

Ivica KostoviÄ

List of Publications by Year in descending order

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92
papers

9,100
citations

61984

43
h-index

46799

89
g-index

94
all docs

94
docs citations

94
times ranked

7475
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraordinary neoteny of synaptic spines in the human prefrontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13281-13286.	7.1	1,080
2	Developmental history of the transient subplate zone in the visual and somatosensory cortex of the macaque monkey and human brain. Journal of Comparative Neurology, 1990, 297, 441-470.	1.6	889
3	Cytology and time of origin of interstitial neurons in the white matter in infant and adult human and monkey telencephalon. Journal of Neurocytology, 1980, 9, 219-242.	1.5	471
4	The development of cerebral connections during the first 20â€“45 weeksâ€™ gestation. Seminars in Fetal and Neonatal Medicine, 2006, 11, 415-422.	2.3	449
5	Volume and number of neurons of the human hippocampal formation in normal aging and Alzheimer's disease. Journal of Comparative Neurology, 1997, 379, 482-494.	1.6	436
6	Laminar Organization of the Human Fetal Cerebrum Revealed by Histochemical Markers and Magnetic Resonance Imaging. Cerebral Cortex, 2002, 12, 536-544.	2.9	370
7	The development of the subplate and thalamocortical connections in the human foetal brain. Acta Paediatrica, International Journal of Paediatrics, 2010, 99, 1119-1127.	1.5	366
8	Prenatal development of neurons in the human prefrontal cortex: I. A qualitative Golgi study. Journal of Comparative Neurology, 1988, 271, 355-386.	1.6	267
9	Lifespan Alterations of Basal Dendritic Trees of Pyramidal Neurons in the Human Prefrontal Cortex: A Layer-Specific Pattern. Cerebral Cortex, 2008, 18, 915-929.	2.9	248
10	Transient cholinesterase staining in the mediodorsal nucleus of the thalamus and its connections in the developing human and monkey brain. Journal of Comparative Neurology, 1983, 219, 431-447.	1.6	246
11	New insights into the development of the human cerebral cortex. Journal of Anatomy, 2019, 235, 432-451.	1.5	224
12	Prenatal development of neurons in the human prefrontal cortex. II. A quantitative Golgi study. Journal of Comparative Neurology, 1992, 316, 485-496.	1.6	191
13	Correlation between the sequential ingrowth of afferents and transient patterns of cortical lamination in preterm infants. The Anatomical Record, 2002, 267, 1-6.	1.8	190
14	Perinatal and early postnatal reorganization of the subplate and related cellular compartments in the human cerebral wall as revealed by histological and MRI approaches. Brain Structure and Function, 2014, 219, 231-253.	2.3	147
15	Development of axonal pathways in the human fetal frontoâ€“limbic brain: histochemical characterization and diffusion tensor imaging. Journal of Anatomy, 2010, 217, 400-417.	1.5	144
16	Structural, immunocytochemical, and mr imaging properties of periventricular crossroads of growing cortical pathways in preterm infants. American Journal of Neuroradiology, 2005, 26, 2671-84.	2.4	144
17	Neural histology and neurogenesis of the human fetal and infant brain. NeuroImage, 2019, 188, 743-773.	4.2	135
18	Insights From In Vitro Fetal Magnetic Resonance Imaging of Cerebral Development. Seminars in Perinatology, 2009, 33, 220-233.	2.5	133

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19	In vitro MRI of brain development. <i>European Journal of Radiology</i> , 2006, 57, 187-198.	2.6	132
20	Prolonged coexistence of transient and permanent circuitry elements in the developing cerebral cortex of fetuses and preterm infants. <i>Developmental Medicine and Child Neurology</i> , 2006, 48, 388-393.	2.1	128
21	Species-Dependent Posttranscriptional Regulation of NOS1 by FMRP in the Developing Cerebral Cortex. <i>Cell</i> , 2012, 149, 899-911.	28.9	115
22	Ontogenesis of goal-directed behavior: anatomo-functional considerations. <i>International Journal of Psychophysiology</i> , 1995, 19, 85-102.	1.0	113
23	Transient patterns of cortical lamination during prenatal life: Do they have implications for treatment?. <i>Neuroscience and Biobehavioral Reviews</i> , 2007, 31, 1157-1168.	6.1	103
24	nNOS Expression in Reactive Astrocytes Correlates with Increased Cell Death Related DNA Damage in the Hippocampus and Entorhinal Cortex in Alzheimer's Disease. <i>Experimental Neurology</i> , 2000, 165, 12-26.	4.1	102
25	Growth of Thalamocortical Fibers to the Somatosensory Cortex in the Human Fetal Brain. <i>Frontiers in Neuroscience</i> , 2017, 11, 233.	2.8	101
26	Quantitative and Qualitative Analysis of Transient Fetal Compartments during Prenatal Human Brain Development. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 11.	1.7	97
27	Developmental history of the subplate zone, subplate neurons and interstitial white matter neurons: relevance for schizophrenia. <i>International Journal of Developmental Neuroscience</i> , 2011, 29, 193-205.	1.6	92
28	Secondary expansion of the transient subplate zone in the developing cerebrum of human and nonhuman primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9892-9897.	7.1	91
29	Primate-specific origins and migration of cortical GABAergic neurons. <i>Frontiers in Neuroanatomy</i> , 2009, 3, 26.	1.7	89
30	Structural basis of the developmental plasticity in the human cerebral cortex: The role of the transient subplate zone. <i>Metabolic Brain Disease</i> , 1989, 4, 17-23.	2.9	83
31	Transient fetal structure, the gangliothalamic body, connects telencephalic germinal zone with all thalamic regions in the developing human brain. <i>Journal of Comparative Neurology</i> , 1997, 384, 373-395.	1.6	73
32	The enigmatic fetal subplate compartment forms an early tangential cortical nexus and provides the framework for construction of cortical connectivity. <i>Progress in Neurobiology</i> , 2020, 194, 101883.	5.7	66
33	Coupling Diffusion Imaging with Histological and Gene Expression Analysis to Examine the Dynamics of Cortical Areas across the Fetal Period of Human Brain Development. <i>Cerebral Cortex</i> , 2013, 23, 2620-2631.	2.9	65
34	Nitrinergic neurons in the developing and adult human telencephalon: Transient and permanent patterns of expression in comparison to other mammals. <i>Microscopy Research and Technique</i> , 1999, 45, 401-419.	2.2	64
35	Ultrastructural Analysis and TUNEL Demonstrate Motor Neuron Apoptosis in Werdnig-Hoffmann Disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2000, 59, 398-407.	1.7	64
36	Patient-specific Alzheimer-like pathology in trisomy 21 cerebral organoids reveals BACE2 as a gene dose-sensitive AD suppressor in human brain. <i>Molecular Psychiatry</i> , 2021, 26, 5766-5788.	7.9	63

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37	Acetylcholinesterase in the human frontal associative cortex during the period of cognitive development: early laminar shifts and late innervation of pyramidal neurons. <i>Neuroscience Letters</i> , 1988, 90, 107-112.	2.1	57
38	The significance of the subplate for evolution and developmental plasticity of the human brain. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 423.	2.0	56
39	Spatiotemporal Relationship of Brain Pathways during Human Fetal Development Using High-Angular Resolution Diffusion MR Imaging and Histology. <i>Frontiers in Neuroscience</i> , 2017, 11, 348.	2.8	56
40	Early areal differentiation of the human cerebral cortex: Entorhinal area. <i>Hippocampus</i> , 1993, 3, 447-458.	1.9	54
41	Prominent periventricular fiber system related to ganglionic eminence and striatum in the human fetal cerebrum. <i>Brain Structure and Function</i> , 2011, 215, 237-253.	2.3	52
42	Perinatal growth of prefrontal layer III pyramids in down syndrome. <i>Pediatric Neurology</i> , 2002, 27, 36-38.	2.1	50
43	Laminar distribution of neuropeptide Y-immunoreactive neurons in human prefrontal cortex during development. , 1997, 379, 515-522.		47
44	Developmental Dynamics of Radial Vulnerability in the Cerebral Compartments in Preterm Infants and Neonates. <i>Frontiers in Neurology</i> , 2014, 5, 139.	2.4	46
45	Sublaminar organization of the human subplate: developmental changes in the distribution of neurons, glia, growing axons and extracellular matrix. <i>Journal of Anatomy</i> , 2019, 235, 481-506.	1.5	45
46	Development of the lateral amygdaloid nucleus in the human fetus: transient presence of discrete cytoarchitectonic units. <i>Anatomy and Embryology</i> , 1986, 174, 355-360.	1.5	44
47	Epigenetic regulation of fetal brain development and neurocognitive outcome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11062-11063.	7.1	43
48	The Zagreb Collection of human brains: a unique, versatile, but underexploited resource for the neuroscience community. <i>Annals of the New York Academy of Sciences</i> , 2011, 1225, E105-30.	3.8	42
49	The Relevance of Human Fetal Subplate Zone for Developmental Neuropathology of Neuronal Migration Disorders and Cortical Dysplasia. <i>CNS Neuroscience and Therapeutics</i> , 2015, 21, 74-82.	3.9	42
50	Translational derepression of Elavl4Äisoforms at their alternative 5â¬2 UTRs determines neuronal development. <i>Nature Communications</i> , 2020, 11, 1674.	12.8	40
51	The terminal distribution of accessory optic fibers in the rat. <i>Brain Research</i> , 1971, 31, 202-206.	2.2	37
52	Autism Spectrum Disorders: Multiple Routes to, and Multiple Consequences of, Abnormal Synaptic Function and Connectivity. <i>Neuroscientist</i> , 2021, 27, 10-29.	3.5	37
53	Interactive histogenesis of axonal strata and proliferative zones in the human fetal cerebral wall. <i>Brain Structure and Function</i> , 2018, 223, 3919-3943.	2.3	36
54	Growth of the human corpus callosum: modular and laminar morphogenetic zones. <i>Frontiers in Neuroanatomy</i> , 2009, 3, 6.	1.7	35

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55	New Horizons for the Subplate Zone and Its Pioneering Neurons. <i>Cerebral Cortex</i> , 2009, 19, 1705-1707.	2.9	35
56	Morphology, molecular phenotypes and distribution of neurons in developing human corpus callosum. <i>European Journal of Neuroscience</i> , 2010, 32, 1423-1432.	2.6	34
57	Prenatal and perinatal development of the somatostatin-immunoreactive neurons in the human prefrontal cortex. <i>Neuroscience Letters</i> , 1991, 124, 153-156.	2.1	33
58	Involvement of the Subplate Zone in Preterm Infants with Periventricular White Matter Injury. <i>Brain Pathology</i> , 2014, 24, 128-141.	4.1	33
59	Neural ECM in laminar organization and connectivity development in healthy and diseased human brain. <i>Progress in Brain Research</i> , 2014, 214, 159-178.	1.4	30
60	Fundamentals of the Development of Connectivity in the Human Fetal Brain in Late Gestation: From 24 Weeks Gestational Age to Term. <i>Journal of Neuropathology and Experimental Neurology</i> , 2021, 80, 393-414.	1.7	30
61	Nucleus subputaminalis: neglected part of the basal nucleus of Meynert. <i>Brain</i> , 2006, 129, E42-E42.	7.6	23
62	Transient cellular structures in developing corpus callosum of the human brain. <i>Collegium Antropologicum</i> , 2006, 30, 375-81.	0.2	21
63	Transient fetal structure, the gangliothalamic body, connects telencephalic germinal zone with all thalamic regions in the developing human brain. <i>Journal of Comparative Neurology</i> , 1997, 384, 373-395.	1.6	19
64	Histochemical localization of nitric oxide synthase in the CNS. <i>Trends in Neurosciences</i> , 1994, 17, 105-106.	8.6	18
65	Dendritic overgrowth and alterations in laminar phenotypes of neocortical neurons in the newborn with semilobar holoprosencephaly. <i>Brain and Development</i> , 2003, 25, 32-39.	1.1	18
66	Coevolution in the timing of GABAergic and pyramidal neuron maturation in primates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20171169.	2.6	18
67	The Role of the Subplate Zone in the Structural Plasticity of the Developing Human Cerebral Cortex. <i>Neuroembryology and Aging</i> , 2002, 1, 145-153.	0.1	17
68	Region-specific reduction in brain volume in young adults with perinatal hypoxic-ischaemic encephalopathy. <i>European Journal of Paediatric Neurology</i> , 2013, 17, 608-614.	1.6	17
69	Structural changes in brains of patients with disorders of consciousness treated with deep brain stimulation. <i>Scientific Reports</i> , 2021, 11, 4401.	3.3	17
70	Cytoarchitectonic Parameters of Developmental Capacity of the Human Associative Auditory Cortex during Postnatal Life. <i>Acta Oto-Laryngologica</i> , 1988, 105, 463-466.	0.9	15
71	Transient patterns of calbindin-D28k expression in the developing striatum of man. <i>Neuroscience Letters</i> , 1996, 220, 211-214.	2.1	15
72	Cortical white matter: beyond the pale remarks, main conclusions and discussion. <i>Frontiers in Neuroanatomy</i> , 2010, 4, 4.	1.7	14

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73	Subplate zone of the human brain: historical perspective and new concepts. <i>Collegium Antropologicum</i> , 2008, 32 Suppl 1, 3-8.	0.2	12
74	Laminar Organization of the Marginal Zone in the Human Fetal Cortex. <i>Neuroembryology and Aging</i> , 2004, 3, 19-26.	0.1	10
75	The Zagreb Collection of human brains: entering the virtual world. <i>Croatian Medical Journal</i> , 2018, 59, 283-287.	0.7	10
76	War victims in need of physical rehabilitation in Croatia. <i>Scandinavian Journal of Public Health</i> , 1997, 25, 202-206.	0.6	9
77	Morphological Characteristics of the Cells in the Subcallosal Zone (Nucleus septohippocampalis) of the Human Fetus. <i>Neuroembryology and Aging</i> , 2002, 1, 97-104.	0.1	8
78	Adult Upper Cortical Layer Specific Transcription Factor CUX2 Is Expressed in Transient Subplate and Marginal Zone Neurons of the Developing Human Brain. <i>Cells</i> , 2021, 10, 415.	4.1	7
79	Prenatal development of the human entorhinal cortex. <i>Journal of Comparative Neurology</i> , 2022, 530, 2711-2748.	1.6	7
80	Attacks on Croatia's hospitals. <i>Lancet, The</i> , 1991, 338, 1018.	13.7	6
81	Transient structural MRI patterns correlate with the motor functions in preterm infants. <i>Brain and Development</i> , 2021, 43, 363-371.	1.1	5
82	fMRI neural activation patterns induced by professional military training. <i>Translational Neuroscience</i> , 2012, 3, 46-50.	1.4	4
83	Structural Changes in the Cortico-Ponto-Cerebellar Axis at Birth are Associated with Abnormal Neurological Outcomes in Childhood. <i>Clinical Neuroradiology</i> , 2021, 31, 1005-1020.	1.9	4
84	Neuroscience in Yugoslavia. <i>Trends in Neurosciences</i> , 1991, 14, 171-175.	8.6	3
85	Congenital brain anomalies and chromosomal aberrations from the Zagreb Collection of human brains. <i>Translational Neuroscience</i> , 2014, 5, .	1.4	3
86	Maturation of Cerebral Connections and Fetal Behavior. <i>Donald School Journal of Ultrasound in Obstetrics and Gynecology</i> , 2008, 2, 80-86.	0.3	3
87	Transient compartmentalization and accelerated volume growth coincide with the expected development of cortical afferents in the human neostriatum. <i>Cerebral Cortex</i> , 2022, 33, 434-457.	2.9	3
88	The Development of Medial Geniculate Body in Man: Changes in the Cholinesterase (CHE) Activity During Fetal and Perinatal Life. <i>Acta Oto-Laryngologica</i> , 1983, 95, 695-699.	0.9	2
89	Virtual reality adaptive stimulation of limbic networks in the mental readiness training. <i>Studies in Health Technology and Informatics</i> , 2010, 154, 14-9.	0.3	2
90	Transient Subplate Sublayer Forms Unique Corridor for Differential Ingrowth of Associative Pulvinar and Primary Visual Projection in the Prospective Visual Cortical Areas of the Human Fetal Occipital Lobe. <i>Cerebral Cortex</i> , 2021, 32, 110-122.	2.9	1

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91	Neuroscience of developing axonal strata in the human fetal brain. , 2021, , 299-307.		0
92	Linking histology and neurological development of the fetal and infant brain. , 2021, , 213-225.		0