

Stephen A Back

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4518122/publications.pdf>

Version: 2024-02-01

90
papers

10,540
citations

31976

53
h-index

54911

84
g-index

90
all docs

90
docs citations

90
times ranked

7841
citing authors

#	ARTICLE	IF	CITATIONS
1	The Vannucci Model of Hypoxic-Ischemic Injury in the Neonatal Rodent: 40 years Later. <i>Developmental Neuroscience</i> , 2022, 44, 186-193.	2.0	13
2	Association of cerebral microvascular dysfunction and white matter injury in Alzheimer's disease. <i>GeroScience</i> , 2022, 44, 1-14.	4.6	13
3	Dysregulation of Hyaluronan Homeostasis During White Matter Injury. <i>Neurochemical Research</i> , 2020, 45, 672-683.	3.3	15
4	A modified flavonoid accelerates oligodendrocyte maturation and functional remyelination. <i>Glia</i> , 2020, 68, 263-279.	4.9	10
5	Transient Hypoxemia Disrupts Anatomical and Functional Maturation of Preterm Fetal Ovine CA1 Pyramidal Neurons. <i>Journal of Neuroscience</i> , 2019, 39, 7853-7871.	3.6	17
6	Cortical Dysmaturation in Congenital Heart Disease. <i>Trends in Neurosciences</i> , 2019, 42, 192-204.	8.6	28
7	Vasodilator dysfunction and oligodendrocyte dysmaturation in aging white matter. <i>Annals of Neurology</i> , 2018, 83, 142-152.	5.3	25
8	Encephalopathy of Prematurity. , 2018, , 405-424.e8.		8
9	Brain Injury in the Preterm Infant. , 2018, , 879-896.e6.		2
10	A TLR/AKT/FoxO3 immune tolerance-like pathway disrupts the repair capacity of oligodendrocyte progenitors. <i>Journal of Clinical Investigation</i> , 2018, 128, 2025-2041.	8.2	38
11	White matter injury in the preterm infant: pathology and mechanisms. <i>Acta Neuropathologica</i> , 2017, 134, 331-349.	7.7	301
12	Translational Stroke Research. <i>Stroke</i> , 2017, 48, 2632-2637.	2.0	108
13	Comment on: PH20 is not expressed in murine CNS and oligodendrocyte precursor cells. <i>Annals of Clinical and Translational Neurology</i> , 2017, 4, 608-609.	3.7	2
14	Transient Hypoxemia Chronically Disrupts Maturation of Preterm Fetal Ovine Subplate Neuron Arborization and Activity. <i>Journal of Neuroscience</i> , 2017, 37, 11912-11929.	3.6	55
15	Pathophysiology of Neonatal White Matter Injury. , 2017, , 1695-1703.e4.		1
16	Unbiased Stereological Analysis of Reactive Astroglia to Estimate Age-Associated Cerebral White Matter Injury. <i>Journal of Neuropathology and Experimental Neurology</i> , 2016, 75, 539-554.	1.7	16
17	Controversies in preterm brain injury. <i>Neurobiology of Disease</i> , 2016, 92, 90-101.	4.4	57
18	Prenatal Determinants of Brain Development: Recent Studies and Methodological Advances. <i>Neuromethods</i> , 2016, , 303-326.	0.3	0

#	ARTICLE	IF	CITATIONS
19	Hyaluronan Synthesis, Catabolism, and Signaling in Neurodegenerative Diseases. <i>International Journal of Cell Biology</i> , 2015, 2015, 1-10.	2.5	58
20	Disease specific therapies in leukodystrophies and leukoencephalopathies. <i>Molecular Genetics and Metabolism</i> , 2015, 114, 527-536.	1.1	45
21	Brain Injury in the Preterm Infant: New Horizons for Pathogenesis and Prevention. <i>Pediatric Neurology</i> , 2015, 53, 185-192.	2.1	85
22	The Sheep as a Model of Brain Injury in the Premature Infant. <i>NeuroMethods</i> , 2015, , 107-128.	0.3	2
23	Role of Recurrent Hypoxia-Ischemia in Preterm White Matter Injury Severity. <i>PLoS ONE</i> , 2014, 9, e112800.	2.5	32
24	Unmyelinated axon loss with postnatal hypertonia after fetal hypoxia. <i>Annals of Neurology</i> , 2014, 75, 533-541.	5.3	26
25	Prenatal cerebral ischemia triggers dysmaturation of caudate projection neurons. <i>Annals of Neurology</i> , 2014, 75, 508-524.	5.3	63
26	Pathophysiology of glia in perinatal white matter injury. <i>Glia</i> , 2014, 62, 1790-1815.	4.9	169
27	What brakes the preterm brain? An arresting story. <i>Pediatric Research</i> , 2014, 75, 227-233.	2.3	52
28	Advances in Neonatal Neurology. <i>Clinics in Perinatology</i> , 2014, 41, xvii-xix.	2.1	2
29	Cerebral White and Gray Matter Injury in Newborns. <i>Clinics in Perinatology</i> , 2014, 41, 1-24.	2.1	81
30	Brain injury in premature neonates: A primary cerebral dysmaturation disorder?. <i>Annals of Neurology</i> , 2014, 75, 469-486.	5.3	273
31	Isoflurane-induced Apoptosis of Neurons and Oligodendrocytes in the Fetal Rhesus Macaque Brain. <i>Anesthesiology</i> , 2014, 120, 626-638.	2.5	195
32	Digestion products of the PH20 hyaluronidase inhibit remyelination. <i>Annals of Neurology</i> , 2013, 73, 266-280.	5.3	94
33	Prenatal Cerebral Ischemia Disrupts MRI-Defined Cortical Microstructure Through Disturbances in Neuronal Arborization. <i>Science Translational Medicine</i> , 2013, 5, 168ra7.	12.4	149
34	Hemodynamic and Metabolic Correlates of Perinatal White Matter Injury Severity. <i>PLoS ONE</i> , 2013, 8, e82940.	2.5	14
35	Differential Susceptibility to Axonopathy in Necrotic and Non-Necrotic Perinatal White Matter Injury. <i>Stroke</i> , 2012, 43, 178-184.	2.0	61
36	Isoflurane-induced apoptosis of oligodendrocytes in the neonatal primate brain. <i>Annals of Neurology</i> , 2012, 72, 525-535.	5.3	234

#	ARTICLE	IF	CITATIONS
37	Central axons preparing to myelinate are highly sensitivity to ischemic injury. <i>Annals of Neurology</i> , 2012, 72, 936-951.	5.3	39
38	Astrocytes in aged nonhuman primate brain gray matter synthesize excess hyaluronan. <i>Neurobiology of Aging</i> , 2012, 33, 830.e13-830.e24.	3.1	61
39	Human Neural Stem Cells Induce Functional Myelination in Mice with Severe Dysmyelination. <i>Science Translational Medicine</i> , 2012, 4, 155ra136.	12.4	111
40	Developmental Physiology of the Central Nervous System. , 2012, , 811-815.		2
41	Cell therapy for neonatal hypoxia-ischemia and cerebral palsy. <i>Annals of Neurology</i> , 2012, 71, 589-600.	5.3	153
42	The Instrumented Fetal Sheep as a Model of Cerebral White Matter Injury in the Premature Infant. <i>Neurotherapeutics</i> , 2012, 9, 359-370.	4.4	141
43	Which Neuroprotective Agents are Ready for Bench to Bedside Translation in the Newborn Infant?. <i>Journal of Pediatrics</i> , 2012, 160, 544-552.e4.	1.8	147
44	Arrested preoligodendrocyte maturation contributes to myelination failure in premature infants. <i>Annals of Neurology</i> , 2012, 71, 93-109.	5.3	368
45	An organotypic slice culture model of chronic white matter injury with maturation arrest of oligodendrocyte progenitors. <i>Molecular Neurodegeneration</i> , 2011, 6, 46.	10.8	27
46	Diffusion characteristics associated with neuronal injury and glial activation following hypoxia-ischemia in the immature brain. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 839-845.	3.0	31
47	White matter lesions defined by diffusion tensor imaging in older adults. <i>Annals of Neurology</i> , 2011, 70, 465-476.	5.3	104
48	Histopathological correlates of magnetic resonance imaging-defined chronic perinatal white matter injury. <i>Annals of Neurology</i> , 2011, 70, 493-507.	5.3	117
49	Golgi: A Biography of the Founder of Modern Neuroscience. <i>Archives of Neurology</i> , 2011, 68, 538.	4.5	0
50	Strain-Specific Differences in Perinatal Rodent Oligodendrocyte Lineage Progression and Its Correlation with Human. <i>Developmental Neuroscience</i> , 2011, 33, 251-260.	2.0	80
51	Timing of Appearance of Late Oligodendrocyte Progenitors Coincides with Enhanced Susceptibility of Preterm Rabbit Cerebral White Matter to Hypoxia-Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 1053-1065.	4.3	87
52	Towards improved animal models of neonatal white matter injury associated with cerebral palsy. <i>DMM Disease Models and Mechanisms</i> , 2010, 3, 678-688.	2.4	106
53	Arrested oligodendrocyte lineage maturation in chronic perinatal white matter injury. <i>Annals of Neurology</i> , 2008, 63, 520-530.	5.3	292
54	Cerebral Blood Flow Heterogeneity in Preterm Sheep: Lack of Physiologic Support for Vascular Boundary Zones in Fetal Cerebral White Matter. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 995-1008.	4.3	54

#	ARTICLE	IF	CITATIONS
55	A α -GAG TM reflex prevents repair of the damaged CNS. Trends in Neurosciences, 2008, 31, 44-52.	8.6	100
56	Maturation-Dependent Vulnerability of Perinatal White Matter in Premature Birth. Stroke, 2007, 38, 724-730.	2.0	310
57	Hypoxia-Ischemia Preferentially Triggers Glutamate Depletion from Oligodendroglia and Axons in Perinatal Cerebral White Matter. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 334-347.	4.3	94
58	Large-scale generation of highly enriched neural stem-cell-derived oligodendroglial cultures: maturation-dependent differences in insulin-like growth factor-mediated signal transduction. Journal of Neurochemistry, 2007, 100, 628-638.	3.9	29
59	Perinatal white matter injury: The changing spectrum of pathology and emerging insights into pathogenetic mechanisms. Mental Retardation and Developmental Disabilities Research Reviews, 2006, 12, 129-140.	3.6	279
60	Protective effects of caffeine on chronic hypoxia-induced perinatal white matter injury. Annals of Neurology, 2006, 60, 696-705.	5.3	173
61	Topical Review: Role of Instrumented Fetal Sheep Preparations in Defining the Pathogenesis of Human Periventricular White-Matter Injury. Journal of Child Neurology, 2006, 21, 582-589.	1.4	103
62	Spatial Heterogeneity in Oligodendrocyte Lineage Maturation and Not Cerebral Blood Flow Predicts Fetal Ovine Periventricular White Matter Injury. Journal of Neuroscience, 2006, 26, 3045-3055.	3.6	170
63	Hyaluronan accumulates in demyelinated lesions and inhibits oligodendrocyte progenitor maturation. Nature Medicine, 2005, 11, 966-972.	30.7	529
64	Selective vulnerability of preterm white matter to oxidative damage defined by F ₂ -isoprostanes. Annals of Neurology, 2005, 58, 108-120.	5.3	216
65	Developmental Changes in Diffusion Anisotropy Coincide with Immature Oligodendrocyte Progression and Maturation of Compound Action Potential. Journal of Neuroscience, 2005, 25, 5988-5997.	3.6	181
66	Preterm Fetal Hypoxia-Ischemia Causes Hypertonia and Motor Deficits in the Neonatal Rabbit: A Model for Human Cerebral Palsy?. Journal of Neuroscience, 2004, 24, 24-34.	3.6	198
67	Emerging concepts in periventricular white matter injury. Seminars in Perinatology, 2004, 28, 405-414.	2.5	170
68	CD44 expression identifies astrocyte-restricted precursor cells. Developmental Biology, 2004, 276, 31-46.	2.0	193
69	Mature myelin basic protein-expressing oligodendrocytes are insensitive to kainate toxicity. Journal of Neuroscience Research, 2003, 71, 237-245.	2.9	130
70	Quantitative analysis of perinatal rodent oligodendrocyte lineage progression and its correlation with human. Experimental Neurology, 2003, 181, 231-240.	4.1	250
71	Arrested Oligodendrocyte Lineage Progression During Human Cerebral White Matter Development: Dissociation Between the Timing of Progenitor Differentiation and Myelinogenesis. Journal of Neuropathology and Experimental Neurology, 2002, 61, 197-211.	1.7	175
72	Selective Vulnerability of Late Oligodendrocyte Progenitors to Hypoxia-Ischemia. Journal of Neuroscience, 2002, 22, 455-463.	3.6	706

#	ARTICLE	IF	CITATIONS
73	Volumetric Brain Differences in Children with Periventricular T2-Signal Hyperintensities. American Journal of Roentgenology, 2001, 177, 695-702.	2.2	28
74	Late Oligodendrocyte Progenitors Coincide with the Developmental Window of Vulnerability for Human Perinatal White Matter Injury. Journal of Neuroscience, 2001, 21, 1302-1312.	3.6	855
75	Recent advances in human perinatal white matter injury. Progress in Brain Research, 2001, 132, 131-147.	1.4	30
76	BDNF Blocks Caspase-3 Activation in Neonatal Hypoxia-Ischemia. Neurobiology of Disease, 2000, 7, 38-53.	4.4	251
77	A new Alamar Blue viability assay to rapidly quantify oligodendrocyte death. Journal of Neuroscience Methods, 1999, 91, 47-54.	2.5	75
78	Intracellular Redox State Determines Whether Nitric Oxide Is Toxic or Protective to Rat Oligodendrocytes in Culture. Journal of Neurochemistry, 1999, 73, 476-484.	3.9	76
79	Human oligodendroglial development: Relationship to periventricular leukomalacia. Seminars in Pediatric Neurology, 1998, 5, 180-189.	2.0	162
80	Maturation-Dependent Vulnerability of Oligodendrocytes to Oxidative Stress-Induced Death Caused by Glutathione Depletion. Journal of Neuroscience, 1998, 18, 6241-6253.	3.6	544
81	Cellular and molecular pathogenesis of periventricular white matter injury. Mental Retardation and Developmental Disabilities Research Reviews, 1997, 3, 96-107.	3.6	64
82	Cystine Deprivation Induces Oligodendroglial Death: Rescue by Free Radical Scavengers and by a Diffusible Glial Factor. Journal of Neurochemistry, 1996, 67, 566-573.	3.9	114
83	Differential response of neutral endopeptidase 24.11 (enkephalinase?), and cholinergic and opioidergic markers to hypoglossal axotomy. Journal of Comparative Neurology, 1994, 340, 149-160.	1.6	8
84	Ventral mesencephalic and cortical transplants into the rat striatum display enhanced activity for neutral endopeptidase 24.11 (enkephalinase; CALLA). Brain Research, 1993, 612, 85-95.	2.2	2
85	Differential isoform profiles of Î±2-macroglobulin from plasma of patients with chronic-progressive or relapsing-remitting multiple sclerosis. Clinica Chimica Acta, 1992, 211, 27-36.	1.1	18
86	Fluorescent histochemical localization of neutral endopeptidase-24.11 (enkephalinase) in the rat brainstem. Journal of Comparative Neurology, 1990, 296, 130-158.	1.6	17
87	Fluorescent histochemical localization of neutral endopeptidase-24.11 (enkephalinase) in the rat spinal cord. Journal of Comparative Neurology, 1989, 280, 436-450.	1.6	15
88	Altered isoelectric focusing of Î±2-macroglobulin from plasma of patients with diabetes mellitus. Clinica Chimica Acta, 1985, 150, 21-29.	1.1	2
89	Differential isoelectric focusing properties of crude and purified human Î±2-macroglobulin and Î±2-macroglobulin-proteinase complexes. Biomedical Applications, 1983, 278, 43-51.	1.7	7
90	Characterization of Î±2-macroglobulin from plasma of cystic fibrosis patients and controls. Biochemical Medicine, 1983, 30, 34-42.	0.5	2