

Martin A Styner

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.

395
papers

15,201
citations

67
h-index

112
g-index

451
ext. papers

18,184
ext. citations

4.3
avg, IF

6.34
L-index

#	Paper	IF	Citations
395	Comparison and evaluation of methods for liver segmentation from CT datasets. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 1251-65	11.7	650
394	Early brain development in infants at high risk for autism spectrum disorder. <i>Nature</i> , 2017 , 542, 348-351	50.4	552
393	Differences in white matter fiber tract development present from 6 to 24 months in infants with autism. <i>American Journal of Psychiatry</i> , 2012 , 169, 589-600	11.9	466
392	A comparison of automated segmentation and manual tracing for quantifying hippocampal and amygdala volumes. <i>NeuroImage</i> , 2009 , 45, 855-66	7.9	418
391	Imaging patients with psychosis and a mouse model establishes a spreading pattern of hippocampal dysfunction and implicates glutamate as a driver. <i>Neuron</i> , 2013 , 78, 81-93	13.9	344
390	Longitudinal development of cortical and subcortical gray matter from birth to 2 years. <i>Cerebral Cortex</i> , 2012 , 22, 2478-85	5.1	311
389	Early brain overgrowth in autism associated with an increase in cortical surface area before age 2 years. <i>Archives of General Psychiatry</i> , 2011 , 68, 467-76		298
388	Quicksilver: Fast predictive image registration - A deep learning approach. <i>NeuroImage</i> , 2017 , 158, 378-396		283
387	Superimposition of 3D cone-beam CT models of orthognathic surgery patients. <i>Dentomaxillofacial Radiology</i> , 2005 , 34, 369-75	3.9	246
386	Standardized evaluation methodology and reference database for evaluating coronary artery centerline extraction algorithms. <i>Medical Image Analysis</i> , 2009 , 13, 701-14	15.4	232
385	Image analysis and superimposition of 3-dimensional cone-beam computed tomography models. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2006 , 129, 611-8	2.1	226
384	Infant Gut Microbiome Associated With Cognitive Development. <i>Biological Psychiatry</i> , 2018 , 83, 148-159	7.9	207
383	White matter microstructure and atypical visual orienting in 7-month-olds at risk for autism. <i>American Journal of Psychiatry</i> , 2013 , 170, 899-908	11.9	196
382	Exposure to severe urban air pollution influences cognitive outcomes, brain volume and systemic inflammation in clinically healthy children. <i>Brain and Cognition</i> , 2011 , 77, 345-55	2.7	188
381	Boundary and medial shape analysis of the hippocampus in schizophrenia. <i>Medical Image Analysis</i> , 2004 , 8, 197-203	15.4	181
380	Functional neuroimaging of high-risk 6-month-old infants predicts a diagnosis of autism at 24 months of age. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	175
379	DTIPrep: quality control of diffusion-weighted images. <i>Frontiers in Neuroinformatics</i> , 2014 , 8, 4	3.9	172

378	Pharyngeal airway volume and shape from cone-beam computed tomography: relationship to facial morphology. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2009 , 136, 805-14	2.1	167
377	Functional connectivity MR imaging reveals cortical functional connectivity in the developing brain. <i>American Journal of Neuroradiology</i> , 2008 , 29, 1883-9	4.4	165
376	Three-dimensional cone-beam computed tomography for assessment of mandibular changes after orthognathic surgery. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2007 , 131, 44-50	2.1	153
375	Quantitative tract-based white matter development from birth to age 2years. <i>NeuroImage</i> , 2012 , 61, 542-57	7.9	149
374	Evaluation of 3D correspondence methods for model building. <i>Lecture Notes in Computer Science</i> , 2003 , 18, 63-75	0.9	149
373	Framework for the Statistical Shape Analysis of Brain Structures using SPHARM-PDM. <i>The Insight Journal</i> , 2006 , 242-250		140
372	The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. <i>NeuroImage</i> , 2019 , 185, 891-905	7.9	140
371	Maternal Systemic Interleukin-6 During Pregnancy Is Associated With Newborn Amygdala Phenotypes and Subsequent Behavior at 2 Years of Age. <i>Biological Psychiatry</i> , 2018 , 83, 109-119	7.9	133
370	Combined R2* and diffusion tensor imaging changes in the substantia nigra in Parkinson's disease. <i>Movement Disorders</i> , 2011 , 26, 1627-32	7	129
369	Maternal influenza infection during pregnancy impacts postnatal brain development in the rhesus monkey. <i>Biological Psychiatry</i> , 2010 , 67, 965-73	7.9	128
368	Increased Extra-axial Cerebrospinal Fluid in High-Risk Infants Who Later Develop Autism. <i>Biological Psychiatry</i> , 2017 , 82, 186-193	7.9	127
367	Adolescent binge drinking alters adult brain neurotransmitter gene expression, behavior, brain regional volumes, and neurochemistry in mice. <i>Alcoholism: Clinical and Experimental Research</i> , 2011 , 35, 671-88	3.7	127
366	Morphometric analysis of lateral ventricles in schizophrenia and healthy controls regarding genetic and disease-specific factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 4872-7	11.5	127
365	A diffusion tensor MRI atlas of the postmortem rhesus macaque brain. <i>NeuroImage</i> , 2015 , 117, 408-16	7.9	119
364	Comparison of actual surgical outcomes and 3-dimensional surgical simulations. <i>Journal of Oral and Maxillofacial Surgery</i> , 2010 , 68, 2412-21	1.8	119
363	Canine models of Duchenne muscular dystrophy and their use in therapeutic strategies. <i>Mammalian Genome</i> , 2012 , 23, 85-108	3.2	117
362	Altered corpus callosum morphology associated with autism over the first 2 years of life. <i>Brain</i> , 2015 , 138, 2046-58	11.2	116
361	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. <i>Journal of Neuroimaging</i> , 2015 , 25, 875-82	2.8	113

360	Magnetic resonance microscopy defines ethanol-induced brain abnormalities in prenatal mice: effects of acute insult on gestational day 8. <i>Alcoholism: Clinical and Experimental Research</i> , 2009 , 33, 1001-11	3.7	112
359	Bone marrow fat accumulation accelerated by high fat diet is suppressed by exercise. <i>Bone</i> , 2014 , 64, 39-46	4.7	109
358	Adolescent binge ethanol treatment alters adult brain regional volumes, cortical extracellular matrix protein and behavioral flexibility. <i>Pharmacology Biochemistry and Behavior</i> , 2014 , 116, 142-51	3.9	108
357	Common variants in psychiatric risk genes predict brain structure at birth. <i>Cerebral Cortex</i> , 2014 , 24, 1230-46	5.46	100
356	Three-dimensional surgical simulation. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2010 , 138, 361-71	2.1	100
355	Ethanol-induced face-brain dysmorphology patterns are correlative and exposure-stage dependent. <i>PLoS ONE</i> , 2012 , 7, e43067	3.7	100
354	DTI registration in atlas based fiber analysis of infantile Krabbe disease. <i>NeuroImage</i> , 2011 , 55, 1577-86	7.9	97
353	Genetic and environmental contributions to neonatal brain structure: A twin study. <i>Human Brain Mapping</i> , 2010 , 31, 1174-82	5.9	97
352	Evaluation of machine learning algorithms for treatment outcome prediction in patients with epilepsy based on structural connectome data. <i>NeuroImage</i> , 2015 , 118, 219-30	7.9	95
351	Magnetic resonance microscopy defines ethanol-induced brain abnormalities in prenatal mice: effects of acute insult on gestational day 7. <i>Alcoholism: Clinical and Experimental Research</i> , 2010 , 34, 98-111	3.7	93
350	Maternal Cortisol Concentrations During Pregnancy and Sex-Specific Associations With Neonatal Amygdala Connectivity and Emerging Internalizing Behaviors. <i>Biological Psychiatry</i> , 2019 , 85, 172-181	7.9	92
349	Quality Control of Diffusion Weighted Images. <i>Proceedings of SPIE</i> , 2010 , 7628,	1.7	91
348	Statistical deformable bone models for robust 3D surface extrapolation from sparse data. <i>Medical Image Analysis</i> , 2007 , 11, 99-109	15.4	90
347	Maternal Interleukin-6 concentration during pregnancy is associated with variation in frontolimbic white matter and cognitive development in early life. <i>NeuroImage</i> , 2019 , 185, 825-835	7.9	87
346	Objective Evaluation of Multiple Sclerosis Lesion Segmentation using a Data Management and Processing Infrastructure. <i>Scientific Reports</i> , 2018 , 8, 13650	4.9	87
345	Shape modeling and analysis with entropy-based particle systems. <i>Information Processing in Medical Imaging</i> , 2007 , 20, 333-45		86
344	Intergenerational Effect of Maternal Exposure to Childhood Maltreatment on Newborn Brain Anatomy. <i>Biological Psychiatry</i> , 2018 , 83, 120-127	7.9	85
343	Imaging nigral pathology and clinical progression in Parkinson's disease. <i>Movement Disorders</i> , 2012 , 27, 1636-43	7	84

342	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
341	O2.6. A TWO-YEAR LONGITUDINAL EVALUATION OF DIFFUSION MEASURES OF EXTRACELLULAR FREE WATER IN A NON-HUMAN PRIMATE MODEL OF MATERNAL IMMUNE ACTIVATION □ EXPLORING NEUROIMMUNE MECHANISMS OF PSYCHIATRIC DISORDERS. <i>Schizophrenia Bulletin</i> , 2019 , 45, S164-S165	1.3	78
340	Trajectories of early brain volume development in fragile X syndrome and autism. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2012 , 51, 921-33	7.2	78
339	M179. ALTERNATED BRAIN AND BEHAVIORAL DEVELOPMENT IN A NONHUMAN PRIMATE MODEL OF MATERNAL IMMUNE ACTIVATION. <i>Schizophrenia Bulletin</i> , 2020 , 46, S204-S204	1.3	78
338	Maturation trajectories of cortical brain development through the pubertal transition: unique species and sex differences in the monkey revealed through structural magnetic resonance imaging. <i>Cerebral Cortex</i> , 2010 , 20, 1053-63	5.1	77
337	Associations between white matter microstructure and infants' working memory. <i>NeuroImage</i> , 2013 , 64, 156-66	7.9	76
336	White matter hyperintensities, systemic inflammation, brain growth, and cognitive functions in children exposed to air pollution. <i>Journal of Alzheimer's Disease</i> , 2012 , 31, 183-91	4.3	75
335	Cranial base superimposition for 3-dimensional evaluation of soft-tissue changes. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2010 , 137, S120-9	2.1	75
334	Hippocampal shape analysis in Alzheimer's disease and frontotemporal lobar degeneration subtypes. <i>Journal of Alzheimer's Disease</i> , 2012 , 30, 355-65	4.3	74
333	Prenatal and neonatal brain structure and white matter maturation in children at high risk for schizophrenia. <i>American Journal of Psychiatry</i> , 2010 , 167, 1083-91	11.9	74
332	Multi-atlas segmentation of subcortical brain structures via the AutoSeg software pipeline. <i>Frontiers in Neuroinformatics</i> , 2014 , 8, 7	3.9	72
331	Implications of newborn amygdala connectivity for fear and cognitive development at 6-months-of-age. <i>Developmental Cognitive Neuroscience</i> , 2016 , 18, 12-25	5.5	70
330	Brain enlargement and increased behavioral and cytokine reactivity in infant monkeys following acute prenatal endotoxemia. <i>Behavioural Brain Research</i> , 2011 , 219, 108-15	3.4	69
329	Brain volume findings in 6-month-old infants at high familial risk for autism. <i>American Journal of Psychiatry</i> , 2012 , 169, 601-8	11.9	68
328	Effects of Antenatal Maternal Depressive Symptoms and Socio-Economic Status on Neonatal Brain Development are Modulated by Genetic Risk. <i>Cerebral Cortex</i> , 2017 , 27, 3080-3092	5.1	67
327	Impact of sex and gonadal steroids on neonatal brain structure. <i>Cerebral Cortex</i> , 2014 , 24, 2721-31	5.1	67
326	The paradox of muscle hypertrophy in muscular dystrophy. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2012 , 23, 149-72, xii	2.3	67
325	The Emergence of Network Inefficiencies in Infants With Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2017 , 82, 176-185	7.9	65

324	Joint Attention and Brain Functional Connectivity in Infants and Toddlers. <i>Cerebral Cortex</i> , 2017 , 27, 1709-1720	6.3	63
323	Hippocampus shape analysis and late-life depression. <i>PLoS ONE</i> , 2008 , 3, e1837	3.7	63
322	Framework for the Statistical Shape Analysis of Brain Structures using SPHARM-PDM. <i>The Insight Journal</i> , 2006 ,		62
321	Frontolimbic neural circuitry at 6 months predicts individual differences in joint attention at 9 months. <i>Developmental Science</i> , 2013 , 16, 186-197	4.5	61
320	A deep neural network to assess spontaneous pain from mouse facial expressions. <i>Molecular Pain</i> , 2018 , 14, 1744806918763658	3.4	59
319	FADTTS: functional analysis of diffusion tensor tract statistics. <i>NeuroImage</i> , 2011 , 56, 1412-25	7.9	59
318	3D osteoarthritic changes in TMJ condylar morphology correlates with specific systemic and local biomarkers of disease. <i>Osteoarthritis and Cartilage</i> , 2014 , 22, 1657-67	6.2	58
317	Shape versus Size: Improved Understanding of the Morphology of Brain Structures. <i>Lecture Notes in Computer Science</i> , 2001 , 24-32	0.9	58
316	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
315	Diffusion tensor imaging detects abnormalities in the corticospinal tracts of neonates with infantile Krabbe disease. <i>American Journal of Neuroradiology</i> , 2009 , 30, 1017-21	4.4	55
314	Three-dimensional quantification of mandibular asymmetry through cone-beam computerized tomography. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2011 , 111, 757-70		52
313	Postnatal Zika virus infection is associated with persistent abnormalities in brain structure, function, and behavior in infant macaques. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	50
312	Magnetic resonance microscopy-based analyses of the brains of normal and ethanol-exposed fetal mice. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2010 , 88, 953-64		50
311	Association of Prenatal Maternal Depression and Anxiety Symptoms With Infant White Matter Microstructure. <i>JAMA Pediatrics</i> , 2018 , 172, 973-981	8.3	49
310	Striatal shape in Parkinson's disease. <i>Neurobiology of Aging</i> , 2013 , 34, 2510-6	5.6	49
309	Gut microbiome and brain functional connectivity in infants-a preliminary study focusing on the amygdala. <i>Psychopharmacology</i> , 2019 , 236, 1641-1651	4.7	49
308	Walking, Gross Motor Development, and Brain Functional Connectivity in Infants and Toddlers. <i>Cerebral Cortex</i> , 2018 , 28, 750-763	5.1	47
307	Exercise Decreases Marrow Adipose Tissue Through β Oxidation in Obese Running Mice. <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 1692-1702	6.3	46

306	Clinical application of 3D imaging for assessment of treatment outcomes. <i>Seminars in Orthodontics</i> , 2011 , 17, 72-80	1.2	46
305	Automatic and Robust Computation of 3D Medial Models Incorporating Object Variability. <i>International Journal of Computer Vision</i> , 2003 , 55, 107-122	10.6	46
304	Alteration to hippocampal shape in cannabis users with and without schizophrenia. <i>Schizophrenia Research</i> , 2013 , 143, 179-84	3.6	45
303	UNC-Utah NA-MIC framework for DTI fiber tract analysis. <i>Frontiers in Neuroinformatics</i> , 2014 , 7, 51	3.9	45
302	Postnatal day 7 ethanol treatment causes persistent reductions in adult mouse brain volume and cortical neurons with sex specific effects on neurogenesis. <i>Alcohol</i> , 2012 , 46, 603-12	2.7	44
301	Soft tissue response to mandibular advancement using 3D CBCT scanning. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2011 , 40, 353-9	2.9	44
300	Clinical application of SPHARM-PDM to quantify temporomandibular joint osteoarthritis. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 345-52	7.6	44
299	Multi-object analysis of volume, pose, and shape using statistical discrimination. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 652-61	13.3	43
298	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. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 2109-22	5	43
297	Exercise Regulation of Marrow Fat in the Setting of PPAR α Agonist Treatment in Female C57BL/6 Mice. <i>Endocrinology</i> , 2015 , 156, 2753-61	4.8	42
296	Characteristics of magnetic resonance imaging biomarkers in a natural history study of golden retriever muscular dystrophy. <i>Neuromuscular Disorders</i> , 2014 , 24, 178-91	2.9	41
295	Asymmetric bias in user guided segmentations of brain structures. <i>NeuroImage</i> , 2012 , 59, 1315-23	7.9	41
294	Asymmetrical lateral ventricular enlargement in Parkinson's disease. <i>European Journal of Neurology</i> , 2009 , 16, 475-81	6	41
293	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
292	Accuracy and landmark error calculation using cone-beam computed tomography-generated cephalograms. <i>Angle Orthodontist</i> , 2010 , 80, 286-94	2.6	40
291	Common and heritable components of white matter microstructure predict cognitive function at 1 and 2 y. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 148-153	11.5	39
290	The pattern of gray matter atrophy in Parkinson's disease differs in cortical and subcortical regions. <i>Journal of Neurology</i> , 2016 , 263, 68-75	5.5	39
289	Early adverse experience increases emotional reactivity in juvenile rhesus macaques: relation to amygdala volume. <i>Developmental Psychobiology</i> , 2014 , 56, 1735-46	3	39

288	Diffusion tensor imaging-based characterization of brain neurodevelopment in primates. <i>Cerebral Cortex</i> , 2013 , 23, 36-48	5.1	39
287	White matter heritability using diffusion tensor imaging in neonatal brains. <i>Twin Research and Human Genetics</i> , 2012 , 15, 336-50	2.2	38
286	Antenatal depression, treatment with selective serotonin reuptake inhibitors, and neonatal brain structure: A propensity-matched cohort study. <i>Psychiatry Research - Neuroimaging</i> , 2016 , 253, 43-53	2.9	37
285	Hippocampal shape and volume changes with antipsychotics in early stage psychotic illness. <i>Frontiers in Psychiatry</i> , 2012 , 3, 96	5	37
284	Transgenic rhesus monkeys carrying the human gene copies show human-like neoteny of brain development. <i>National Science Review</i> , 2019 , 6, 480-493	10.8	35
283	Shape alterations in the striatum in chorea-acanthocytosis. <i>Psychiatry Research - Neuroimaging</i> , 2011 , 192, 29-36	2.9	35
282	Outcome quantification using SPHARM-PDM toolbox in orthognathic surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2011 , 6, 617-26	3.9	35
281	Reconstruction of patient-specific 3D bone surface from 2D calibrated fluoroscopic images and point distribution model. <i>Lecture Notes in Computer Science</i> , 2006 , 9, 25-32	0.9	35
280	Quantitative tract-based white matter heritability in twin neonates. <i>NeuroImage</i> , 2015 , 111, 123-35	7.9	34
279	Magnetic resonance microscopy-based analyses of the neuroanatomical effects of gestational day 9 ethanol exposure in mice. <i>Neurotoxicology and Teratology</i> , 2013 , 39, 77-83	3.9	34
278	The UNC-Wisconsin Rhesus Macaque Neurodevelopment Database: A Structural MRI and DTI Database of Early Postnatal Development. <i>Frontiers in Neuroscience</i> , 2017 , 11, 29	5.1	34
277	Steady and oscillatory fluid flows produce a similar osteogenic phenotype. <i>Calcified Tissue International</i> , 2011 , 88, 189-97	3.9	33
276	Restricted and Repetitive Behavior and Brain Functional Connectivity in Infants at Risk for Developing Autism Spectrum Disorder. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019 , 4, 50-61	3.4	33
275	Environmental Influences on Infant Cortical Thickness and Surface Area. <i>Cerebral Cortex</i> , 2019 , 29, 1139-1149	3.149	32
274	Osteoarthritis of the Temporomandibular Joint can be diagnosed earlier using biomarkers and machine learning. <i>Scientific Reports</i> , 2020 , 10, 8012	4.9	31
273	Impact of Demographic and Obstetric Factors on Infant Brain Volumes: A Population Neuroscience Study. <i>Cerebral Cortex</i> , 2017 , 27, 5616-5625	5.1	31
272	A Critical Proton MR Spectroscopy Marker of Alzheimer's Disease Early Neurodegenerative Change: Low Hippocampal NAA/Cr Ratio Impacts APOE e4 Mexico City Children and Their Parents. <i>Journal of Alzheimer's Disease</i> , 2015 , 48, 1065-75	4.3	31
271	Incorporating 3-dimensional models in online articles. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2015 , 147, S195-204	2.1	30

270	Prenatal isolated mild ventriculomegaly is associated with persistent ventricle enlargement at ages 1 and 2. <i>Early Human Development</i> , 2012 , 88, 691-8	2.2	30
269	Multiscale adaptive generalized estimating equations for longitudinal neuroimaging data. <i>NeuroImage</i> , 2013 , 72, 91-105	7.9	30
268	Size and shape of the caudate nucleus in individuals with bipolar affective disorder. <i>Australian and New Zealand Journal of Psychiatry</i> , 2012 , 46, 340-51	2.6	30
267	Shape abnormalities of caudate nucleus in schizotypal personality disorder. <i>Schizophrenia Research</i> , 2009 , 110, 127-39	3.6	30
266	A computerized MRI biomarker quantification scheme for a canine model of Duchenne muscular dystrophy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2013 , 8, 763-74	3.9	29
265	Morphometric analysis of subcortical structures in progressive supranuclear palsy: In vivo evidence of neostriatal and mesencephalic atrophy. <i>Psychiatry Research - Neuroimaging</i> , 2011 , 194, 163-75	2.9	29
264	Correlation of automated volumetric analysis of brain MR imaging with cognitive impairment in a natural history study of mucopolysaccharidosis II. <i>American Journal of Neuroradiology</i> , 2010 , 31, 1319-23 ^{4.4}		29
263	A-mode ultrasound-based registration in computer-aided surgery of the skull. <i>JAMA Otolaryngology</i> , 2003 , 129, 1310-6		29
262	Resting-state fMRI in sleeping infants more closely resembles adult sleep than adult wakefulness. <i>PLoS ONE</i> , 2017 , 12, e0188122	3.7	28
261	Splenium development and early spoken language in human infants. <i>Developmental Science</i> , 2017 , 20, e12360	4.5	27
260	Dysmorphogenic effects of first trimester-equivalent ethanol exposure in mice: a magnetic resonance microscopy-based study. <i>Alcoholism: Clinical and Experimental Research</i> , 2014 , 38, 2008-14	3.7	27
259	NBD delivery improves the disease phenotype of the golden retriever model of Duchenne muscular dystrophy. <i>Skeletal Muscle</i> , 2014 , 4, 18	5.1	27
258	FRATS: Functional Regression Analysis of DTI Tract Statistics. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 1039-49	11.7	27
257	Role of deep learning in infant brain MRI analysis. <i>Magnetic Resonance Imaging</i> , 2019 , 64, 171-189	3.3	26
256	Development of White Matter Circuitry in Infants With Fragile X Syndrome. <i>JAMA Psychiatry</i> , 2018 , 75, 505-513	14.5	26
255	Maternal buffering beyond glucocorticoids: impact of early life stress on corticolimbic circuits that control infant responses to novelty. <i>Social Neuroscience</i> , 2017 , 12, 50-64	2	25
254	Investigating the tradeoffs between spatial resolution and diffusion sampling for brain mapping with diffusion tractography: time well spent?. <i>Human Brain Mapping</i> , 2014 , 35, 5667-85	5.9	25
253	Particle-based shape analysis of multi-object complexes. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 477-85	0.9	25

252	Development of cortical shape in the human brain from 6 to 24 months of age via a novel measure of shape complexity. <i>NeuroImage</i> , 2016 , 135, 163-76	7.9	25
251	White matter microstructural development and cognitive ability in the first 2 years of life. <i>Human Brain Mapping</i> , 2019 , 40, 1195-1210	5.9	24
250	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
249	Dystrophin-deficient dogs with reduced myostatin have unequal muscle growth and greater joint contractures. <i>Skeletal Muscle</i> , 2016 , 6, 14	5.1	22
248	A linear exponent AR(1) family of correlation structures. <i>Statistics in Medicine</i> , 2010 , 29, 1825-38	2.3	22
247	Reduced relationship to cortical white matter volume revealed by tractography-based segmentation of the corpus callosum in young children with developmental delay. <i>American Journal of Psychiatry</i> , 2006 , 163, 2157-63	11.9	22
246	Newborn amygdala connectivity and early emerging fear. <i>Developmental Cognitive Neuroscience</i> , 2019 , 37, 100604	5.5	22
245	White matter connectomes at birth accurately predict cognitive abilities at age 2. <i>NeuroImage</i> , 2019 , 192, 145-155	7.9	21
244	Shape analysis of the neostriatum in frontotemporal lobar degeneration, Alzheimer's disease, and controls. <i>NeuroImage</i> , 2010 , 51, 970-86	7.9	21
243	A web-based system for neural network based classification in temporomandibular joint osteoarthritis. <i>Computerized Medical Imaging and Graphics</i> , 2018 , 67, 45-54	7.6	21
242	Minimally Invasive Approach for Diagnosing TMJ Osteoarthritis. <i>Journal of Dental Research</i> , 2019 , 98, 1103-1111	8.1	20
241	Localized differences in caudate and hippocampal shape are associated with schizophrenia but not antipsychotic type. <i>Psychiatry Research - Neuroimaging</i> , 2013 , 211, 1-10	2.9	20
240	Subcortical structure segmentation using probabilistic atlas priors 2007 ,		20
239	Intrinsic Regression Models for Manifold-Valued Data. <i>Lecture Notes in Computer Science</i> , 2009 , 5762, 192-199	0.9	20
238	Long-term alterations in brain and behavior after postnatal Zika virus infection in infant macaques. <i>Nature Communications</i> , 2020 , 11, 2534	17.4	20
237	STGP: Spatio-temporal Gaussian process models for longitudinal neuroimaging data. <i>NeuroImage</i> , 2016 , 134, 550-562	7.9	19
236	Stage-dependent loss of cortical gyrification as Parkinson disease "unfolds". <i>Neurology</i> , 2016 , 86, 1143-54.5		19
235	UNC-Emory Infant Atlases for Macaque Brain Image Analysis: Postnatal Brain Development through 12 Months. <i>Frontiers in Neuroscience</i> , 2016 , 10, 617	5.1	19

234	Evaluation of Atlas based Mouse Brain Segmentation. <i>Proceedings of SPIE</i> , 2009 , 7259, 725943-725949	1.7	19
233	Twin-singleton differences in neonatal brain structure. <i>Twin Research and Human Genetics</i> , 2011 , 14, 268-76	2.2	19
232	Assessment of reliability of multi-site neuroimaging via traveling phantom study. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 263-70	0.9	19
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