Laszlo Vutskits

List of Publications by Year
in descending order

70	2,870	218592	175177
papers	citations	26 h-index	52 g-index

92	92	92	2849
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lasting impact of general anaesthesia on the brain: mechanisms and relevance. Nature Reviews Neuroscience, 2016, 17, 705-717.	4.9	371
2	Volatile Anesthetics Rapidly Increase Dendritic Spine Density in the Rat Medial Prefrontal Cortex during Synaptogenesis. Anesthesiology, 2010, 112, 546-556.	1.3	221
3	Developmental Stage-dependent Persistent Impact of Propofol Anesthesia on Dendritic Spines in the Rat Medial Prefrontal Cortex. Anesthesiology, 2011, 115, 282-293.	1.3	209
4	A variant of <scp>KCC</scp> 2 from patients with febrile seizures impairs neuronal Cl ^{â˜’} extrusion and dendritic spine formation. EMBO Reports, 2014, 15, 723-729.	2.0	163
5	Anesthetics Rapidly Promote Synaptogenesis during a Critical Period of Brain Development. PLoS ONE, 2009, 4, e7043.	1.1	151
6	Adverse Effects of Methylene Blue on the Central Nervous System. Anesthesiology, 2008, 108, 684-692.	1.3	144
7	Clinically Relevant Concentrations of Propofol but Not Midazolam Alter In VitroÂ Dendritic Development of Isolated Î³-Aminobutyric Acid-positive Interneurons. Anesthesiology, 2005, 102, 970-976.	1.3	109
8	Safe Anesthesia For Every Tot â€“ The SAFETOTS initiative. Current Opinion in Anaesthesiology, 2015, 28, 302-307.	0.9	101
9	An Ion Transport-Independent Role for the Cation-Chloride Cotransporter KCC2 in Dendritic Spinogenesis In Vivo. Cerebral Cortex, 2013, 23, 378-388.	1.6	98
10	Effect of Ketamine on Dendritic Arbor Development and Survival of Immature GABAergic Neurons In Vitro. Toxicological Sciences, 2006, 91, 540-549.	1.4	94
11	Update on developmental anesthesia neurotoxicity. Current Opinion in Anaesthesiology, 2017, 30, 337-342.	0.9	84
12	Morbidity and mortality after anaesthesia in early life: results of the European prospective multicentre observational study, neonate and children audit of anaesthesia practice in Europe (NECTARINE). British Journal of Anaesthesia, 2021, 126, 1157-1172.	1.5	81
13	Anesthesia and the developing brain: A way forward for laboratory and clinical research. Paediatric Anaesthesia, 2018, 28, 758-763.	0.6	77
14	Cerebral blood flow in the neonate. Paediatric Anaesthesia, 2014, 24, 22-29.	0.6	65
15	Low concentrations of ketamine initiate dendritic atrophy of differentiated GABAergic neurons in culture. Toxicology, 2007, 234, 216-226.	2.0	57
16	Acute and Long-Term Effects of Brief Sevoflurane Anesthesia During the Early Postnatal Period in Rats. Toxicological Sciences, 2016, 149, 121-133.	1.4	55
17	GAS, PANDA, and MASK. Anesthesiology, 2019, 131, 762-764.	1.3	54
18	General Anesthesia. Anesthesia and Analgesia, 2012, 115, 1174-1182.	1.1	52

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19	Early Exposure to Volatile Anesthetics Impairs Long-Term Associative Learning and Recognition Memory. PLoS ONE, 2014, 9, e105340.	1.1	47
20	Anesthetics and the developing brain: time for a change in practice? A pro/con debate. Paediatric Anaesthesia, 2012, 22, 973-980.	0.6	45
21	Perspectives on Dexmedetomidine Use for Neurosurgical Patients. Journal of Neurosurgical Anesthesiology, 2019, 31, 366-377.	0.6	39
22	The Polysialylated Neural Cell Adhesion Molecule Promotes Neurogenesis in vitro. Neurochemical Research, 2006, 31, 215-225.	1.6	35
23	When the Safe Alternative Is Not That Safe: Tramadol Prescribing in Children. Frontiers in Pharmacology, 2018, 9, 148.	1.6	34
24	An open label pilot study of a dexmedetomidineâ€remifentanilâ€caudal anesthetic for infant lower abdominal/lower extremity surgery: The T REX pilot study. Paediatric Anaesthesia, 2019, 29, 59-67.	0.6	33
25	Efficacy and Safety of a Rapid Intravenous Injection of Ketamine 0.5 mg/kg in Treatment-Resistant Major Depression. Journal of Clinical Psychopharmacology, 2018, 38, 590-597.	0.7	32
26	Bilateral whisker trimming during early postnatal life impairs dendritic spine development in the mouse somatosensory barrel cortex. Journal of Comparative Neurology, 2010, 518, 1711-1723.	0.9	29
27	Standards for preclinical research and publications in developmental anaesthetic neurotoxicity: expert opinion statement from the SmartTots preclinical working group. British Journal of Anaesthesia, 2020, 124, 585-593.	1.5	26
28	Anesthetic-Related Neurotoxicity and the Developing Brain. Paediatric Drugs, 2012, 14, 13-21.	1.3	23
29	Effects of Morphine on the Differentiation and Survival of Developing Pyramidal Neurons During the Brain Growth Spurt. Toxicological Sciences, 2012, 130, 168-179.	1.4	21
30	K-Cl Cotransporter 2â€“mediated Clâ˜ Extrusion Determines Developmental Stageâ€“dependent Impact of Propofol Anesthesia on Dendritic Spines. Anesthesiology, 2017, 126, 855-867.	1.3	21
31	Impact of propofol anaesthesia on cytokine expression profiles in the developing rat brain. European Journal of Anaesthesiology, 2015, 32, 336-345.	0.7	20
32	A systematic review of outcomes reported in pediatric perioperative research: A report from the Pediatric Perioperative Outcomes Group. Paediatric Anaesthesia, 2020, 30, 1166-1182.	0.6	20
33	The new <scp>FDA</scp> drug safety communication on the use of general anesthetics in young children: what should we make of it?. Paediatric Anaesthesia, 2017, 27, 336-337.	0.6	19
34	Pediatric perioperative outcomes group: Defining core outcomes for pediatric anesthesia and perioperative medicine. Paediatric Anaesthesia, 2018, 28, 314-315.	0.6	18
35	Plasma Concentrations of Brain-derived Neurotrophic Factor in Patients Undergoing Minor Surgery: A Randomized Controlled Trial. Neurochemical Research, 2008, 33, 1325-1331.	1.6	16
36	General Anesthetics to Treat Major Depressive Disorder: Clinical Relevance and Underlying Mechanisms. Anesthesia and Analgesia, 2018, 126, 208-216.	1.1	15

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37	Loss of nonâ€canonical KCC 2 functions promotes developmental apoptosis of cortical projection neurons. EMBO Reports, 2020, 21, e48880.	2.0	15
38	Development of inhibitory synaptic inputs on layer 2/3 pyramidal neurons in the rat medial prefrontal cortex. Brain Structure and Function, 2018, 223, 1999-2012.	1.2	14
39	Isoelectric Electroencephalography in Infants and Toddlers during Anesthesia for Surgery: An International Observational Study. Anesthesiology, 2022, 137, 187-200.	1.3	13
40	Developmental stageâ€dependent impact of midazolam on calbindin, calretinin and parvalbumin expression in the immature rat medial prefrontal cortex during the brain growth spurt. International Journal of Developmental Neuroscience, 2015, 45, 19-28.	0.7	11
41	Systemic physiology and neuroapoptotic profiles in young and adult rats exposed to surgery: A randomized controlled study comprising four different anaesthetic techniques. International Journal of Developmental Neuroscience, 2015, 45, 11-18.	0.7	11
42	What lessons for clinical practice can be learned from systematic reviews of animal studies? The case of anesthetic neurotoxicity. Paediatric Anaesthesia, 2016, 26, 4-5.	0.6	11
43	Reporting Laboratory and Animal Research in A<scp>nesthesiology</scp>. Anesthesiology, 2019, 131, 949-952.	1.3	11
44	Staying away from the edge â€“ cerebral oximetry guiding blood pressure management. Paediatric Anaesthesia, 2015, 25, 654-655.	0.6	10
45	Perioperative Hypotension in Infants: Insights From the GAS Study. Anesthesia and Analgesia, 2017, 125, 719-720.	1.1	10
46	An approach to using pharmacokinetics and electroencephalography for propofol anesthesia for surgery in infants. Paediatric Anaesthesia, 2020, 30, 1299-1307.	0.6	9
47	Anesthesia management in a young child with aromatic l-amino acid decarboxylase deficiency. Paediatric Anaesthesia, 2006, 16, 82-84.	0.6	8
48	More Than Anyone Else. Anesthesiology, 2016, 124, 758-760.	1.3	7
49	Transient Deregulation of Canonical Wnt Signaling in Developing Pyramidal Neurons Leads to Dendritic Defects and Impaired Behavior. Cell Reports, 2019, 27, 1487-1502.e6.	2.9	7
50	Statistical Analysis Plan for â€œAn international multicenter study of isoelectric electroencephalography events in infants and young children during anesthesia for surgeryâ€• Paediatric Anaesthesia, 2019, 29, 243-249.	0.6	7
51	Pediatric perioperative outcomes: Protocol for a systematic literature review and identification of a core outcome set for infants, children, and young people requiring anesthesia and surgery. Paediatric Anaesthesia, 2020, 30, 392-400.	0.6	7
52	Perioperative critical events and morbidity associated with anesthesia in early life: Subgroup analysis of United Kingdom participation in the NEonate and Children audiT of Anaesthesia pRactice IN Europe (<scp>NECTARINE</scp>) prospective multicenter observational study. Paediatric Anaesthesia, 2022, 32, 801-814.	0.6	7
53	Pushing the Standards Forward. Anesthesia and Analgesia, 2014, 119, 1029-1031.	1.1	5
54	Carbonic anhydrase seven bundles filamentous actin and regulates dendritic spine morphology and density. EMBO Reports, 2021, 22, e50145.	2.0	5

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55	Effects of ketamine on the developing central nervous system. Ideggyogyaszati Szemle, 2007, 60, 109-12.	0.4	5
56	General anesthetics in brain injury: friends or foes?. Current Pharmaceutical Design, 2014, 20, 4203-10.	0.9	5
57	Noninvasive cardiac output monitoring during anaesthesia and surgery in young children using electrical cardiometry: an observational study. British Journal of Anaesthesia, 2022, 128, e235-e238.	1.5	3
58	Use of Therapeutic Surfactant Lavage in a Preterm Infant with Massive Pulmonary Hemorrhage. Clinics and Practice, 2012, 2, 184-186.	0.6	2
59	Fluid Fasting in Children. Anesthesiology, 2020, 133, 493-494.	1.3	2
60	Imaging the Progression of Anesthetic-induced Neurotoxicity. Anesthesiology, 2015, 123, 497-498.	1.3	1
61	Targeting Microglia. Anesthesiology, 2018, 129, 232-234.	1.3	1
62	Anaesthesia, neural activity, and brain development: interneurones in the spotlight. British Journal of Anaesthesia, 2021, 126, 1084-1085.	1.5	1
63	GAS, PANDA, and MASK: Reply. Anesthesiology, 2020, 132, 1589-1590.	1.3	1
64	Nearâ€infrared spectroscopy: More than just monitoring brain oxygenation. Paediatric Anaesthesia, 2022, 32, 394-395.	0.6	1
65	Reply to Hooijmans, Carlijn; Wever, Kimberley; Ritskesâ€Hoitinga, Merel; Scheffer, Gert Jan, regarding their comment â€˜The usefulness of systematic reviews of animal studies; shooting the messengerâ€™. Paediatric Anaesthesia, 2016, 26, 853-854.	0.6	0
66	SmartTots. Anesthesia and Analgesia, 2018, 126, 1124-1126.	1.1	0
67	Apoptosis and Neurocognitive Effects of Intravenous Anesthetics. , 2021, , 657-664.		0
68	General Anesthesia and Progression of Parkinson Disease: A Shaky Association. Anesthesia and Analgesia, 2021, 133, 1138-1139.	1.1	0
69	Apoptosis and Neurocognitive Effects of IV Anesthetics. , 2017, , 797-803.		0
70	Response to letter from LÃ¶nnqvist et al. on our recent Editorial â€œNear Infrared Spectroscopy: More Than Just Monitoring Brain Oxygenationâ€• Paediatric Anaesthesia, 2022, 32, 688-688.	0.6	0