Ivica KostoviÄ

List of Publications by Year
in descending order

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	Transient compartmentalization and accelerated volume growth coincide with the expected development of cortical afferents in the human neostriatum. Cerebral Cortex, 2022, 33, 434-457.	2.9	3
2	Prenatal development of the human entorhinal cortex. Journal of Comparative Neurology, 2022, 530, 2711-2748.	1.6	7
3	Patient-specific Alzheimer-like pathology in trisomy 21 cerebral organoids reveals BACE2 as a gene dose-sensitive AD suppressor in human brain. Molecular Psychiatry, 2021, 26, 5766-5788.	7.9	63
4	Transient structural MRI patterns correlate with the motor functions in preterm infants. Brain and Development, 2021, 43, 363-371.	1.1	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. Cells, 2021, 10, 415.	4.1	7
8	Structural changes in brains of patients with disorders of consciousness treated with deep brain stimulation. Scientific Reports, 2021, 11, 4401.	3.3	17
9	Fundamentals of the Development of Connectivity in the Human Fetal Brain in Late Gestation: From 24 Weeks Gestational Age to Term. Journal of Neuropathology and Experimental Neurology, 2021, 80, 393-414.	1.7	30
10	Structural Changes in the Cortico-Ponto-Cerebellar Axis at Birth are Associated with Abnormal Neurological Outcomes in Childhood. Clinical Neuroradiology, 2021, 31, 1005-1020.	1.9	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. Cerebral Cortex, 2021, 32, 110-122.	2.9	1
12	Autism Spectrum Disorders: Multiple Routes to, and Multiple Consequences of, Abnormal Synaptic Function and Connectivity. Neuroscientist, 2021, 27, 10-29.	3.5	37
13	The enigmatic fetal subplate compartment forms an early tangential cortical nexus and provides the framework for construction of cortical connectivity. Progress in Neurobiology, 2020, 194, 101883.	5.7	66
14	Translational derepression of Elavl4Âisoforms at their alternative 5â€² UTRs determines neuronal development. Nature Communications, 2020, 11, 1674.	12.8	40
15	New insights into the development of the human cerebral cortex. Journal of Anatomy, 2019, 235, 432-451.	1.5	224
16	Sublaminar organization of the human subplate: developmental changes in the distribution of neurons, glia, growing axons and extracellular matrix. Journal of Anatomy, 2019, 235, 481-506.	1.5	45
17	Neural histology and neurogenesis of the human fetal and infant brain. NeuroImage, 2019, 188, 743-773.	4.2	135
18	Interactive histogenesis of axonal strata and proliferative zones in the human fetal cerebral wall. Brain Structure and Function, 2018, 223, 3919-3943.	2.3	36

#	Article	IF	Citations
19	The Zagreb Collection of human brains: entering the virtual world. Croatian Medical Journal, 2018, 59, 283-287.	0.7	10
20	Coevolution in the timing of GABAergic and pyramidal neuron maturation in primates. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171169.	2.6	18
21	Growth of Thalamocortical Fibers to the Somatosensory Cortex in the Human Fetal Brain. Frontiers in Neuroscience, 2017, 11, 233.	2.8	101
22	Spatiotemporal Relationship of Brain Pathways during Human Fetal Development Using High-Angular Resolution Diffusion MR Imaging and Histology. Frontiers in Neuroscience, 2017, 11, 348.	2.8	56
23	Quantitative and Qualitative Analysis of Transient Fetal Compartments during Prenatal Human Brain Development. Frontiers in Neuroanatomy, 2016, 10, 11.	1.7	97
24	Secondary expansion of the transient subplate zone in the developing cerebrum of human and nonhuman primates. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9892-9897.	7.1	91
25	The Relevance of Human Fetal Subplate Zone for Developmental Neuropathology of Neuronal Migration Disorders and Cortical Dysplasia. CNS Neuroscience and Therapeutics, 2015, 21, 74-82.	3.9	42
26	Neural ECM in laminar organization and connectivity development in healthy and diseased human brain. Progress in Brain Research, 2014, 214, 159-178.	1.4	30
27	Involvement of the Subplate Zone in Preterm Infants with Periventricular White Matter Injury. Brain Pathology, 2014, 24, 128-141.	4.1	33
28	Developmental Dynamics of Radial Vulnerability in the Cerebral Compartments in Preterm Infants and Neonates. Frontiers in Neurology, 2014, 5, 139.	2.4	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. Brain Structure and Function, 2014, 219, 231-253.	2.3	147
30	Congenital brain anomalies and chromosomal aberrations from the Zagreb Collection of human brains. Translational Neuroscience, 2014, 5, .	1.4	3
31	Region-specific reduction in brain volume in young adults with perinatal hypoxic-ischaemic encephalopathy. European Journal of Paediatric Neurology, 2013, 17, 608-614.	1.6	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. Cerebral Cortex, 2013, 23, 2620-2631.	2.9	65
33	The significance of the subplate for evolution and developmental plasticity of the human brain. Frontiers in Human Neuroscience, 2013, 7, 423.	2.0	56
34	Epigenetic regulation of fetal brain development and neurocognitive outcome. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11062-11063.	7.1	43
35	Species-Dependent Posttranscriptional Regulation of NOS1 by FMRP in the Developing Cerebral Cortex. Cell, 2012, 149, 899-911.	28.9	115
36	fMRI neural activation patterns induced by professional military training. Translational Neuroscience, 2012, 3, 46-50.	1.4	4

#	Article	IF	Citations
37	Developmental history of the subplate zone, subplate neurons and interstitial white matter neurons: relevance for schizophrenia. International Journal of Developmental Neuroscience, 2011, 29, 193-205.	1.6	92
38	The Zagreb Collection of human brains: a unique, versatile, but underexploited resource for the neuroscience community. Annals of the New York Academy of Sciences, 2011, 1225, E105-30.	3.8	42
39	Prominent periventricular fiber system related to ganglionic eminence and striatum in the human fetal cerebrum. Brain Structure and Function, 2011, 215, 237-253.	2.3	52
40	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
41	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
42	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
43	Morphology, molecular phenotypes and distribution of neurons in developing human corpus callosum. European Journal of Neuroscience, 2010, 32, 1423-1432.	2.6	34
44	Cortical white matter: beyond the pale remarks, main conclusions and discussion. Frontiers in Neuroanatomy, 2010, 4, 4.	1.7	14
45	Virtual reality adaptive stimulation of limbic networks in the mental readiness training. Studies in Health Technology and Informatics, 2010, 154, 14-9.	0.3	2
46	Growth of the human corpus callosum: modular and laminar morphogenetic zones. Frontiers in Neuroanatomy, 2009, 3, 6.	1.7	35
47	Primate-specific origins and migration of cortical GABAergic neurons. Frontiers in Neuroanatomy, 2009, 3, 26.	1.7	89
48	New Horizons for the Subplate Zone and Its Pioneering Neurons. Cerebral Cortex, 2009, 19, 1705-1707.	2.9	35
49	Insights From In Vitro Fetal Magnetic Resonance Imaging of Cerebral Development. Seminars in Perinatology, 2009, 33, 220-233.	2.5	133
50	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
51	Maturation of Cerebral Connections and Fetal Behavior. Donald School Journal of Ultrasound in Obstetrics and Gynecology, 2008, 2, 80-86.	0.3	3
52	Subplate zone of the human brain: historical perspective and new concepts. Collegium Antropologicum, 2008, 32 Suppl 1, 3-8.	0.2	12
53	Transient patterns of cortical lamination during prenatal life: Do they have implications for treatment?. Neuroscience and Biobehavioral Reviews, 2007, 31, 1157-1168.	6.1	103
54	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

#	Article	IF	Citations
55	In vitro MRI of brain development. European Journal of Radiology, 2006, 57, 187-198.	2.6	132
56	Prolonged coexistence of transient and permanent circuitry elements in the developing cerebral cortex of fetuses and preterm infants. Developmental Medicine and Child Neurology, 2006, 48, 388-393.	2.1	128
57	Nucleus subputaminalis: neglected part of the basal nucleus of Meynert. Brain, 2006, 129, E42-E42.	7.6	23
58	Transient cellular structures in developing corpus callosum of the human brain. Collegium Antropologicum, 2006, 30, 375-81.	0.2	21
59	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
60	Laminar Organization of the Marginal Zone in the Human Fetal Cortex. Neuroembryology and Aging, 2004, 3, 19-26.	0.1	10
61	Dendritic overgrowth and alterations in laminar phenotypes of neocortical neurons in the newborn with semilobar holoprosencephaly. Brain and Development, 2003, 25, 32-39.	1.1	18
62	Laminar Organization of the Human Fetal Cerebrum Revealed by Histochemical Markers and Magnetic Resonance Imaging. Cerebral Cortex, 2002, 12, 536-544.	2.9	370
63	The Role of the Subplate Zone in the Structural Plasticity of the Developing Human Cerebral Cortex. Neuroembryology and Aging, 2002, 1, 145-153.	0.1	17
64	Morphological Characteristics of the Cells in the Subcallosal Zone (Nucleus septohippocampalis) of the Human Fetus. Neuroembryology and Aging, 2002, 1, 97-104.	0.1	8
65	Perinatal growth of prefrontal layer III pyramids in down syndrome. Pediatric Neurology, 2002, 27, 36-38.	2.1	50
66	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
67	Ultrastructural Analysis and TUNEL Demonstrate Motor Neuron Apoptosis in Werdnig-Hoffmann Disease. Journal of Neuropathology and Experimental Neurology, 2000, 59, 398-407.	1.7	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. Experimental Neurology, 2000, 165, 12-26.	4.1	102
69	Nitrinergic neurons in the developing and adult human telencephalon: Transient and permanent patterns of expression in comparison to other mammals. Microscopy Research and Technique, 1999, 45, 401-419.	2.2	64
70	War victims in need of physical rehabilitation in Croatia. Scandinavian Journal of Public Health, 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. Journal of Comparative Neurology, 1997, 379, 482-494.	1.6	436
72	Laminar distribution of neuropeptide Y-immunoreactive neurons in human prefrontal cortex during development. , 1997, 379, 515-522.		47

#	Article	IF	Citations
73	Transient fetal structure, the gangliothalamic body, connects telencephalic germinal zone with all thalamic regions in the developing human brain. Journal of Comparative Neurology, 1997, 384, 373-395.	1.6	73
74	Transient fetal structure, the gangliothalamic body, connects telencephalic germinal zone with all thalamic regions in the developing human brain. Journal of Comparative Neurology, 1997, 384, 373-395.	1.6	19
75	Transient patterns of calbindin-D28k expression in the developing striatum of man. Neuroscience Letters, 1996, 220, 211-214.	2.1	15
76	Ontogenesis of goal-directed behavior: anatomo-functional considerations. International Journal of Psychophysiology, 1995, 19, 85-102.	1.0	113
77	Histochemical localization of nitric oxide synthase in the CNS. Trends in Neurosciences, 1994, 17, 105-106.	8.6	18
78	Early areal differentiation of the human cerebral cortex: Entorhinal area. Hippocampus, 1993, 3, 447-458.	1.9	54
79	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
80	Neuroscience in Yugoslavia. Trends in Neurosciences, 1991, 14, 171-175.	8.6	3
81	Attacks on Croatia's hospitals. Lancet, The, 1991, 338, 1018.	13.7	6
82	Prenatal and perinatal development of the somatostatin-immunoreactive neurons in the human prefrontal cortex. Neuroscience Letters, 1991, 124, 153-156.	2.1	33
83	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
84	Structural basis of the developmental plasticity in the human cerebral cortex: The role of the transient subplate zone. Metabolic Brain Disease, 1989, 4, 17-23.	2.9	83
85	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
86	Acetylcholinesterase in the human frontal associative cortex during the period of cognitive development: early laminar shifts and late innervation of pyramidal neurons. Neuroscience Letters, 1988, 90, 107-112.	2.1	57
87	Cytoarchitectonic Parameters of Developmental Capacity of the Human Associative Auditory Cortex during Postnatal Life. Acta Oto-Laryngologica, 1988, 105, 463-466.	0.9	15
88	Development of the lateral amygdaloid nucleus in the human fetus: transient presence of discrete cytoarchitectonic units. Anatomy and Embryology, 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. Journal of Comparative Neurology, 1983, 219, 431-447.	1.6	246
90	The Development of Medial Geniculate Body in Man: Changes in the Cholinesterase (CHE) Activity During Fetal and Perinatal Life. Acta Oto-Laryngologica, 1983, 95, 695-699.	0.9	2

#	Article	IF	Citations
91	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
92	The terminal distribution of accessory optic fibers in the rat. Brain Research, 1971, 31, 202-206.	2.2	37