Katrin Amunts

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/396316/publications.pdf

Version: 2024-02-01

359 papers	37,688 citations	4388 86 h-index	3732 179 g-index
398 all docs	398 docs citations	398 times ranked	26612 citing authors

#	Article	IF	Citations
1	A new SPM toolbox for combining probabilistic cytoarchitectonic maps and functional imaging data. NeuroImage, 2005, 25, 1325-1335.	4.2	3,746
2	A probabilistic atlas and reference system for the human brain: International Consortium for Brain Mapping (ICBM). Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 1293-1322.	4.0	1,959
3	Broca's region revisited: Cytoarchitecture and intersubject variability. Journal of Comparative Neurology, 1999, 412, 319-341.	1.6	1,143
4	Cytoarchitectonic mapping of the human amygdala, hippocampal region and entorhinal cortex: intersubject variability and probability maps. Anatomy and Embryology, 2005, 210, 343-352.	1.5	1,041
5	Assignment of functional activations to probabilistic cytoarchitectonic areas revisited. NeuroImage, 2007, 36, 511-521.	4.2	881
6	Human Primary Auditory Cortex: Cytoarchitectonic Subdivisions and Mapping into a Spatial Reference System. NeuroImage, 2001, 13, 684-701.	4.2	708
7	Cortical Folding Patterns and Predicting Cytoarchitecture. Cerebral Cortex, 2008, 18, 1973-1980.	2.9	691
8	BigBrain: An Ultrahigh-Resolution 3D Human Brain Model. Science, 2013, 340, 1472-1475.	12.6	673
9	Brodmann's Areas 17 and 18 Brought into Stereotaxic Spaceâ€"Where and How Variable?. NeuroImage, 2000, 11, 66-84.	4.2	601
10	Testing anatomically specified hypotheses in functional imaging using cytoarchitectonic maps. NeuroImage, 2006, 32, 570-582.	4.2	582
11	The human inferior parietal cortex: Cytoarchitectonic parcellation and interindividual variability. NeuroImage, 2006, 33, 430-448.	4.2	570
12	Behavior, sensitivity, and power of activation likelihood estimation characterized by massive empirical simulation. NeuroImage, 2016, 137, 70-85.	4.2	547
13	Centenary of Brodmann's map â€" conception and fate. Nature Reviews Neuroscience, 2010, 11, 139-145.	10.2	512
14	Human brain white matter atlas: Identification and assignment of common anatomical structures in superficial white matter. NeuroImage, 2008, 43, 447-457.	4.2	486
15	Asymmetry in the Human Motor Cortex and Handedness. NeuroImage, 1996, 4, 216-222.	4.2	447
16	Development of cortical folding during evolution and ontogeny. Trends in Neurosciences, 2013, 36, 275-284.	8.6	437
17	The Human Parietal Operculum. I. Cytoarchitectonic Mapping of Subdivisions. Cerebral Cortex, 2006, 16, 254-267.	2.9	423
18	Analysis of neural mechanisms underlying verbal fluency in cytoarchitectonically defined stereotaxic spaceâ€"The roles of Brodmann areas 44 and 45. NeuroImage, 2004, 22, 42-56.	4.2	406

#	Article	IF	Citations
19	The Human Parietal Operculum. II. Stereotaxic Maps and Correlation with Functional Imaging Results. Cerebral Cortex, 2006, 16, 268-279.	2.9	402
20	White matter fiber tracts of the human brain: Three-dimensional mapping at microscopic resolution, topography and intersubject variability. NeuroImage, 2006, 29, 1092-1105.	4.2	398
21	Broca's region subserves imagery of motion: A combined cytoarchitectonic and fMRI study. Human Brain Mapping, 2000, 11, 273-285.	3.6	391
22	Architectonic Mapping of the Human Brain beyond Brodmann. Neuron, 2015, 88, 1086-1107.	8.1	360
23	The human inferior parietal lobule in stereotaxic space. Brain Structure and Function, 2008, 212, 481-495.	2.3	355
24	Motor cortex and hand motor skills: Structural compliance in the human brain. Human Brain Mapping, 1997, 5, 206-215.	3.6	342
25	Probabilistic Maps, Morphometry, and Variability of Cytoarchitectonic Areas in the Human Superior Parietal Cortex. Cerebral Cortex, 2008, 18, 2141-2157.	2.9	334
26	Observer-Independent Method for Microstructural Parcellation of Cerebral Cortex: A Quantitative Approach to Cytoarchitectonics. NeuroImage, 1999, 9, 165-177.	4.2	329
27	Stereotaxic probabilistic maps of the magnocellular cell groups in human basal forebrain. NeuroImage, 2008, 42, 1127-1141.	4.2	324
28	Interhemispheric asymmetry of the human motor cortex related to handedness and gender. Neuropsychologia, 2000, 38, 304-312.	1.6	318
29	A Four-Dimensional Probabilistic Atlas of the Human Brain. Journal of the American Medical Informatics Association: JAMIA, 2001, 8, 401-430.	4.4	313
30	Broca's Region: Novel Organizational Principles and Multiple Receptor Mapping. PLoS Biology, 2010, 8, e1000489.	5.6	304
31	Brocaâ€™s Region: From Action to Language. Physiology, 2005, 20, 60-69.	3.1	274
32	Genetic Contributions to Human Brain Morphology and Intelligence. Journal of Neuroscience, 2006, 26, 10235-10242.	3.6	271
33	Towards multimodal atlases of the human brain. Nature Reviews Neuroscience, 2006, 7, 952-966.	10.2	261
34	Gender differences in the cognitive control of emotion: An fMRI study. Neuropsychologia, 2007, 45, 2744-2754.	1.6	260
35	Observer-Independent Cytoarchitectonic Mapping of the Human Superior Parietal Cortex. Cerebral Cortex, 2008, 18, 846-867.	2.9	254
36	Cytoarchitectonic identification and probabilistic mapping of two distinct areas within the anterior ventral bank of the human intraparietal sulcus. Journal of Comparative Neurology, 2006, 495, 53-69.	1.6	249

#	Article	IF	Citations
37	Julich-Brain: A 3D probabilistic atlas of the human brainâ€™s cytoarchitecture. Science, 2020, 369, 988-992.	12.6	246
38	Cytoarchitectonic Analysis of the Human Extrastriate Cortex in the Region of V5/MT+: A Probabilistic, Stereotaxic Map of Area hOc5. Cerebral Cortex, 2006, 17, 562-574.	2.9	243
39	A novel approach to the human connectome: Ultra-high resolution mapping of fiber tracts in the brain. NeuroImage, 2011, 54, 1091-1101.	4.2	236
40	The Human Brain Project: Creating a European Research Infrastructure to Decode the Human Brain. Neuron, 2016, 92, 574-581.	8.1	235
41	Architectonics of the human cerebral cortex and transmitter receptor fingerprints: reconciling functional neuroanatomy and neurochemistry. European Neuropsychopharmacology, 2002, 12, 587-599.	0.7	222
42	High-resolution MRI reflects myeloarchitecture and cytoarchitecture of human cerebral cortex. Human Brain Mapping, 2005, 24, 206-215.	3.6	217
43	Cytoarchitecture and Probabilistic Maps of the Human Posterior Insular Cortex. Cerebral Cortex, 2010, 20, 1448-1461.	2.9	214
44	The mid-fusiform sulcus: A landmark identifying both cytoarchitectonic and functional divisions of human ventral temporal cortex. NeuroImage, 2014, 84, 453-465.	4.2	212
45	Quantitative analysis of sulci in the human cerebral cortex: Development, regional heterogeneity, gender difference, asymmetry, intersubject variability and cortical architecture. Human Brain Mapping, 1997, 5, 218-221.	3.6	201
46	Activation of Brocaâ€™s area during the production of spoken and signed language: a combined cytoarchitectonic mapping and PET analysis. Neuropsychologia, 2003, 41, 1868-1876.	1.6	200
47	Cytoarchitecture of the cerebral cortexâ€”More than localization. NeuroImage, 2007, 37, 1061-1065.	4.2	200
48	Brocaâ€™s area: Nomenclature, anatomy, typology and asymmetry. Brain and Language, 2009, 109, 29-48.	1.6	196
49	Posterior parietal cortex is implicated in continuous switching between verbal fluency tasks: an fMRI study with clinical implications. Brain, 2002, 125, 1024-1038.	7.6	194
50	Cytoarchitecture, probability maps and functions of the human frontal pole. NeuroImage, 2014, 93, 260-275.	4.2	193
51	Organization of the Human Inferior Parietal Lobule Based on Receptor Architectonics. Cerebral Cortex, 2013, 23, 615-628.	2.9	192
52	Impairment in the Specificity of Emotion Processing in Schizophrenia. American Journal of Psychiatry, 2006, 163, 442-447.	7.2	190
53	Reduction of Basal Forebrain Cholinergic System Parallels Cognitive Impairment in Patients at High Risk of Developing Alzheimer's Disease. Cerebral Cortex, 2010, 20, 1685-1695.	2.9	183
54	A systems perspective on the effective connectivity of overt speech production. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 2399-2421.	3.4	182

#	Article	IF	Citations
55	Spatial Organization of Neurons in the Frontal Pole Sets Humans Apart from Great Apes. Cerebral Cortex, 2011, 21, 1485-1497.	2.9	180
56	Identifying human parieto-insular vestibular cortex using fMRI and cytoarchitectonic mapping. Human Brain Mapping, 2006, 27, 611-621.	3.6	173
57	Broca's region: Cytoarchitectonic asymmetry and developmental changes. Journal of Comparative Neurology, 2003, 465, 72-89.	1.6	167
58	Specialisation in Broca's region for semantic, phonological, and syntactic fluency?. NeuroImage, 2008, 40, 1362-1368.	4.2	163
59	Neural Correlates of Dual Task Interference Can be Dissociated from Those of Divided Attention: an fMRI Study. Cerebral Cortex, 2001, 11, 796-805.	2.9	161
60	Receptor mapping: architecture of the human cerebral cortex. Current Opinion in Neurology, 2009, 22, 331-339.	3.6	160
61	How to Characterize the Function of a Brain Region. Trends in Cognitive Sciences, 2018, 22, 350-364.	7.8	158
62	Structural Asymmetries in the Human Forebrain and the Forebrain of Non-human Primates and Rats. Neuroscience and Biobehavioral Reviews, 1996, 20, 593-605.	6.1	157
63	Ventral visual cortex in humans: Cytoarchitectonic mapping of two extrastriate areas. Human Brain Mapping, 2007, 28, 1045-1059.	3.6	157
64	A neural correlate of syntactic encoding during speech production. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5933-5936.	7.1	156
65	Architecture and organizational principles of Broca's region. Trends in Cognitive Sciences, 2012, 16, 418-426.	7.8	155
66	Tackling the multifunctional nature of Broca's region meta-analytically: Co-activation-based parcellation of area 44. NeuroImage, 2013, 83, 174-188.	4.2	154
67	Quantitative Analysis of Cyto- and Receptor Architecture of the Human Brain. , 2002, , 573-602.		152
68	Multimodal architectonic mapping of human superior temporal gyrus. Anatomy and Embryology, 2005, 210, 401-406.	1.5	152
69	Microstructural proliferation in human cortex is coupled with the development of face processing. Science, 2017, 355, 68-71.	12.6	150
70	High-Resolution Fiber Tract Reconstruction in the Human Brain by Means of Three-Dimensional Polarized Light Imaging. Frontiers in Neuroinformatics, 2011, 5, 34.	2.5	147
71	Quantitative architectural analysis: a new approach to cortical mapping. Anatomy and Embryology, 2005, 210, 373-386.	1.5	142
72	Whole-Body MR Imaging in the German National Cohort: Rationale, Design, and Technical Background. Radiology, 2015, 277, 206-220.	7.3	137

#	Article	IF	Citations
73	Cytoarchitectonical analysis and probabilistic mapping of two extrastriate areas of the human posterior fusiform gyrus. Brain Structure and Function, 2013, 218, 511-526.	2.3	136
74	A cortex-like canonical circuit in the avian forebrain. Science, 2020, 369, .	12.6	133
75	A harmonized segmentation protocol for hippocampal and parahippocampal subregions: Why do we need one and what are the key goals?. Hippocampus, 2017, 27, 3-11.	1.9	130
76	A stereological approach to human cortical architecture: identification and delineation of cortical areas. Journal of Chemical Neuroanatomy, 2000, 20, 31-47.	2.1	123
77	The role of the left Brodmann's areas 44 and 45 in reading words and pseudowords. Cognitive Brain Research, 2005, 25, 982-993.	3.0	123
78	BigBrain 3D atlas of cortical layers: Cortical and laminar thickness gradients diverge in sensory and motor cortices. PLoS Biology, 2020, 18, e3000678.	5.6	120
79	Neuronal correlates of real and illusory contour perception: functional anatomy with PET. European Journal of Neuroscience, 1999, 11, 4024-4036.	2.6	117
80	Consequences of large interindividual variability for human brain atlases: converging macroscopical imaging and microscopical neuroanatomy. Anatomy and Embryology, 2005, 210, 423-431.	1.5	115
81	Structural brain abnormalities in psychopathsâ€"a review. Behavioral Sciences and the Law, 2008, 26, 7-28.	0.8	115
82	Effective connectivity of the left BA 44, BA 45, and inferior temporal gyrus during lexical and phonological decisions identified with DCM. Human Brain Mapping, 2009, 30, 392-402.	3.6	113
83	Gender-Specific Leftâ€"Right Asymmetries in Human Visual Cortex. Journal of Neuroscience, 2007, 27, 1356-1364.	3.6	112
84	Primate Prefrontal Cortex Evolution: Human Brains Are the Extreme of a Lateralized Ape Trend. Brain, Behavior and Evolution, 2011, 77, 67-78.	1.7	110
85	A comparative quantitative analysis of cytoarchitecture and minicolumnar organization in Broca's area in humans and great apes. Journal of Comparative Neurology, 2008, 510, 117-128.	1.6	106
86	Evaluation of non-negative matrix factorization of grey matter in age prediction. NeuroImage, 2018, 173, 394-410.	4.2	99
87	Locating the functional and anatomical boundaries of human primary visual cortex. NeuroImage, 2009, 46, 915-922.	4.2	98
88	Functional organization of human subgenual cortical areas: Relationship between architectonical segregation and connectional heterogeneity. NeuroImage, 2015, 115, 177-190.	4.2	98
89	Studying variability in human brain aging in a population-based German cohortâ€"rationale and design of 1000BRAINS. Frontiers in Aging Neuroscience, 2014, 6, 149.	3.4	97
90	The Cytoarchitecture of Domain-specific Regions in Human High-level Visual Cortex. Cerebral Cortex, 2017, 27, 146-161.	2.9	94

#	Article	IF	Citations
91	Advances in cytoarchitectonic mapping of the human cerebral cortex. Neuroimaging Clinics of North America, 2001, 11, 151-69, vii.	1.0	92
92	Two New Cytoarchitectonic Areas on the Human Mid-Fusiform Gyrus. Cerebral Cortex, 2017, 27, bhv225.	2.9	91
93	Segregation of visceral and somatosensory afferents: An fMRI and cytoarchitectonic mapping study. NeuroImage, 2006, 31, 1004-1014.	4.2	90
94	Simultaneous movements of upper and lower limbs are coordinated by motor representations that are shared by both limbs: a PET study. European Journal of Neuroscience, 2000, 12, 3385-3398.	2.6	89
95	Cognitive subtypes of dyslexia. Acta Neurobiologiae Experimentalis, 2008, 68, 73-82.	0.7	85
96	Localized morphological brain differences between English-speaking Caucasians and Chinese-speaking Asians: new evidence of anatomical plasticity. NeuroReport, 2003, 14, 961-964.	1.2	84
97	Amygdala control of emotion-induced forgetting and remembering: Evidence from Urbach-Wiethe disease. Neuropsychologia, 2007, 45, 877-884.	1.6	83
98	Different roles of cytoarchitectonic BA 44 and BA 45 in phonological and semantic verbal fluency as revealed by dynamic causal modelling. NeuroImage, 2009, 48, 616-624.	4.2	83
99	Human V5/MT+: comparison of functional and cytoarchitectonic data. Anatomy and Embryology, 2005, 210, 485-495.	1.5	82
100	The Central Sulcus: an Observer-Independent Characterization of Sulcal Landmarks and Depth Asymmetry. Cerebral Cortex, 2008, 18, 1999-2009.	2.9	82
101	Multimodal Parcellations and Extensive Behavioral Profiling Tackling the Hippocampus Gradient. Cerebral Cortex, 2019, 29, 4595-4612.	2.9	82
102	Left and right superior parietal lobule in tactile object discrimination. European Journal of Neuroscience, 2004, 19, 1067-1072.	2.6	81
103	Direct Visualization and Mapping of the Spatial Course of Fiber Tracts at Microscopic Resolution in the Human Hippocampus. Cerebral Cortex, 2017, 27, bhw010.	2.9	80
104	Cytoarchitectural maps of the human brain in standard anatomical space. , 1997, 5, 222-227.		78
105	Interoperable atlases of the human brain. NeuroImage, 2014, 99, 525-532.	4.2	78
106	Cytoarchitectonic mapping of the human dorsal extrastriate cortex. Brain Structure and Function, 2013, 218, 157-172.	2.3	76
107	Individual variability is not noise. Trends in Cognitive Sciences, 2013, 17, 153-155.	7.8	76
108	Functional network reorganization in older adults: Graph-theoretical analyses of age, cognition and sex. NeuroImage, 2020, 214, 116756.	4.2	76

#	Article	IF	Citations
109	Genetic variants associated with longitudinal changes in brain structure across the lifespan. Nature Neuroscience, 2022, 25, 421-432.	14.8	75
110	Functional characterization and differential coactivation patterns of two cytoarchitectonic visual areas on the human posterior fusiform gyrus. Human Brain Mapping, 2014, 35, 2754-2767.	3.6	74
111	Cytoarchitecture, probability maps, and functions of the human supplementary and pre-supplementary motor areas. Brain Structure and Function, 2018, 223, 4169-4186.	2.3	74
112	Defining the most probable location of the parahippocampal place area using cortex-based alignment and cross-validation. NeuroImage, 2018, 170, 373-384.	4.2	71
113	Linking retinotopic fMRI mapping and anatomical probability maps of human occipital areas V1 and V2. NeuroImage, 2005, 26, 73-82.	4.2	69
114	Left-Right Asymmetry in Volume and Number of Neurons in Adult Broca's Area. Cortex, 2006, 42, 652-658.	2.4	69
115	Anatomical Global Spatial Normalization. Neuroinformatics, 2010, 8, 171-182.	2.8	69
116	Mapping Cortical Laminar Structure in the 3D BigBrain. Cerebral Cortex, 2018, 28, 2551-2562.	2.9	69
117	Quantitative T1 mapping of hepatic encephalopathy using magnetic resonance imaging. Hepatology, 2003, 38, 1219-1226.	7.3	67
118	Dependence of amygdala activation on echo time: Results from olfactory fMRI experiments. NeuroImage, 2006, 30, 151-159.	4.2	66
119	Neural activations at the junction of the inferior frontal sulcus and the inferior precentral sulcus: Interindividual variability, reliability, and association with sulcal morphology. Human Brain Mapping, 2009, 30, 299-311.	3.6	66
120	Hominoid visual brain structure volumes and the position of the lunate sulcus. Journal of Human Evolution, 2010, 58, 281-292.	2.6	66
121	Cytoarchitecture and probability maps of the human medial orbitofrontal cortex. Cortex, 2016, 75, 87-112.	2.4	66
122	The Right Dorsal Premotor Mosaic: Organization, Functions, and Connectivity. Cerebral Cortex, 2017, 27, bhw065.	2.9	66
123	The natural axis of transmitter receptor distribution in the human cerebral cortex. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	66
124	Common molecular basis of the sentence comprehension network revealed by neurotransmitter receptor fingerprints. Cortex, 2015, 63, 79-89.	2.4	64
125	Human Pregenual Anterior Cingulate Cortex: Structural, Functional, and Connectional Heterogeneity. Cerebral Cortex, 2019, 29, 2552-2574.	2.9	64
126	The Human Brain Projectâ€"Synergy between neuroscience, computing, informatics, and brain-inspired technologies. PLoS Biology, 2019, 17, e3000344.	5.6	64

#	Article	IF	Citations
127	Postnatal development of interhemispheric asymmetry in the cytoarchitecture of human area 4. Anatomy and Embryology, 1997, 196, 393-402.	1.5	63
128	Outstanding language competence and cytoarchitecture in Brocaâ€™s speech region. Brain and Language, 2004, 89, 346-353.	1.6	63
129	Estimating Fiber Orientation Distribution Functions in 3D-Polarized Light Imaging. Frontiers in Neuroanatomy, 2016, 10, 40.	1.7	63
130	The heterogeneity of the left dorsal premotor cortex evidenced by multimodal connectivity-based parcellation and functional characterization. NeuroImage, 2018, 170, 400-411.	4.2	63
131	A cross-validated cytoarchitectonic atlas of the human ventral visual stream. NeuroImage, 2018, 170, 257-270.	4.2	63
132	Deformation Field Morphometry Reveals Age-Related Structural Differences between the Brains of Adults up to 51 Years. Journal of Neuroscience, 2008, 28, 828-842.	3.6	61
133	Pattern reversal visual evoked responses of V1/V2 and V5/MT as revealed by MEG combined with probabilistic cytoarchitectonic maps. NeuroImage, 2006, 31, 86-108.	4.2	59
134	Comparative Cytoarchitectural Analyses of Striate and Extrastriate Areas in Hominoids. Cerebral Cortex, 2010, 20, 966-981.	2.9	59
135	Learning Task-Optimal Registration Cost Functions for Localizing Cytoarchitecture and Function in the Cerebral Cortex. IEEE Transactions on Medical Imaging, 2010, 29, 1424-1441.	8.9	57
136	The many dimensions of human hippocampal organization and (dys)function. Trends in Neurosciences, 2021, 44, 977-989.	8.6	57
137	Association of Copy Number Variation of the 15q11.2 BP1-BP2 Region With Cortical and Subcortical Morphology and Cognition. JAMA Psychiatry, 2020, 77, 420.	11.0	54
138	A short review on emotion processing: a lateralized network of neuronal networks. Brain Structure and Function, 2022, 227, 673-684.	2.3	54
139	Influence of age and cognitive performance on resting-state brain networks of older adults in a population-based cohort. Cortex, 2017, 89, 28-44.	2.4	53
140	Quantitative Architectural Analysis: A New Approach to Cortical Mapping. Journal of Autism and Developmental Disorders, 2009, 39, 1568-1581.	2.7	52
141	Interaction of phonological awareness and â€˜magnocellularâ€™ processing during normal and dyslexic reading: behavioural and fMRI investigations. Dyslexia, 2010, 16, 258-282.	1.5	52
142	Medial Prefrontal Aberrations in Major Depressive Disorder Revealed by Cytoarchitectonically Informed Voxel-Based Morphometry. American Journal of Psychiatry, 2016, 173, 291-298.	7.2	52
143	Cytoarchitecture of the human lateral occipital cortex: mapping of two extrastriate areas hOc4la and hOc4lp. Brain Structure and Function, 2016, 221, 1877-1897.	2.3	50
144	Age- and function-related regional changes in cortical folding of the default mode network in older adults. Brain Structure and Function, 2017, 222, 83-99.	2.3	50

#	Article	IF	Citations
145	The Human Brain Project: Responsible Brain Research for the Benefit of Society. Neuron, 2019, 101, 380-384.	8.1	50
146	Dose response of the 16p11.2 distal copy number variant on intracranial volume and basal ganglia. Molecular Psychiatry, 2020, 25, 584-602.	7.9	49
147	The influence of olfactory-induced negative emotion on verbal working memory: Individual differences in neurobehavioral findings. Brain Research, 2007, 1152, 158-170.	2.2	48
148	A Jones matrix formalism for simulating three-dimensional polarized light imaging of brain tissue. Journal of the Royal Society Interface, 2015, 12, 20150734.	3.4	47
149	Improving Cytoarchitectonic Segmentation of Human Brain Areas with Self-supervised Siamese Networks. Lecture Notes in Computer Science, 2018, , 663-671.	1.3	47
150	When your brain looks older than expected: combined lifestyle risk and BrainAGE. Brain Structure and Function, 2021, 226, 621-645.	2.3	47
151	To the Cloud! A Grassroots Proposal to Accelerate Brain Science Discovery. Neuron, 2016, 92, 622-627.	8.1	46
152	Understanding fiber mixture by simulation in 3D Polarized Light Imaging. NeuroImage, 2015, 111, 464-475.	4.2	45
153	Multimodal mapping and analysis of the cyto- and receptorarchitecture of the human hippocampus. Brain Structure and Function, 2020, 225, 881-907.	2.3	45
154	Human Superior Parietal Lobule Is Involved in Somatic Perception of Bimanual Interaction With an External Object. Journal of Neurophysiology, 2008, 99, 695-703.	1.8	44
155	Left cytoarchitectonic area 44 supports selection in the mental lexicon during language production. Brain Structure and Function, 2009, 213, 441-456.	2.3	44
156	Comparison of functional and cytoarchitectonic maps of human visual areas V1, V2, V3d, V3v, and V4(v). NeuroImage, 2010, 49, 1171-1179.	4.2	44
157	Brain morphometry shows effects of long-term musical practice in middle-aged keyboard players. Frontiers in Psychology, 2013, 4, 636.	2.1	43
158	Receptor architecture of visual areas in the face and word-form recognition region of the posterior fusiform gyrus. Brain Structure and Function, 2015, 220, 205-219.	2.3	43
159	Localized morphological brain differences between English-speaking Caucasians and Chinese-speaking Asians: new evidence of anatomical plasticity. NeuroReport, 2003, 14, 961-964.	1.2	42
160	Combining lifestyle risks to disentangle brain structure and functional connectivity differences in older adults. Nature Communications, 2019, 10, 621.	12.8	42
161	The hippocampus of birds in a view of evolutionary connectomics. Cortex, 2019, 118, 165-187.	2.4	42
162	The BigBrainWarp toolbox for integration of BigBrain 3D histology with multimodal neuroimaging. ELife, 2021, 10, .	6.0	42

#	Article	IF	Citations
163	Brain simulation as a cloud service: The Virtual Brain on EBRAINS. NeuroImage, 2022, 251, 118973.	4.2	42
164	Adult age-dependent differences in resting-state connectivity within and between visual-attention and sensorimotor networks. Frontiers in Aging Neuroscience, 2013, 5, 67.	3.4	41
165	Cytoarchitectonic and receptorarchitectonic organization in Broca's region and surrounding cortex. Current Opinion in Behavioral Sciences, 2018, 21, 93-105.	3.9	41
166	Observer-independent analysis of high-resolution MR images of the human cerebral cortex: In vivo delineation of cortical areas. Human Brain Mapping, 2007, 28, 1-8.	3.6	40
167	Microstructural grey matter parcellation and its relevance for connectome analyses. NeuroImage, 2013, 80, 18-26.	4.2	40
168	Processing Noncanonical Sentences in Broca's Region: Reflections of Movement Distance and Type. Cerebral Cortex, 2013, 23, 694-702.	2.9	39
169	Segregation and Wiring in the Brain. Science, 2012, 335, 1582-1584.	12.6	38
170	Head motion during overt language production in functional magnetic resonance imaging. NeuroReport, 2006, 17, 579-582.	1.2	37
171	Superficially Located White Matter Structures Commonly Seen in the Human and the Macaque Brain with Diffusion Tensor Imaging. Brain Connectivity, 2011, 1, 37-47.	1.7	37
172	Architecture of the Cerebral Cortex. , 2012, , 836-895.		37
173	Target sites for transcallosal fibers in human visual cortex â€“ A combined diffusion and polarized light imaging study. Cortex, 2015, 72, 40-53.	2.4	37
174	ANIMA: A data-sharing initiative for neuroimaging meta-analyses. NeuroImage, 2016, 124, 1245-1253.	4.2	37
175	Developmental Changes of Glutamate and GABA Receptor Densities in Wistar Rats. Frontiers in Neuroanatomy, 2019, 13, 100.	1.7	37
176	Towards ultra-high resolution fibre tract mapping of the human brain - registration of polarised light images and reorientation of fibre vectors. Frontiers in Human Neuroscience, 2010, 4, 9.	2.0	36
177	Progressive cognitive dysfunction in spinocerebellar ataxia type 3. Movement Disorders, 2013, 28, 1435-1438.	3.9	36
178	Analysis of lesions in patients with unilateral tactile agnosia using cytoarchitectonic probabilistic maps. Human Brain Mapping, 2009, 30, 1444-1456.	3.6	35
179	Cytoarchitectonic mapping of the human brain cerebellar nuclei in stereotaxic space and delineation of their co-activation patterns. Frontiers in Neuroanatomy, 2015, 09, 54.	1.7	35
180	Detection of structural changes of the human brain in longitudinally acquired MR images by deformation field morphometry: Methodological analysis, validation and application. NeuroImage, 2008, 43, 269-287.	4.2	34

#	Article	IF	Citations
181	Signal enhancement in polarized light imaging by means of independent component analysis. NeuroImage, 2010, 49, 1241-1248.	4.2	34
182	Effects of lexicality and word frequency on brain activation in dyslexic readers. Brain and Language, 2013, 125, 194-202.	1.6	34
183	A Complex Interplay of Vitamin B1 and B6 Metabolism with Cognition, Brain Structure, and Functional Connectivity in Older Adults. Frontiers in Neuroscience, 2017, 11, 596.	2.8	34
184	Progress update from the hippocampal subfields group. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 439-449.	2.4	34
185	The time course of neurolinguistic and neuropsychological symptoms in three cases of logopenic primary progressive aphasia. Neuropsychologia, 2012, 50, 1708-1718.	1.6	33
186	The importance of seeing it coming: a functional magnetic resonance imaging study of motion-in-depth towards the human observer. Neuroscience, 2002, 112, 535-540.	2.3	32
187	Cytoarchitectonic segregation of human posterior intraparietal and adjacent parieto-occipital sulcus and its relation to visuomotor and cognitive functions. Cerebral Cortex, 2019, 29, 1305-1327.	2.9	32
188	Four new cytoarchitectonic areas surrounding the primary and early auditory cortex in human brains. Cortex, 2020, 128, 1-21.	2.4	32
189	Postnatal development of the human primary motor cortex: a quantitative cytoarchitectonic analysis. Anatomy and Embryology, 1995, 192, 557-71.	1.5	31
190	Biotin-Responsive Basal Ganglia Disease: A Treatable Differential Diagnosis of Leigh Syndrome. JIMD Reports, 2013, 13, 53-57.	1.5	31
191	Generalizing age effects on brain structure and cognition: A twoâ€study comparison approach. Human Brain Mapping, 2019, 40, 2305-2319.	3.6	31
192	No postnatal doubling of number of neurons in human Brocaâ€™s areas (Brodmann areas 44 and 45)? A stereological study. Neuroscience, 2005, 136, 715-728.	2.3	30
193	A multiscale approach for the reconstruction of the fiber architecture of the human brain based on 3D-PLI. Frontiers in Neuroanatomy, 2015, 9, 118.	1.7	30
194	Co-activation based parcellation of the human frontal pole. NeuroImage, 2015, 123, 200-211.	4.2	30
195	Effects of copy number variations on brain structure and risk for psychiatric illness: Largeâ€scale studies from the<scp>ENIGMA</scp>working groups on<scp>CNVs</scp>. Human Brain Mapping, 2022, 43, 300-328.	3.6	30
196	The determiner congruency effect in language production investigated with functional MRI. Human Brain Mapping, 2009, 30, 928-940.	3.6	29
197	Regional cerebral blood flow correlations of somatosensory areas 3a, 3b, 1, and 2 in humans during rest: A PET and cytoarchitectural study. Human Brain Mapping, 2003, 19, 183-196.	3.6	28
198	Laterality and the evolution of the prefrontoâ€cerebellar system in anthropoids. Annals of the New York Academy of Sciences, 2013, 1288, 59-69.	3.8	28

#	Article	IF	Citations
199	Robust brain parcellation using sparse representation on resting-state fMRI. Brain Structure and Function, 2015, 220, 3565-3579.	2.3	27
200	Aging and response conflict solution: behavioural and functional connectivity changes. Brain Structure and Function, 2015, 220, 1739-1757.	2.3	27
201	Diattenuation Imaging reveals different brain tissue properties. Scientific Reports, 2019, 9, 1939.	3.3	26
202	Word frequency effects in the left IFG in dyslexic and normally reading children during picture naming and reading. NeuroImage, 2011, 57, 1212-1220.	4.2	25
203	Changes in the expression of neurotransmitter receptors in Parkin and DJ-1 knockout mice â€“ A quantitative multireceptor study. Neuroscience, 2015, 311, 539-551.	2.3	25
204	3D Reconstructed Cyto-, Muscarinic M2 Receptor, and Fiber Architecture of the Rat Brain Registered to the Waxholm Space Atlas. Frontiers in Neuroanatomy, 2016, 10, 51.	1.7	25
205	Multimodal connectivity mapping of the human left anterior and posterior lateral prefrontal cortex. Brain Structure and Function, 2016, 221, 2589-2605.	2.3	25
206	Modality-independent involvement of the left BA 44 during lexical decision making. Brain Structure and Function, 2007, 212, 95-106.	2.3	24
207	Cognitive levels of performance account for hemispheric lateralisation effects in dyslexic and normally reading children. NeuroImage, 2010, 53, 1346-1358.	4.2	24
208	Spatial normalization of brain images and beyond. Medical Image Analysis, 2016, 33, 127-133.	11.6	24
209	A seed-based cross-modal comparison of brain connectivity measures. Brain Structure and Function, 2017, 222, 1131-1151.	2.3	24
210	Diattenuation of brain tissue and its impact on 3D polarized light imaging. Biomedical Optics Express, 2017, 8, 3163.	2.9	24
211	1q21.1 distal copy number variants are associated with cerebral and cognitive alterations in humans. Translational Psychiatry, 2021, 11, 182.	4.8	24
212	Autofluorescence enhancement for label-free imaging of myelinated fibers in mammalian brains. Scientific Reports, 2021, 11, 8038.	3.3	24
213	The importance of a human 3D database and atlas for studies of prefrontal and thalamic functions. Progress in Brain Research, 2000, 126, 357-368.	1.4	23
214	Interaction of negative olfactory stimulation and working memory in schizophrenia patients: Development and evaluation of a behavioral neuroimaging task. Psychiatry Research, 2006, 144, 123-130.	3.3	23
215	Sexual Dimorphism and Laterality in the Evolution of the Primate Prefrontal Cortex. Brain, Behavior and Evolution, 2012, 79, 205-212.	1.7	23
216	The Role of Human Parietal Area 7A as a Link between Sequencing in Hand Actions and in Overt Speech Production. Frontiers in Psychology, 2012, 3, 534.	2.1	23

#	Article	IF	Citations
217	A framework based on sulcal constraints to align preterm, infant and adult human brain images acquired in vivo and post mortem. Brain Structure and Function, 2018, 223, 4153-4168.	2.3	23
218	Bilingualism and â€œbrain reserveâ€: a matter of age. Neurobiology of Aging, 2019, 81, 157-165.	3.1	23
219	Advanced brain ageing in Parkinsonâ€™s disease is related to disease duration and individual impairment. Brain Communications, 2021, 3, fcab191.	3.3	23
220	Contour proposal networks for biomedical instance segmentation. Medical Image Analysis, 2022, 77, 102371.	11.6	23
221	Timing of V1/V2 and V5+ activations during coherent motion of dots: An MEG study. NeuroImage, 2007, 37, 1384-1395.	4.2	22
222	Myeloarchitecture and Maps of the Cerebral Cortex. , 2015, , 137-156.		22
223	Linking Brain Structure, Activity, and Cognitive Function through Computation. ENeuro, 2022, 9, ENEURO.0316-21.2022.	1.9	22
224	Transmitter Receptor Distribution in the Human Brain. , 2015, , 261-275.		21
225	Derivation of Fiber Orientations From Oblique Views Through Human Brain Sections in 3D-Polarized Light Imaging. Frontiers in Neuroanatomy, 2018, 12, 75.	1.7	21
226	New boundaries and dissociation of the mouse hippocampus along the dorsalâ€ventral axis based on glutamatergic, <scp>GABAergic</scp> and catecholaminergic receptor densities. Hippocampus, 2021, 31, 56-78.	1.9	21
227	The Anatomical Segregation of the Frontal Cortex: What Does it Mean for Function?. Cortex, 2006, 42, 525-528.	2.4	20
228	Longitudinal Deformation-Based Morphometry Reveals Spatio-Temporal Dynamics of Brain Volume Changes in Patients with Corticobasal Syndrome. PLoS ONE, 2012, 7, e41873.	2.5	20
229	Posterior Parietal Cortex. , 2012, , 1036-1055.		20
230	Activation shift in elderly subjects across functional systems: an fMRI study. Brain Structure and Function, 2014, 219, 707-718.	2.3	20
231	Cross-cultural consistency and diversity in intrinsic functional organization of Broca's Region. NeuroImage, 2017, 150, 177-190.	4.2	20
232	Rigid and non-rigid registration of polarized light imaging data for 3D reconstruction of the temporal lobe of the human brain at micrometer resolution. NeuroImage, 2018, 181, 235-251.	4.2	20
233	Toward a High-Resolution Reconstruction of 3D Nerve Fiber Architectures and Crossings in the Brain Using Light Scattering Measurements and Finite-Difference Time-Domain Simulations. Physical Review X, 2020, 10, .	8.9	20
234	The Languageâ€“Number Interface in the Brain: A Complex Parametric Study of Quantifiers and Quantities. Frontiers in Evolutionary Neuroscience, 2012, 4, 4.	3.7	19

#	Article	IF	Citations
235	Cytoarchitecture and Maps of the Human Cerebral Cortex. , 2015, , 115-135.		19
236	Receptor-driven, multimodal mapping of the human amygdala. Brain Structure and Function, 2018, 223, 1637-1666.	2.3	19
237	Integration of transcriptomic and cytoarchitectonic data implicates a role for MAOA and TAC1 in the limbic-cortical network. Brain Structure and Function, 2018, 223, 2335-2342.	2.3	19
238	Moral Concepts Set Decision Strategies to Abstract Values. PLoS ONE, 2011, 6, e18451.	2.5	18
239	Automatic identification of gray and white matter components in polarized light imaging. NeuroImage, 2012, 59, 1338-1347.	4.2	18
240	Molecular composition of the human primary visual cortex profiled by multimodal mass spectrometry imaging. Brain Structure and Function, 2018, 223, 2767-2783.	2.3	18
241	Scattered Light Imaging: Resolving the substructure of nerve fiber crossings in whole brain sections with micrometer resolution. NeuroImage, 2021, 233, 117952.	4.2	18
242	Three brain collections for comparative neuroanatomy and neuroimaging. Annals of the New York Academy of Sciences, 2011, 1225, E94-104.	3.8	17
243	High-Resolution Fiber and Fiber Tract Imaging Using Polarized Light Microscopy in the Human, Monkey, Rat, and Mouse Brain. , 2016, , 369-389.		17
244	Receptor architecture of macaque and human early visual areas: not equal, but comparable. Brain Structure and Function, 2022, 227, 1247-1263.	2.3	16
245	Emotionâ€“cognition interactions in schizophrenia. World Journal of Biological Psychiatry, 2010, 11, 934-944.	2.6	15
246	Anatomical Basis for Functional Specialization. Biological Magnetic Resonance, 2015, , 27-66.	0.4	15
247	Neurotransmitter receptor density changes in Pitx3ak mice â€“ A model relevant to Parkinsonâ€™s disease. Neuroscience, 2015, 285, 11-23.	2.3	15
248	Cytoarchitectonic Characterization and Functional Decoding of Four New Areas in the Human Lateral Orbitofrontal Cortex. Frontiers in Neuroanatomy, 2020, 14, 2.	1.7	15
249	Improving a probabilistic cytoarchitectonic atlas of auditory cortex using a novel method for inter-individual alignment. ELife, 2020, 9, .	6.0	15
250	Left cytoarchitectonic BA 44 processes syntactic gender violations in determiner phrases. Human Brain Mapping, 2010, 31, 1532-1541.	3.6	14
251	The human brain project: neuroscience perspectives and German contributions. E-Neuroforum, 2014, 5, 43-50.	0.1	14
252	Perceptual segregation of overlapping shapes activates posterior extrastriate visual cortex in man. Experimental Brain Research, 2002, 143, 1-10.	1.5	13

#	Article	IF	Citations
253	From intersubject variability in clinical syndromes to anatomical variability. Brain and Language, 2006, 96, 147-150.	1.6	13
254	The Influence of Handedness on Hemispheric Interaction During Word Production: Insights from Effective Connectivity Analysis. Brain Connectivity, 2011, 1, 219-231.	1.7	13
255	Auditory System. , 2012, , 1270-1300.		13
256	Interactive 3D visualization of structural changes in the brain of a person with corticobasal syndrome. Frontiers in Neuroinformatics, 2014, 8, 42.	2.5	13
257	Longitudinal changes in brains of patients with fluent primary progressive aphasia. Brain and Language, 2014, 131, 11-19.	1.6	13
258	Hippocampus co-atrophy pattern in dementia deviates from covariance patterns across the lifespan. Brain, 2020, 143, 2788-2802.	7.6	13
259	Architectonic Language Research. , 2008, , 33-43.		13
260	Within-task switching in the verbal domain. NeuroImage, 2003, 20, S50-S57.	4.2	12
261	Combined analysis of cytoarchitectonic, molecular and transcriptomic patterns reveal differences in brain organization across human functional brain systems. NeuroImage, 2022, 257, 119286.	4.2	12
262	A new toolbox for combining magnetoencephalographic source analysis and cytoarchitectonic probabilistic data for anatomical classification of dynamic brain activity. NeuroImage, 2007, 34, 1577-1587.	4.2	11
263	Advances in medical image processing. Computer Science - Research and Development, 2011, 26, 1-3.	2.7	11
264	Pathway-Specific Genetic Risk for Alzheimerâ€™s Disease Differentiates Regional Patterns of Cortical Atrophy in Older Adults. Cerebral Cortex, 2019, 30, 801-811.	2.9	11
265	Regional changes of brain structure during progression of idiopathic Parkinson's disease â€“ A longitudinal study using deformation based morphometry. Cortex, 2022, 151, 188-210.	2.4	11
266	Analysis of neuroreceptor PET-data based on cytoarchitectonic maximum probability maps: a feasibility study. Anatomy and Embryology, 2005, 210, 447-453.	1.5	10
267	Atlases of the Human Brain: Tools for Functional Neuroimaging. , 2006, , 566-603.		10
268	Eliciting Dyslexic Symptoms in Proficient Readers by Simulating Deficits in Graphemeâ€toâ€Phoneme Conversion and Visuoâ€Magnocellular Processing. Dyslexia, 2011, 17, 268-281.	1.5	10
269	Convolutional neural networks for cytoarchitectonic brain mapping at large scale. NeuroImage, 2021, 240, 118327.	4.2	10
270	Towards a Multiscale, High-Resolution Model of the Human Brain. Lecture Notes in Computer Science, 2014, , 3-14.	1.3	10

#	Article	IF	Citations
271	Neuropsychological and Brain Volume Differences in Patients with Left- and Right-Beginning Corticobasal Syndrome. PLoS ONE, 2014, 9, e110326.	2.5	10
272	Brain research challenges supercomputing. Science, 2021, 374, 1054-1055.	12.6	10
273	In vivo imaging of the human brain at 1.5 T with 0.6-mm isotropic resolution. Magnetic Resonance Imaging, 2010, 28, 329-340.	1.8	9
274	Dissociated Neural Processing for Decisions in Managers and Non-Managers. PLoS ONE, 2012, 7, e43537.	2.5	9
275	Sentence repetition deficits in the logopenic variant of PPA: linguistic analysis of longitudinal and cross-sectional data. Aphasiology, 2018, 32, 1445-1467.	2.2	9
276	Logical negation mapped onto the brain. Brain Structure and Function, 2020, 225, 19-31.	2.3	9
277	The inferior frontal sulcus: Cortical segregation, molecular architecture and function. Cortex, 2022, 153, 235-256.	2.4	9
278	Cytoarchitecture, probability maps and segregation of the human insula. NeuroImage, 2022, 260, 119453.	4.2	9
279	Multi-Modal Imaging of Neural Correlates of Motor Speed Performance in the Trail Making Test. Frontiers in Neurology, 2015, 6, 219.	2.4	8
280	Reference Volume Generation for Subsequent 3D Reconstruction of Histological Sections. Informatik Aktuell, 2015, , 143-148.	0.6	8
281	Architectonic Mapping of the Human Cerebral Cortex. , 0, , 29-52.		8
282	Scatterometry Measurements With Scattered Light Imaging Enable New Insights Into the Nerve Fiber Architecture of the Brain. Frontiers in Neuroanatomy, 2021, 15, 767223.	1.7	8
283	Parcellation of visual cortex on high-resolution histological brain sections using convolutional neural networks. , 2017, , .		7
284	Identification of Phonology-Related Genes and Functional Characterization of Brocaâ€™s and Wernickeâ€™s Regions in Language and Learning Disorders. Frontiers in Neuroscience, 2021, 15, 680762.	2.8	7
285	Mild Cognitive Impairment: Advantages of a Comprehensive Neuropsychological Assessment. Current Alzheimer Research, 2013, 10, 1098-1106.	1.4	7
286	Persistence of layer IV in the primary motor cortex (area 4) of children with cerebral palsy. Journal FÃ¼r Hirnforschung, 1997, 38, 247-60.	0.0	7
287	Visualization of probabilistic fiber tracts in virtual reality. Studies in Health Technology and Informatics, 2011, 163, 486-92.	0.3	7
288	Understanding the brain through large, multidisciplinary research initiatives. Lancet Neurology, The, 2017, 16, 183-184.	10.2	6

#	Article	IF	Citations
289	Elastic registration of high-resolution 3D PLI data of the human brain. , 2017, , .		6
290	Deep learning networks reflect cytoarchitectonic features used in brain mapping. Scientific Reports, 2020, 10, 22039.	3.3	6
291	Nerve fiber mapping of the human visual cortex using Polarized Light Imaging (PLI). , 2007, , .		5
292	What Data to Co-register for Computing Atlases. , 2007, 2007, .		5
293	Cytoarchitectonics, Receptorarchitectonics, and Network Topology of Language. , 2015, , 177-185.		5
294	Data on a cytoarchitectonic brain atlas: effects of brain template and a comparison to a multimodal atlas. Data in Brief, 2017, 12, 327-332.	1.0	5
295	3D Polarized Light Imaging Portrayed: Visualization of Fiber Architecture Derived from 3D-PLI. , 0, , .		5
296	fastPLI: A Fiber Architecture Simulation Toolbox for 3D-PLI. Journal of Open Source Software, 2021, 6, 3042.	4.6	5
297	Classification of Ambiguous Nerve Fiber Orientations in 3D Polarized Light Imaging. Lecture Notes in Computer Science, 2012, 15, 206-213.	1.3	5
298	Customised Cytoarchitectonic Probability Maps Using Deformable Registration: Primary Auditory Cortex. , 2007, 10, 760-768.		5
299	Cytoarchitectonic parcellation and functional characterization of four new areas in the caudal parahippocampal cortex. Brain Structure and Function, 2022, 227, 1439-1455.	2.3	5
300	Additional fiber orientations in the sagittal stratumâ€"noise or anatomical fine structure?. Brain Structure and Function, 2022, 227, 1331-1345.	2.3	5
301	Automated computation of nerve fibre inclinations from 3D polarised light imaging measurements of brain tissue. Scientific Reports, 2022, 12, 4328.	3.3	5
302	Experimental induction of reading difficulties in normal readers provides novel insights into the neurofunctional mechanisms of visual word recognition. Brain Structure and Function, 2014, 219, 461-471.	2.3	4
303	Connectivity and cortical architecture. E-Neuroforum, 2016, 7, 56-63.	0.1	4
304	Implicit Affective Rivalry: A Behavioral and fMRI Study Combining Olfactory and Auditory Stimulation. Frontiers in Behavioral Neuroscience, 2018, 12, 313.	2.0	4
305	Genetic factors influencing a neurobiological substrate for psychiatric disorders. Translational Psychiatry, 2021, 11, 192.	4.8	4
306	Deep characterization of individual brain-phenotype relations using a multilevel atlas. Current Opinion in Behavioral Sciences, 2021, 40, 153-160.	3.9	4

#	Article	IF	Citations
307	A New Approach for Creating Customizable Cytoarchitectonic Probabilistic Maps without a Template. Lecture Notes in Computer Science, 2009, 12, 795-802.	1.3	4
308	System Comparison for Gait and Balance Monitoring Used for the Evaluation of a Home-Based Training. Sensors, 2022, 22, 4975.	3.8	4
309	Extracting the inclination angle of nerve fibers within the human brain with 3D-PLI independent of system properties. , 2013, , .		3
310	Polarized light imaging of the human brain: a new approach to the data analysis of tilted sections. , 2014, , .		3
311	Reply to: Cognitive dysfunction in spinocerebellar ataxia type 3: Variable topographies and patterns. Movement Disorders, 2014, 29, 157-158.	3.9	3
312	Basal Forebrain Anatomical Systems in MRI Space. , 2015, , 395-409.		3
313	Workflows for Ultra-High Resolution 3D Models of the Human Brain on Massively Parallel Supercomputers. Lecture Notes in Computer Science, 2016, , 15-27.	1.3	3
314	Correlation of Dynamic O-(2-[18F]Fluoroethyl)-L-Tyrosine Positron Emission Tomography, Conventional Magnetic Resonance Imaging, and Whole-Brain Histopathology in a Pretreated Glioblastoma: A Postmortem Study. World Neurosurgery, 2018, 119, e653-e660.	1.3	3
315	FAConstructor: an interactive tool for geometric modeling of nerve fiber architectures in the brain. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1881-1889.	2.8	3
316	A High-Resolution Model of the Human Entorhinal Cortex in the â€˜BigBrainâ€™ â€“ Use Case for Machine Learning and 3D Analyses. Lecture Notes in Computer Science, 2021, , 3-21.	1.3	3
317	Generalizing Longitudinal Age Effects on Brain Structure â€“ A Two-Study Comparison Approach. Frontiers in Human Neuroscience, 2021, 15, 635687.	2.0	3
318	A comparative study of preâ€alpha islands in the entorhinal cortex from selected primates and in lissencephaly. Journal of Comparative Neurology, 2022, 530, 683-704.	1.6	3
319	Dense Fiber Modeling for 3D-Polarized Light Imaging Simulations. Advances in Parallel Computing, 2019, , .	0.3	3
320	Nervensystem und Sinnesorgane. Springer-Lehrbuch, 2010, , 599-764.	0.0	3
321	Cytoarchitectonic Maps of the Human Metathalamus in 3D Space. Frontiers in Neuroanatomy, 2022, 16, 837485.	1.7	3
322	Regional Patterning of Adult Neurogenesis in the Homing Pigeonâ€™s Brain. Frontiers in Psychology, 0, 13, .	2.1	3
323	Hand motor skills covary with size of motor cortex: A macrostructural adaptation?. NeuroImage, 1996, 3, S365.	4.2	2
324	Contrastive Representation Learning For Whole Brain Cytoarchitectonic Mapping In Histological Human Brain Sections. , 2021, , .		2

#	Article	IF	Citations
325	A linguistic complexity pattern that defies aging: The processing of multiple negations. Journal of Neurolinguistics, 2021, 58, 100982.	1.1	2
326	Grundlagen der Morphometrie und Integration anatomischer und funktioneller Bilddaten. , 2007, , 79-89.		2
327	Visualization of Vector Fields Derived from 3D Polarized Light Imaging. Informatik Aktuell, 2016, , 176-181.	0.6	2
328	Polarized Light Imaging and Two-Photon Fluorescence Microscopy correlative approach for 3D reconstruction of the orientation of myelinated fibers. , 2017, , .		2
329	Towards 3D Reconstruction of Neuronal Cell Distributions from Histological Human Brain Sections. Advances in Parallel Computing, 2019, , .	0.3	2
330	GORDA: Graph-Based Orientation Distribution Analysis of SLI Scatterometry Patterns of Nerve Fibres. , 2022, , .		2
331	Behavioral Training Related Neurotransmitter Receptor Expression Dynamics in the Nidopallium Caudolaterale and the Hippocampal Formation of Pigeons. Frontiers in Physiology, 2022, 13, .	2.8	2
332	Simulation-Based Validation of the Physical Model in 3D Polarized Light Imaging. , 2015, , .		1
333	Registration of ultra-high resolution 3D PLI data of human brain sections to their corresponding high-resolution counterpart. , 2017, , .		1
334	Big-data studies need to be part of policy discussion. Nature Human Behaviour, 2018, 2, 94-94.	12.0	1
335	Towards Ultra-High Resolution 3D Reconstruction of a Whole Rat Brain from 3D-PLI Data. Lecture Notes in Computer Science, 2018, , 1-10.	1.3	1
336	Somatosensory area 3b is selectively unaffected in corticobasal syndrome: combining MRI and histology. Neurobiology of Aging, 2020, 94, 89-100.	3.1	1
337	A short-term musical training affects implicit emotion regulation only in behaviour but not in brain activity. BMC Neuroscience, 2021, 22, 30.	1.9	1
338	The Neurotransmitter Receptor Architecture of the Mouse Olfactory System. Frontiers in Neuroanatomy, 2021, 15, 632549.	1.7	1
339	Human Brain Project: Aufbau eines multimodalen Gehirnatlas. , 0, , .		1
340	Multimodaler Atlas des menschlichen Gehirns: Ein Weg zur integrierten Struktur-Funktionsanalyse. E-Neuroforum, 2007, 13, 112-121.	0.1	0
341	Neural Correlates of Lexical Retrieval in Aphasic Spontaneous Language: A Single Case Study. Procedia, Social and Behavioral Sciences, 2010, 6, 101-102.	0.5	0
342	The human brain project: neuroscience perspectives and German contributions. E-Neuroforum, 2014, 20, .	0.1	0

#	Article	IF	Citations
343	The Human Brain Project: Neurowissenschaftliche Perspektiven und BeitrÃge aus Deutschland. E-Neuroforum, 2014, 20, 222-229.	0.1	0
344	PaMiNI-Derived Co-Activation Patterns Indicate DifferentialÂHierarchical Levels for Two Ventral Visual AreasÂof the Fusiform Gyrus. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2015, 187, 892-898.	1.3	0
345	Towards a High-resolution Fiber Model of the Human Brain with 3D Polarized Light Imaging. , 2015, , .		0
346	KonnektivitÃt und kortikale Architektur. E-Neuroforum, 2016, 22, 83-90.	0.1	0
347	Connectivity and cortical architecture. E-Neuroforum, 2016, 22, .	0.1	0
348	Correlative polarized light imaging and two-photon fluorescence microscopy for 3D myelinated fibers reconstruction. Proceedings of SPIE, 2017, , .	0.8	0
349	Evaluating local features in high-resolution 3D-PLI data. , 2018, , .		0
350	Scale-bundle spline-based non-rigid registration for handling fissures. , 2018, , .		0
351	Brodmann Areas. , 2021, , 821-824.		0
352	JÃ¶lich Workshop Excerpts. , 2006, , 271-286.		0
353	Grundlagen der Morphometrie. , 2013, , 87-101.		0
354	Funktionelle Neuroanatomie der Sprache. , 2013, , 425-441.		0
355	Brodmann Areas. , 2018, , 1-4.		0
356	Transmittance and Diattenuation Measurements Reveal Different Properties of Brain Tissue. , 2019, , .		0
357	Light Scattering Measurements Enable an Improved Reconstruction of Nerve Fiber Crossings. , 2020, , .		0
358	Funktionelle Neuroanatomie. , 2007, , 9-59.		0
359	Funktionelle Neuroanatomie der Sprache. , 2007, , 309-320.		0