, 2017, 27, 5616-5625.	1.6	50
106	Asymmetrical lateral ventricular enlargement in Parkinsonâ€™s disease. European Journal of Neurology, 2009, 16, 475-481.	1.7	49
107	Multi-Object Analysis of Volume, Pose, and Shape Using Statistical Discrimination. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 652-661.	9.7	49
108	Shape alterations in the striatum in chorea-acanthocytosis. Psychiatry Research - Neuroimaging, 2011, 192, 29-36.	0.9	49

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109	Diffusion Tensor Imagingâ€“Based Characterization of Brain Neurodevelopment in Primates. Cerebral Cortex, 2013, 23, 36-48.	1.6	49
110	Early adverse experience increases emotional reactivity in juvenile rhesus macaques: Relation to amygdala volume. Developmental Psychobiology, 2014, 56, 1735-1746.	0.9	48
111	Role of deep learning in infant brain MRI analysis. Magnetic Resonance Imaging, 2019, 64, 171-189.	1.0	48
112	Accuracy and Landmark Error Calculation Using Cone-Beam Computed Tomographyâ€“Generated Cephalograms. Angle Orthodontist, 2010, 80, 286-294.	1.1	47
113	Asymmetric bias in user guided segmentations of brain structures. NeuroImage, 2012, 59, 1315-1323.	2.1	47
114	Common and heritable components of white matter microstructure predict cognitive function at 1 and 2 y. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 148-153.	3.3	47
115	White matter connectomes at birth accurately predict cognitive abilities at age 2. NeuroImage, 2019, 192, 145-155.	2.1	47
116	Characteristics of magnetic resonance imaging biomarkers in a natural history study of golden retriever muscular dystrophy. Neuromuscular Disorders, 2014, 24, 178-191.	0.3	46
117	Accurate and Robust Reconstruction of a Surface Model of the Proximal Femur From Sparse-Point Data and a Dense-Point Distribution Model for Surgical Navigation. IEEE Transactions on Biomedical Engineering, 2007, 54, 2109-2122.	2.5	45
118	Magnetic resonance microscopy-based analyses of the neuroanatomical effects of gestational day 9 ethanol exposure in mice. Neurotoxicology and Teratology, 2013, 39, 77-83.	1.2	45
119	The UNC-Wisconsin Rhesus Macaque Neurodevelopment Database: A Structural MRI and DTI Database of Early Postnatal Development. Frontiers in Neuroscience, 2017, 11, 29.	1.4	45
120	Minimally Invasive Approach for Diagnosing TMJ Osteoarthritis. Journal of Dental Research, 2019, 98, 1103-1111.	2.5	45
121	White Matter Heritability Using Diffusion Tensor Imaging in Neonatal Brains. Twin Research and Human Genetics, 2012, 15, 336-350.	0.3	44
122	White matter microstructural development and cognitive ability in the first 2 years of life. Human Brain Mapping, 2019, 40, 1195-1210.	1.9	44
123	Reconstruction of Patient-Specific 3D Bone Surface from 2D Calibrated Fluoroscopic Images and Point Distribution Model. Lecture Notes in Computer Science, 2006, 9, 25-32.	1.0	43
124	Quantitative tract-based white matter heritability in twin neonates. NeuroImage, 2015, 111, 123-135.	2.1	43
125	A web-based system for neural network based classification in temporomandibular joint osteoarthritis. Computerized Medical Imaging and Graphics, 2018, 67, 45-54.	3.5	43
126	Genetic influences on neonatal cortical thickness and surface area. Human Brain Mapping, 2018, 39, 4998-5013.	1.9	43

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127	Hippocampal Shape and Volume Changes with Antipsychotics in Early Stage Psychotic Illness. Frontiers in Psychiatry, 2012, 3, 96.	1.3	42
128	A Critical Proton MR Spectroscopy Marker of Alzheimerâ€™s Disease Early Neurodegenerative Change: Low Hippocampal NAA/Cr Ratio Impacts APOE É›4 Mexico City Children and Their Parents. Journal of Alzheimer's Disease, 2015, 48, 1065-1075.	1.2	40
129	Newborn amygdala connectivity and early emerging fear. Developmental Cognitive Neuroscience, 2019, 37, 100604.	1.9	39
130	Steady and Oscillatory Fluid Flows Produce a Similar Osteogenic Phenotype. Calcified Tissue International, 2011, 88, 189-197.	1.5	38
131	Outcome quantification using SPHARM-PDM toolbox in orthognathic surgery. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 617-626.	1.7	38
132	Prenatal isolated mild ventriculomegaly is associated with persistent ventricle enlargement at ages 1 and 2. Early Human Development, 2012, 88, 691-698.	0.8	38
133	Dysmorphogenic Effects of First Trimester-Equivalent Ethanol Exposure in Mice: A Magnetic Resonance Microscopy-Based Study. Alcoholism: Clinical and Experimental Research, 2014, 38, 2008-2014.	1.4	38
134	Long-term alterations in brain and behavior after postnatal Zika virus infection in infant macaques. Nature Communications, 2020, 11, 2534.	5.8	38
135	A-Mode Ultrasoundâ€“Based Registration in Computer-Aided Surgery of the Skull. JAMA Otolaryngology, 2003, 129, 1310.	1.5	37
136	Morphometric analysis of subcortical structures in progressive supranuclear palsy: In vivo evidence of neostriatal and mesencephalic atrophy. Psychiatry Research - Neuroimaging, 2011, 194, 163-175.	0.9	37
137	Size and shape of the caudate nucleus in individuals with bipolar affective disorder. Australian and New Zealand Journal of Psychiatry, 2012, 46, 340-351.	1.3	37
138	Subcortical structure segmentation using probabilistic atlas priors. , 2007, , .		36
139	Investigating the tradeoffs between spatial resolution and diffusion sampling for brain mapping with diffusion tractography: Time well spent?. Human Brain Mapping, 2014, 35, 5667-5685.	1.9	36
140	Stage-dependent loss of cortical gyrification as Parkinson disease â€œunfoldsâ€• Neurology, 2016, 86, 1143-1151.	1.5	36
141	Splenium development and early spoken language in human infants. Developmental Science, 2017, 20, e12360.	1.3	36
142	Infant gut microbiome composition is associated with non-social fear behavior in a pilot study. Nature Communications, 2021, 12, 3294.	5.8	36
143	Maternal buffering beyond glucocorticoids: impact of early life stress on corticolimbic circuits that control infant responses to novelty. Social Neuroscience, 2017, 12, 50-64.	0.7	35
144	Development of White Matter Circuitry in Infants With Fragile X Syndrome. JAMA Psychiatry, 2018, 75, 505.	6.0	35

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145	Correlation of Automated Volumetric Analysis of Brain MR Imaging with Cognitive Impairment in a Natural History Study of Mucopolysaccharidosis II. American Journal of Neuroradiology, 2010, 31, 1319-1323.	1.2	34
146	Incorporating 3-dimensional models in online articles. American Journal of Orthodontics and Dentofacial Orthopedics, 2015, 147, S195-S204.	0.8	34
147	Multisite validation of image analysis methods: assessing intra- and intersite variability. , 2002, 4684, 278.		33
148	FRATS: Functional Regression Analysis of DTI Tract Statistics. IEEE Transactions on Medical Imaging, 2010, 29, 1039-1049.	5.4	33
149	Development of cortical shape in the human brain from 6 to 24months of age via a novel measure of shape complexity. NeuroImage, 2016, 135, 163-176.	2.1	33
150	Particle-Based Shape Analysis of Multi-object Complexes. Lecture Notes in Computer Science, 2008, 11, 477-485.	1.0	33
151	Shape abnormalities of caudate nucleus in schizotypal personality disorder. Schizophrenia Research, 2009, 110, 127-139.	1.1	32
152	Multiscale adaptive generalized estimating equations for longitudinal neuroimaging data. NeuroImage, 2013, 72, 91-105.	2.1	32
153	A computerized MRI biomarker quantification scheme for a canine model of Duchenne muscular dystrophy. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 763-774.	1.7	31
154	NBD delivery improves the disease phenotype of the golden retriever model of Duchenne muscular dystrophy. Skeletal Muscle, 2014, 4, 18.	1.9	30
155	Decreased Axon Caliber Underlies Loss of Fiber Tract Integrity, Disproportional Reductions in White Matter Volume, and Microcephaly in Angelman Syndrome Model Mice. Journal of Neuroscience, 2017, 37, 7347-7361.	1.7	30
156	Adaptive prior probability and spatial temporal intensity change estimation for segmentation of the one-year-old human brain. Journal of Neuroscience Methods, 2013, 212, 43-55.	1.3	29
157	Maternal Immune Activation during Pregnancy Alters Postnatal Brain Growth and Cognitive Development in Nonhuman Primate Offspring. Journal of Neuroscience, 2021, 41, 9971-9987.	1.7	29
158	A linear exponent AR(1) family of correlation structures. Statistics in Medicine, 2010, 29, 1825-1838.	0.8	28
159	Skeletal Shape Correspondence Through Entropy. IEEE Transactions on Medical Imaging, 2018, 37, 1-11.	5.4	28
160	A cortical shape-adaptive approach to local gyrification index. Medical Image Analysis, 2018, 48, 244-258.	7.0	28
161	Assessment of Reliability of Multi-site Neuroimaging Via Traveling Phantom Study. Lecture Notes in Computer Science, 2008, 11, 263-270.	1.0	28
162	Subcortical Brain Development in Autism and Fragile X Syndrome: Evidence for Dynamic, Age- and Disorder-Specific Trajectories in Infancy. American Journal of Psychiatry, 2022, 179, 562-572.	4.0	28

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163	Genome-wide association analysis identifies common variants influencing infant brain volumes. Translational Psychiatry, 2017, 7, e1188-e1188.	2.4	27
164	UNC-Emory Infant Atlases for Macaque Brain Image Analysis: Postnatal Brain Development through 12 Months. Frontiers in Neuroscience, 2016, 10, 617.	1.4	27
165	Hierarchical spherical deformation for cortical surface registration. Medical Image Analysis, 2019, 57, 72-88.	7.0	27
166	Intrinsic Regression Models for Manifold-Valued Data. Lecture Notes in Computer Science, 2009, 5762, 192-199.	1.0	27
167	Regional differences in fiber tractography predict neurodevelopmental outcomes in neonates with infantile Krabbe disease. NeuroImage: Clinical, 2015, 7, 792-798.	1.4	25
168	STGP: Spatio-temporal Gaussian process models for longitudinal neuroimaging data. NeuroImage, 2016, 134, 550-562.	2.1	25
169	Cortical Structure and Cognition in Infants and Toddlers. Cerebral Cortex, 2020, 30, 786-800.	1.6	25
170	Placental genomic risk scores and early neurodevelopmental outcomes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	25
171	Shape analysis of the neostriatum in frontotemporal lobar degeneration, Alzheimer's disease, and controls. NeuroImage, 2010, 51, 970-986.	2.1	24
172	Cortical correspondence using entropy-based particle systems and local features. , 2008, , .		23
173	Localized differences in caudate and hippocampal shape are associated with schizophrenia but not antipsychotic type. Psychiatry Research - Neuroimaging, 2013, 211, 1-10.	0.9	23
174	FMEM: Functional mixed effects modeling for the analysis of longitudinal white matter Tract data. NeuroImage, 2014, 84, 753-764.	2.1	23
175	Exercise Degrades Bone in Caloric Restriction, Despite Suppression of Marrow Adipose Tissue (MAT). Journal of Bone and Mineral Research, 2020, 35, 106-115.	3.1	23
176	Reduced Relationship to Cortical White Matter Volume Revealed by Tractography-Based Segmentation of the Corpus Callosum in Young Children With Developmental Delay. American Journal of Psychiatry, 2006, 163, 2157-2163.	4.0	22
177	Dystrophin-deficient dogs with reduced myostatin have unequal muscle growth and greater joint contractures. Skeletal Muscle, 2016, 6, 14.	1.9	22
178	Prospective association of maternal psychosocial stress in pregnancy with newborn hippocampal volume and implications for infant social-emotional development. Neurobiology of Stress, 2021, 15, 100368.	1.9	22
179	Evaluation of atlas based mouse brain segmentation. , 2009, 7259, 725943-725949.		21
180	Shape analysis of the neostriatum in subtypes of frontotemporal lobar degeneration: Neuroanatomically significant regional morphologic change. Psychiatry Research - Neuroimaging, 2011, 191, 98-111.	0.9	21

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