

Ivica KostoviÄ

List of Publications by Year in descending order

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92
papers

9,100
citations

71004

43
h-index

54771

88
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94
docs citations

94
times ranked

8344
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.6	3
2	Prenatal development of the human entorhinal cortex. <i>Journal of Comparative Neurology</i> , 2022, 530, 2711-2748.	0.9	7
3	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.	4.1	63
4	Transient structural MRI patterns correlate with the motor functions in preterm infants. <i>Brain and Development</i> , 2021, 43, 363-371.	0.6	5
5	Neuroscience of developing axonal strata in the human fetal brain. , 2021, , 299-307.		0
6	Linking histology and neurological development of the fetal and infant brain. , 2021, , 213-225.		0
7	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.	1.8	7
8	Structural changes in brains of patients with disorders of consciousness treated with deep brain stimulation. <i>Scientific Reports</i> , 2021, 11, 4401.	1.6	17
9	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.	0.9	30
10	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.	1.0	4
11	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.	1.6	1
12	Autism Spectrum Disorders: Multiple Routes to, and Multiple Consequences of, Abnormal Synaptic Function and Connectivity. <i>Neuroscientist</i> , 2021, 27, 10-29.	2.6	37
13	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.	2.8	66
14	Translational derepression of Elavl4 isoforms at their alternative 5' UTRs determines neuronal development. <i>Nature Communications</i> , 2020, 11, 1674.	5.8	40
15	New insights into the development of the human cerebral cortex. <i>Journal of Anatomy</i> , 2019, 235, 432-451.	0.9	224
16	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.	0.9	45
17	Neural histology and neurogenesis of the human fetal and infant brain. <i>NeuroImage</i> , 2019, 188, 743-773.	2.1	135
18	Interactive histogenesis of axonal strata and proliferative zones in the human fetal cerebral wall. <i>Brain Structure and Function</i> , 2018, 223, 3919-3943.	1.2	36

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19	The Zagreb Collection of human brains: entering the virtual world. <i>Croatian Medical Journal</i> , 2018, 59, 283-287.	0.2	10
20	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.	1.2	18
21	Growth of Thalamocortical Fibers to the Somatosensory Cortex in the Human Fetal Brain. <i>Frontiers in Neuroscience</i> , 2017, 11, 233.	1.4	101
22	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.	1.4	56
23	Quantitative and Qualitative Analysis of Transient Fetal Compartments during Prenatal Human Brain Development. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 11.	0.9	97
24	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.	3.3	91
25	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.	1.9	42
26	Neural ECM in laminar organization and connectivity development in healthy and diseased human brain. <i>Progress in Brain Research</i> , 2014, 214, 159-178.	0.9	30
27	Involvement of the Subplate Zone in Preterm Infants with Periventricular White Matter Injury. <i>Brain Pathology</i> , 2014, 24, 128-141.	2.1	33
28	Developmental Dynamics of Radial Vulnerability in the Cerebral Compartments in Preterm Infants and Neonates. <i>Frontiers in Neurology</i> , 2014, 5, 139.	1.1	46
29	Perinatal and early postnatal reorganization of the subplate and related cellular compartments in the human cerebral wall as revealed by histological and MRI approaches. <i>Brain Structure and Function</i> , 2014, 219, 231-253.	1.2	147
30	Congenital brain anomalies and chromosomal aberrations from the Zagreb Collection of human brains. <i>Translational Neuroscience</i> , 2014, 5, .	0.7	3
31	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.	0.7	17
32	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.	1.6	65
33	The significance of the subplate for evolution and developmental plasticity of the human brain. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 423.	1.0	56
34	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.	3.3	43
35	Species-Dependent Posttranscriptional Regulation of NOS1 by FMRP in the Developing Cerebral Cortex. <i>Cell</i> , 2012, 149, 899-911.	13.5	115
36	fMRI neural activation patterns induced by professional military training. <i>Translational Neuroscience</i> , 2012, 3, 46-50.	0.7	4

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37	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.	0.7	92
38	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.	1.8	42
39	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.	1.2	52
40	Extraordinary neoteny of synaptic spines in the human prefrontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13281-13286.	3.3	1,080
41	The development of the subplate and thalamocortical connections in the human foetal brain. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2010, 99, 1119-1127.	0.7	366
42	Development of axonal pathways in the human fetal fronto-Ålimbic brain: histochemical characterization and diffusion tensor imaging. <i>Journal of Anatomy</i> , 2010, 217, 400-417.	0.9	144
43	Morphology, molecular phenotypes and distribution of neurons in developing human corpus callosum. <i>European Journal of Neuroscience</i> , 2010, 32, 1423-1432.	1.2	34
44	Cortical white matter: beyond the pale remarks, main conclusions and discussion. <i>Frontiers in Neuroanatomy</i> , 2010, 4, 4.	0.9	14
45	Virtual reality adaptive stimulation of limbic networks in the mental readiness training. <i>Studies in Health Technology and Informatics</i> , 2010, 154, 14-9.	0.2	2
46	Growth of the human corpus callosum: modular and laminar morphogenetic zones. <i>Frontiers in Neuroanatomy</i> , 2009, 3, 6.	0.9	35
47	Primate-specific origins and migration of cortical GABAergic neurons. <i>Frontiers in Neuroanatomy</i> , 2009, 3, 26.	0.9	89
48	New Horizons for the Subplate Zone and Its Pioneering Neurons. <i>Cerebral Cortex</i> , 2009, 19, 1705-1707.	1.6	35
49	Insights From In Vitro Fetal Magnetic Resonance Imaging of Cerebral Development. <i>Seminars in Perinatology</i> , 2009, 33, 220-233.	1.1	133
50	Lifespan Alterations of Basal Dendritic Trees of Pyramidal Neurons in the Human Prefrontal Cortex: A Layer-Specific Pattern. <i>Cerebral Cortex</i> , 2008, 18, 915-929.	1.6	248
51	Maturation of Cerebral Connections and Fetal Behavior. <i>Donald School Journal of Ultrasound in Obstetrics and Gynecology</i> , 2008, 2, 80-86.	0.1	3
52	Subplate zone of the human brain: historical perspective and new concepts. <i>Collegium Antropologicum</i> , 2008, 32 Suppl 1, 3-8.	0.1	12
53	Transient patterns of cortical lamination during prenatal life: Do they have implications for treatment?. <i>Neuroscience and Biobehavioral Reviews</i> , 2007, 31, 1157-1168.	2.9	103
54	The development of cerebral connections during the first 20-Å“45 weeks-Å™ gestation. <i>Seminars in Fetal and Neonatal Medicine</i> , 2006, 11, 415-422.	1.1	449

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55	In vitro MRI of brain development. <i>European Journal of Radiology</i> , 2006, 57, 187-198.	1.2	132
56	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.	1.1	128
57	Nucleus subputaminalis: neglected part of the basal nucleus of Meynert. <i>Brain</i> , 2006, 129, E42-E42.	3.7	23
58	Transient cellular structures in developing corpus callosum of the human brain. <i>Collegium Antropologicum</i> , 2006, 30, 375-81.	0.1	21
59	Structural, immunocytochemical, and mr imaging properties of periventricular crossroads of growing cortical pathways in preterm infants. <i>American Journal of Neuroradiology</i> , 2005, 26, 2671-84.	1.2	144
60	Laminar Organization of the Marginal Zone in the Human Fetal Cortex. <i>Neuroembryology and Aging</i> , 2004, 3, 19-26.	0.1	10
61	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.	0.6	18
62	Laminar Organization of the Human Fetal Cerebrum Revealed by Histochemical Markers and Magnetic Resonance Imaging. <i>Cerebral Cortex</i> , 2002, 12, 536-544.	1.6	370
63	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
64	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
65	Perinatal growth of prefrontal layer III pyramids in down syndrome. <i>Pediatric Neurology</i> , 2002, 27, 36-38.	1.0	50
66	Correlation between the sequential ingrowth of afferents and transient patterns of cortical lamination in preterm infants. <i>The Anatomical Record</i> , 2002, 267, 1-6.	2.3	190
67	Ultrastructural Analysis and TUNEL Demonstrate Motor Neuron Apoptosis in Werdnig-Hoffmann Disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2000, 59, 398-407.	0.9	64
68	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.	2.0	102
69	Nitric 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.	1.2	64
70	War victims in need of physical rehabilitation in Croatia. <i>Scandinavian Journal of Public Health</i> , 1997, 25, 202-206.	0.6	9
71	Volume and number of neurons of the human hippocampal formation in normal aging and Alzheimer's disease. , 1997, 379, 482-494.		436
72	Laminar distribution of neuropeptide Y-immunoreactive neurons in human prefrontal cortex during development. , 1997, 379, 515-522.		47

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73	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.	0.9	73
74	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, 373-95.	0.9	19
75	Transient patterns of calbindin-D28k expression in the developing striatum of man. <i>Neuroscience Letters</i> , 1996, 220, 211-214.	1.0	15
76	Ontogenesis of goal-directed behavior: anatomo-functional considerations. <i>International Journal of Psychophysiology</i> , 1995, 19, 85-102.	0.5	113
77	Histochemical localization of nitric oxide synthase in the CNS. <i>Trends in Neurosciences</i> , 1994, 17, 105-106.	4.2	18
78	Early areal differentiation of the human cerebral cortex: Entorhinal area. <i>Hippocampus</i> , 1993, 3, 447-458.	0.9	54
79	Prenatal development of neurons in the human prefrontal cortex. II. A quantitative Golgi study. <i>Journal of Comparative Neurology</i> , 1992, 316, 485-496.	0.9	191
80	Neuroscience in Yugoslavia. <i>Trends in Neurosciences</i> , 1991, 14, 171-175.	4.2	3
81	Attacks on Croatia's hospitals. <i>Lancet, The</i> , 1991, 338, 1018.	6.3	6
82	Prenatal and perinatal development of the somatostatin-immunoreactive neurons in the human prefrontal cortex. <i>Neuroscience Letters</i> , 1991, 124, 153-156.	1.0	33
83	Developmental history of the transient subplate zone in the visual and somatosensory cortex of the macaque monkey and human brain. <i>Journal of Comparative Neurology</i> , 1990, 297, 441-470.	0.9	889
84	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.	1.4	83
85	Prenatal development of neurons in the human prefrontal cortex: I. A qualitative Golgi study. <i>Journal of Comparative Neurology</i> , 1988, 271, 355-386.	0.9	267
86	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.	1.0	57
87	Cytoarchitectonic Parameters of Developmental Capacity of the Human Associative Auditory Cortex during Postnatal Life. <i>Acta Oto-Laryngologica</i> , 1988, 105, 463-466.	0.3	15
88	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
89	Transient cholinesterase staining in the mediodorsal nucleus of the thalamus and its connections in the developing human and monkey brain. <i>Journal of Comparative Neurology</i> , 1983, 219, 431-447.	0.9	246
90	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.	0.3	2

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91	Cytology and time of origin of interstitial neurons in the white matter in infant and adult human and monkey telencephalon. <i>Journal of Neurocytology</i> , 1980, 9, 219-242.	1.6	471
92	The terminal distribution of accessory optic fibers in the rat. <i>Brain Research</i> , 1971, 31, 202-206.	1.1	37