

# Laszlo Vutskits

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

2,870  
citations

218677

26  
h-index

175258

52  
g-index

92  
all docs

92  
docs citations

92  
times ranked

2849  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lasting impact of general anaesthesia on the brain: mechanisms and relevance. <i>Nature Reviews Neuroscience</i> , 2016, 17, 705-717.	10.2	371
2	Volatile Anesthetics Rapidly Increase Dendritic Spine Density in the Rat Medial Prefrontal Cortex during Synaptogenesis. <i>Anesthesiology</i> , 2010, 112, 546-556.	2.5	221
3	Developmental Stage-dependent Persistent Impact of Propofol Anesthesia on Dendritic Spines in the Rat Medial Prefrontal Cortex. <i>Anesthesiology</i> , 2011, 115, 282-293.	2.5	209
4	A variant of <i>KCC2</i> from patients with febrile seizures impairs neuronal Cl <sup>-</sup> extrusion and dendritic spine formation. <i>EMBO Reports</i> , 2014, 15, 723-729.	4.5	163
5	Anesthetics Rapidly Promote Synaptogenesis during a Critical Period of Brain Development. <i>PLoS ONE</i> , 2009, 4, e7043.	2.5	151
6	Adverse Effects of Methylene Blue on the Central Nervous System. <i>Anesthesiology</i> , 2008, 108, 684-692.	2.5	144
7	Clinically Relevant Concentrations of Propofol but Not Midazolam Alter <i>In Vitro</i> Dendritic Development of Isolated $\gamma$ -Aminobutyric Acid-positive Interneurons. <i>Anesthesiology</i> , 2005, 102, 970-976.	2.5	109
8	Safe Anesthesia For Every Tot – The SAFETOTS initiative. <i>Current Opinion in Anaesthesiology</i> , 2015, 28, 302-307.	2.0	101
9	An Ion Transport-Independent Role for the Cation-Chloride Cotransporter KCC2 in Dendritic Spinogenesis <i>In Vivo</i> . <i>Cerebral Cortex</i> , 2013, 23, 378-388.	2.9	98
10	Effect of Ketamine on Dendritic Arbor Development and Survival of Immature GABAergic Neurons <i>In Vitro</i> . <i>Toxicological Sciences</i> , 2006, 91, 540-549.	3.1	94
11	Update on developmental anesthesia neurotoxicity. <i>Current Opinion in Anaesthesiology</i> , 2017, 30, 337-342.	2.0	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). <i>British Journal of Anaesthesia</i> , 2021, 126, 1157-1172.	3.4	81
13	Anesthesia and the developing brain: A way forward for laboratory and clinical research. <i>Paediatric Anaesthesia</i> , 2018, 28, 758-763.	1.1	77
14	Cerebral blood flow in the neonate. <i>Paediatric Anaesthesia</i> , 2014, 24, 22-29.	1.1	65
15	Low concentrations of ketamine initiate dendritic atrophy of differentiated GABAergic neurons in culture. <i>Toxicology</i> , 2007, 234, 216-226.	4.2	57
16	Acute and Long-Term Effects of Brief Sevoflurane Anesthesia During the Early Postnatal Period in Rats. <i>Toxicological Sciences</i> , 2016, 149, 121-133.	3.1	55
17	GAS, PANDA, and MASK. <i>Anesthesiology</i> , 2019, 131, 762-764.	2.5	54
18	General Anesthesia. <i>Anesthesia and Analgesia</i> , 2012, 115, 1174-1182.	2.2	52

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19	Early Exposure to Volatile Anesthetics Impairs Long-Term Associative Learning and Recognition Memory. PLoS ONE, 2014, 9, e105340.	2.5	47
20	Anesthetics and the developing brain: time for a change in practice? A pro/con debate. Paediatric Anaesthesia, 2012, 22, 973-980.	1.1	45
21	Perspectives on Dexmedetomidine Use for Neurosurgical Patients. Journal of Neurosurgical Anesthesiology, 2019, 31, 366-377.	1.2	39
22	The Polysialylated Neural Cell Adhesion Molecule Promotes Neurogenesis in vitro. Neurochemical Research, 2006, 31, 215-225.	3.3	35
23	When the Safe Alternative Is Not That Safe: Tramadol Prescribing in Children. Frontiers in Pharmacology, 2018, 9, 148.	3.5	34
24	An open label pilot study of a dexmedetomidine+remifentanyl+caudal anesthetic for infant lower abdominal/lower extremity surgery: The T REX pilot study. Paediatric Anaesthesia, 2019, 29, 59-67.	1.1	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.	1.4	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.	1.6	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.	3.4	26
28	Anesthetic-Related Neurotoxicity and the Developing Brain. Paediatric Drugs, 2012, 14, 13-21.	3.1	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.	3.1	21
30	K-Cl Cotransporter 2-mediated Cl <sup>-</sup> Extrusion Determines Developmental Stage-dependent Impact of Propofol Anesthesia on Dendritic Spines. Anesthesiology, 2017, 126, 855-867.	2.5	21
31	Impact of propofol anaesthesia on cytokine expression profiles in the developing rat brain. European Journal of Anaesthesiology, 2015, 32, 336-345.	1.7	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.	1.1	20
33	The new FDA drug safety communication on the use of general anesthetics in young children: what should we make of it?. Paediatric Anaesthesia, 2017, 27, 336-337.	1.1	19
34	Pediatric perioperative outcomes group: Defining core outcomes for pediatric anesthesia and perioperative medicine. Paediatric Anaesthesia, 2018, 28, 314-315.	1.1	18
35	Plasma Concentrations of Brain-derived Neurotrophic Factor in Patients Undergoing Minor Surgery: A Randomized Controlled Trial. Neurochemical Research, 2008, 33, 1325-1331.	3.3	16
36	General Anesthetics to Treat Major Depressive Disorder: Clinical Relevance and Underlying Mechanisms. Anesthesia and Analgesia, 2018, 126, 208-216.	2.2	15

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37	Loss of non-canonical KCC 2 functions promotes developmental apoptosis of cortical projection neurons. <i>EMBO Reports</i> , 2020, 21, e48880.	4.5	15
38	Development of inhibitory synaptic inputs on layer 2/3 pyramidal neurons in the rat medial prefrontal cortex. <i>Brain Structure and Function</i> , 2018, 223, 1999-2012.	2.3	14
39	Isoelectric Electroencephalography in Infants and Toddlers during Anesthesia for Surgery: An International Observational Study. <i>Anesthesiology</i> , 2022, 137, 187-200.	2.5	13
40	Developmental stage-dependent impact of midazolam on calbindin, calretinin and parvalbumin expression in the immature rat medial prefrontal cortex during the brain growth spurt. <i>International Journal of Developmental Neuroscience</i> , 2015, 45, 19-28.	1.6	11
41	Systemic physiology and neuroapoptotic profiles in young and adult rats exposed to surgery: A randomized controlled study comprising four different anaesthetic techniques. <i>International Journal of Developmental Neuroscience</i> , 2015, 45, 11-18.	1.6	11
42	What lessons for clinical practice can be learned from systematic reviews of animal studies? The case of anesthetic neurotoxicity. <i>Paediatric Anaesthesia</i> , 2016, 26, 4-5.	1.1	11
43	Reporting Laboratory and Animal Research in <i>Anesthesiology</i> . <i>Anesthesiology</i> , 2019, 131, 949-952.	2.5	11
44	Staying away from the edge – cerebral oximetry guiding blood pressure management. <i>Paediatric Anaesthesia</i> , 2015, 25, 654-655.	1.1	10
45	Perioperative Hypotension in Infants: Insights From the GAS Study. <i>Anesthesia and Analgesia</i> , 2017, 125, 719-720.	2.2	10
46	An approach to using pharmacokinetics and electroencephalography for propofol anesthesia for surgery in infants. <i>Paediatric Anaesthesia</i> , 2020, 30, 1299-1307.	1.1	9
47	Anesthesia management in a young child with aromatic l-amino acid decarboxylase deficiency. <i>Paediatric Anaesthesia</i> , 2006, 16, 82-84.	1.1	8
48	More Than Anyone Else. <i>Anesthesiology</i> , 2016, 124, 758-760.	2.5	7
49	Transient Deregulation of Canonical Wnt Signaling in Developing Pyramidal Neurons Leads to Dendritic Defects and Impaired Behavior. <i>Cell Reports</i> , 2019, 27, 1487-1502.e6.	6.4	7
50	Statistical Analysis Plan for ‘An international multicenter study of isoelectric electroencephalography events in infants and young children during anesthesia for surgery’ <i>Paediatric Anaesthesia</i> , 2019, 29, 243-249.	1.1	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. <i>Paediatric Anaesthesia</i> , 2020, 30, 392-400.	1.1	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 (NECTARINE) prospective multicenter observational study. <i>Paediatric Anaesthesia</i> , 2022, 32, 801-814.	1.1	7
53	Pushing the Standards Forward. <i>Anesthesia and Analgesia</i> , 2014, 119, 1029-1031.	2.2	5
54	Carbonic anhydrase seven bundles filamentous actin and regulates dendritic spine morphology and density. <i>EMBO Reports</i> , 2021, 22, e50145.	4.5	5

#	ARTICLE	IF	CITATIONS
55	Effects of ketamine on the developing central nervous system. Ideggyogyaszati Szemle, 2007, 60, 109-12.	0.7	5
56	General anesthetics in brain injury: friends or foes?. Current Pharmaceutical Design, 2014, 20, 4203-10.	1.9	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.	3.4	3
58	Use of Therapeutic Surfactant Lavage in a Preterm Infant with Massive Pulmonary Hemorrhage. Clinics and Practice, 2012, 2, 184-186.	1.4	2
59	Fluid Fasting in Children. Anesthesiology, 2020, 133, 493-494.	2.5	2
60	Imaging the Progression of Anesthetic-induced Neurotoxicity. Anesthesiology, 2015, 123, 497-498.	2.5	1
61	Targeting Microglia. Anesthesiology, 2018, 129, 232-234.	2.5	1
62	Anaesthesia, neural activity, and brain development: interneurons in the spotlight. British Journal of Anaesthesia, 2021, 126, 1084-1085.	3.4	1
63	GAS, PANDA, and MASK: Reply. Anesthesiology, 2020, 132, 1589-1590.	2.5	1
64	Near-Infrared spectroscopy: More than just monitoring brain oxygenation. Paediatric Anaesthesia, 2022, 32, 394-395.	1.1	1
65	Reply to Hooijmans, Carlijn; Wever, Kimberley; Ritskes-deHoitinga, Merel; Scheffer, Gert Jan, regarding their comment "The usefulness of systematic reviews of animal studies; shooting the messenger". Paediatric Anaesthesia, 2016, 26, 853-854.	1.1	0
66	SmartTots. Anesthesia and Analgesia, 2018, 126, 1124-1126.	2.2	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.	2.2	0
69	Apoptosis and Neurocognitive Effects of IV Anesthetics. , 2017, , 797-803.		0
70	Response to letter from Linnqvist et al. on our recent Editorial "Near Infrared Spectroscopy: More Than Just Monitoring Brain Oxygenation". Paediatric Anaesthesia, 2022, 32, 688-688.	1.1	0