Robert S B Clark

List of Publications by Year
in descending order

103 papers	9,764 citations	76326 40 h-index	36028 97 g-index
108 all docs	108 docs citations	108 times ranked	16071 citing authors

#	Article	IF	Citations
1	Association between pediatric TBI mortality and median family income in the United States: A retrospective cohort study. The Lancet Regional Health Americas, 2022, 5, 100164.	2.6	5
2	Assessment of Dynamic Intracranial Compliance in Children with Severe Traumatic Brain Injury: Proof-of-Concept. Neurocritical Care, 2021, 34, 209-217.	2.4	6
3	Blood Biomarkers for Detection of Brain Injury in COVID-19 Patients. Journal of Neurotrauma, 2021, 38, 1-43.	3.4	68
4	Trends in US Pediatric Hospital Admissions in 2020 Compared With the Decade Before the COVID-19 Pandemic. JAMA Network Open, 2021, 4, e2037227.	5.9	128
5	Ascorbate deficiency confers resistance to hippocampal neurodegeneration after asphyxial cardiac arrest in juvenile rats. Pediatric Research, 2021, , .	2.3	0
6	Cerebrospinal Fluid Sulfonylurea Receptor-1 is Associated with Intracranial Pressure and Outcome after Pediatric TBI: An Exploratory Analysis of the Cool Kids Trial. Journal of Neurotrauma, 2021, 38, 1615-1619.	3.4	9
7	An exploratory assessment of serum biomarkers of post-cardiac arrest syndrome in children. Resuscitation, 2021, 167, 307-316.	3.0	5
8	Abcc8 (Sulfonylurea Receptor-1) Impact on Brain Atrophy after Traumatic Brain Injury Varies by Sex. Journal of Neurotrauma, 2021, 38, 2473-2485.	3.4	5
9	Intracranial and Cerebral Perfusion Pressure Thresholds Associated With Inhospital Mortality Across Pediatric Neurocritical Care*. Pediatric Critical Care Medicine, 2021, 22, 135-146.	0.5	18
10	An Evaluation of Antimicrobial Prescribing and Risk-adjusted Mortality. Pediatric Quality & Safety, 2021, 6, e481.	0.8	1
11	Paths to Successful Translation of New Therapies for Severe Traumatic Brain Injury in the Golden Age of Traumatic Brain Injury Research: A Pittsburgh Vision. Journal of Neurotrauma, 2020, 37, 2353-2371.	3.4	31
12	Early Hyperoxemia and Outcome Among Critically Ill Children. Pediatric Critical Care Medicine, 2020, 21, e129-e132.	0.5	7
13	Early Axonal Injury and Delayed Cytotoxic Cerebral Edema are Associated with Microglial Activation in a Mouse Model of Sepsis. Shock, 2020, 54, 256-264.	2.1	9
14	Maximum Pao 2 in the First 72 Hours of Intensive Care Is Associated With Risk-Adjusted Mortality in Pediatric Patients Undergoing Mechanical Ventilation. , 2020, 2, e0186.		9
15	Brain MR imaging and spectroscopy for outcome prognostication after pediatric cardiac arrest. Resuscitation, 2020, 157, 185-194.	3.0	17
16	Depletion of gut microbiota is associated with improved neurologic outcome following traumatic brain injury. Brain Research, 2020, 1747, 147056.	2.2	29
17	â€œTake a Numberâ€â€"Precision Monitoring Directs Precision Therapy. Neurocritical Care, 2020, 32, 683-686.	2.4	2
18	Aiming for the target: Mitochondrial drug delivery in traumatic brain injury. Neuropharmacology, 2019, 145, 209-219.	4.1	26

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19	DNA Viremia Is Associated with Hyperferritinemia in Pediatric Sepsis. Journal of Pediatrics, 2019, 213, 82-87.e2.	1.8	20
20	Association of Severe Hyperoxemia Events and Mortality Among Patients Admitted to a Pediatric Intensive Care Unit. JAMA Network Open, 2019, 2, e199812.	5.9	24
21	Factors Contributing to Fentanyl Pharmacokinetic Variability Among Diagnostically Diverse Critically Ill Children. Clinical Pharmacokinetics, 2019, 58, 1567-1576.	3.5	5
22	Detection of brain specific cardiolipins in plasma after experimental pediatric head injury. Experimental Neurology, 2019, 316, 63-73.	4.1	16
23	C-Reactive Protein and Ferritin Are Associated With Organ Dysfunction and Mortality in Hospitalized Children. Clinical Pediatrics, 2019, 58, 752-760.	0.8	33
24	Membrane transporters in traumatic brain injury: Pathological, pharmacotherapeutic, and developmental implications. Experimental Neurology, 2019, 317, 10-21.	4.1	5
25	Effect of dietary cellulose supplementation on gut barrier function and apoptosis in a murine model of endotoxemia. PLoS ONE, 2019, 14, e0224838.	2.5	10
26	Development and Performance of Electronic Pediatric Risk of Mortality and Pediatric Logistic Organ Dysfunction-2 Automated Acuity Scores*. Pediatric Critical Care Medicine, 2019, 20, e372-e379.	0.5	13
27	Dietary Cellulose Supplementation Modulates the Immune Response in a Murine Endotoxemia Model. Shock, 2019, 51, 526-534.	2.1	17
28	The aquaporin-4 inhibitor AER-271 blocks acute cerebral edema and improves early outcome in a pediatric model of asphyxial cardiac arrest. Pediatric Research, 2019, 85, 511-517.	2.3	18
29	Quantitative and qualitative assessment of glymphatic flux using Evans blue albumin. Journal of Neuroscience Methods, 2019, 311, 436-441.	2.5	20
30	The role of autophagy in acute brain injury: A state of flux?. Neurobiology of Disease, 2019, 122, 9-15.	4.4	40
31	Opioid e-prescribing trends at discharge in a large pediatric health system. Journal of Opioid Management, 2019, 15, 119-127.	0.5	4
32	24 vs. 72 hours of hypothermia for pediatric cardiac arrest: A pilot, randomized controlled trial. Resuscitation, 2018, 126, 14-20.	3.0	23
33	Regionally clustered <i>ABCC8</i> polymorphisms in a prospective cohort predict cerebral oedema and outcome in severe traumatic brain injury. Journal of Neurology, Neurosurgery and Psychiatry, 2018, 89, 1152-1162.	1.9	36
34	Brain-Specific Serum Biomarkers Predict Neurological Morbidity in Diagnostically Diverse Pediatric Intensive Care Unit Patients. Neurocritical Care, 2018, 28, 26-34.	2.4	17
35	<i>ABCG2</i> c.421C>A Is Associated with Outcomes after Severe Traumatic Brain Injury. Journal of Neurotrauma, 2018, 35, 48-53.	3.4	13
36	Minocycline Attenuates High Mobility Group Box 1 Translocation, Microglial Activation, and Thalamic Neurodegeneration after Traumatic Brain Injury in Post-Natal Day 17 Rats. Journal of Neurotrauma, 2018, 35, 130-138.	3.4	45

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37	The STELAR ICU: Leveraging Electronic Health Record Data to Foster Research and Optimize Patient Care. Informatics, 2018, 5, 37.	3.9	0
38	Synthesis and Evaluation of a Mitochondria-Targeting Poly(ADP-ribose) Polymerase-1 Inhibitor. ACS Chemical Biology, 2018, 13, 2868-2879.	3.4	16
39	Exploratory Application of Neuropharmacometabolomics in Severe Childhood Traumatic Brain Injury*. Critical Care Medicine, 2018, 46, 1471-1479.	0.9	14
40	Probenecid, an organic anion transporter 1 and 3 inhibitor, increases plasma and brain exposure of <i>N</i>-acetylcysteine. Xenobiotica, 2017, 47, 346-353.	1.1	39
41	The far-reaching scope of neuroinflammation after traumatic brain injury. Nature Reviews Neurology, 2017, 13, 171-191.	10.1	687
42	Cerebrospinal Fluid NLRP3 is Increased After Severe Traumatic Brain Injury in Infants and Children. Neurocritical Care, 2017, 27, 44-50.	2.4	90
43	ABCB1 genotype is associated with fentanyl requirements in critically ill children. Pediatric Research, 2017, 82, 29-35.	2.3	19
44	Autophagy Biomarkers Beclin 1 and p62 are Increased in Cerebrospinal Fluid after Traumatic Brain Injury. Neurocritical Care, 2017, 26, 348-355.	2.4	42
45	Pre-clinical models in pediatric traumatic brain injuryâ€"challenges and lessons learned. Child's Nervous System, 2017, 33, 1693-1701.	1.1	32
46	Detecting and Quantifying pADPr In Vivo. Methods in Molecular Biology, 2017, 1608, 27-43.	0.9	1
47	Enduring disturbances in regional cerebral blood flow and brain oxygenation at 24â€‰h after asphyxial cardiac arrest in developing rats. Pediatric Research, 2017, 81, 94-98.	2.3	7
48	ABCC8 Single Nucleotide Polymorphisms are Associated with Cerebral Edema in Severe TBI. Neurocritical Care, 2017, 26, 213-224.	2.4	40
49	Polynitroxylated Pegylated Hemoglobinâ€"A Novel, Small Volume Therapeutic for Traumatic Brain Injury Resuscitation: Comparison to Whole Blood and Dose Response Evaluation. Journal of Neurotrauma, 2017, 34, 1337-1350.	3.4	13
50	Alterations in Cerebral Blood Flow after Resuscitation from Cardiac Arrest. Frontiers in Pediatrics, 2017, 5, 174.	1.9	59
51	Long-Term Deficits in Cortical Circuit Function after Asphyxial Cardiac Arrest and Resuscitation in Developing Rats. ENeuro, 2017, 4, ENEURO.0319-16.2017.	1.9	5
52	Phase I randomized clinical trial of N-acetylcysteine in combination with an adjuvant probenecid for treatment of severe traumatic brain injury in children. PLoS ONE, 2017, 12, e0180280.	2.5	39
53	Effectiveness of Pharmacological Therapies for Intracranial Hypertension in Children With Severe Traumatic Brain Injuryâ€"Results From an Automated Data Collection System Time-Synched to Drug Administration. Pediatric Critical Care Medicine, 2016, 17, 236-245.	0.5	56
54	Exploratory study of serum ubiquitin carboxyl-terminal esterase L1 and glial fibrillary acidic protein for outcome prognostication after pediatric cardiac arrest. Resuscitation, 2016, 101, 65-70.	3.0	30

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55	Mechanistic characterization of nitriteâ€mediated neuroprotection after experimental cardiac arrest. Journal of Neurochemistry, 2016, 139, 419-431.	3.9	27
56	Combined Neurotrauma Models: Experimental Models Combining Traumatic Brain Injury and Secondary Insults. Methods in Molecular Biology, 2016, 1462, 393-411.	0.9	9
57	Traumatic brain injury research highlights in 2015. Lancet Neurology, The, 2016, 15, 13-15.	10.2	12
58	Probenecid and <i>N</i>-Acetylcysteine Prevent Loss of Intracellular Glutathione and Inhibit Neuronal Death after Mechanical Stretch Injury <i>In Vitro</i>. Journal of Neurotrauma, 2016, 33, 1913-1917.	3.4	19
59	Repetitive Mild Traumatic Brain Injury in the Developing Brain: Effects on Long-Term Functional Outcome and Neuropathology. Journal of Neurotrauma, 2016, 33, 641-651.	3.4	61
60	Expression of ATP-Binding Cassette Transporters B1 and C1 after Severe Traumatic Brain Injury in Humans. Journal of Neurotrauma, 2016, 33, 226-231.	3.4	18
61	Combination Therapies for Traumatic Brain Injury: Retrospective Considerations. Journal of Neurotrauma, 2016, 33, 101-112.	3.4	56
62	Emerging Therapies in Traumatic Brain Injury. Seminars in Neurology, 2015, 35, 083-100.	1.4	100
63	The Nuclear Splicing Factor RNA Binding Motif 5 Promotes Caspase Activation in Human Neuronal Cells, and Increases after Traumatic Brain Injury in Mice. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 655-666.	4.3	27
64	Ischemia-induced autophagy contributes to neurodegeneration in cerebellar Purkinje cells in the developing rat brain and in primary cortical neurons in vitro. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 1902-1911.	3.8	25
65	Brain tissue oxygen monitoring identifies cortical hypoxia and thalamic hyperoxia after experimental cardiac arrest in rats. Pediatric Research, 2014, 75, 295-301.	2.3	31
66	Cerebrospinal Fluid Mitochondrial DNA. Shock, 2014, 41, 499-503.	2.1	91
67	Blood brain barrier is impermeable to solutes and permeable to water after experimental pediatric cardiac arrest. Neuroscience Letters, 2014, 578, 17-21.	2.1	27
68	Influence of ATP-Binding Cassette Polymorphisms on Neurological Outcome After Traumatic Brain Injury. Neurocritical Care, 2013, 19, 192-198.	2.4	27
69	Mitochondrial Injury after Mechanical Stretch of Cortical Neurons<i>in vitro</i>: Biomarkers of Apoptosis and Selective Peroxidation of Anionic Phospholipids. Journal of Neurotrauma, 2012, 29, 776-788.	3.4	39
70	Thalamocortical Dysfunction and Thalamic Injury after Asphyxial Cardiac Arrest in Developing Rats. Journal of Neuroscience, 2012, 32, 4972-4981.	3.6	27
71	Cerebrospinal Fluid Levels of High-Mobility Group Box 1 and Cytochrome C Predict Outcome after Pediatric Traumatic Brain Injury. Journal of Neurotrauma, 2012, 29, 2013-2021.	3.4	87
72	Lipidomics identifies cardiolipin oxidation as a mitochondrial target for redox therapy of brain injury. Nature Neuroscience, 2012, 15, 1407-1413.	14.8	254

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73	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
74	Intracranial pressure-monitoring systems in children with traumatic brain injury: Combining therapeutic and diagnostic tools*. Pediatric Critical Care Medicine, 2011, 12, 560-565.	0.5	55
75	Unmasking Sex-Based Disparity in Neuronal Metabolism. Current Pharmaceutical Design, 2011, 17, 3854-3860.	1.9	15
76	Autophagy in acute brain injury: Feast, famine, or folly?. Neurobiology of Disease, 2011, 43, 52-59.	4.4	86
77	Evaluation of autophagy using mouse models of brain injury. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2010, 1802, 918-923.	3.8	18
78	Starving Neurons Show Sex Difference in Autophagy. Journal of Biological Chemistry, 2009, 284, 2383-2396.	3.4	180
79	Magnetic Resonance Imaging Assessment of Regional Cerebral Blood Flow after Asphyxial Cardiac Arrest in Immature Rats. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 197-205.	4.3	78
80	Chapter 11 Autophagy in Neurite Injury and Neurodegeneration. Methods in Enzymology, 2009, 453, 217-249.	1.0	103
81	Autophagy is Increased after Traumatic Brain Injury in Mice and is Partially Inhibited by the Antioxidant Î³-glutamylcysteinyl Ethyl Ester. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 540-550.	4.3	150
82	Identification of polyâ€ADPâ€ribosylated mitochondrial proteins after traumatic brain injury. Journal of Neurochemistry, 2008, 104, 1700-1711.	3.9	100
83	Autophagy is increased in mice after traumatic brain injury and is detectable in human brain after trauma and critical illness. Autophagy, 2008, 4, 88-90.	9.1	137
84	Local Administration of the Poly(ADP-Ribose) Polymerase Inhibitor INO-1001 Prevents NAD⁺ Depletion and Improves Water Maze Performance after Traumatic Brain Injury in Mice. Journal of Neurotrauma, 2007, 24, 1399-1405.	3.4	52
85	Selective early cardiolipin peroxidation after traumatic brain injury: an oxidative lipidomics analysis. Annals of Neurology, 2007, 62, 154-169.	5.3	168
86	boc-Aspartyl(OMe)-Fluoromethylketone Attenuates Mitochondrial Release of Cytochrome c and Delays Brain Tissue Loss after Traumatic Brain Injury in Rats. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 316-326.	4.3	35
87	Adenosine A1 Receptor Knockout Mice Develop Lethal Status Epilepticus after Experimental Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 565-575.	4.3	161
88	Isoflurane exerts neuroprotective actions at or near the time of severe traumatic brain injury. Brain Research, 2006, 1076, 216-224.	2.2	118
89	Gel-Based Hippocampal Proteomic Analysis 2 Weeks following Traumatic Brain Injury to Immature Rats Using Controlled Cortical Impact. Developmental Neuroscience, 2006, 28, 410-419.	2.0	50
90	Posttranslational protein modifications. Critical Care Medicine, 2005, 33, S407-S409.	0.9	28

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91	Cytochrome <i>c</i>, a Biomarker of Apoptosis, is Increased in Cerebrospinal Fluid from Infants with Inflicted Brain Injury from Child Abuse. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 919-927.	4.3	96
92	A dual role for polyâ€ADPâ€ribosylation in spatial memory acquisition after traumatic brain injury in mice involving NAD⁺ depletion and ribosylation of 14â€3â€3Î³. Journal of Neurochemistry, 2003, 85, 697-708.	3.9	101
93	Intra-mitochondrial Poly(ADP-ribosylation) Contributes to NAD+ Depletion and Cell Death Induced by Oxidative Stress. Journal of Biological Chemistry, 2003, 278, 18426-18433.	3.4	282
94	Caspaseâ€8 expression and proteolysis in human brain after severe head injury. FASEB Journal, 2003, 17, 1367-1369.	0.5	66
95	Assessment of Antioxidant Reserves and Oxidative Stress in Cerebrospinal Fluid after Severe Traumatic Brain Injury in Infants and Children. Pediatric Research, 2002, 51, 571-578.	2.3	253
96	Intranuclear localization of apoptosisâ€inducing factor (AIF) and large scale dna fragmentation after traumatic brain injury in rats and in neuronal cultures exposed to peroxynitrite. Journal of Neurochemistry, 2002, 82, 181-191.	3.9	245
97	Reduced brain edema after traumatic brain injury in mice deficient in P-selectin and intercellular adhesion molecule-1. Journal of Leukocyte Biology, 2000, 67, 160-168.	3.3	54
98	Caspaseâ€3 Mediated Neuronal Death After Traumatic Brain Injury in Rats. Journal of Neurochemistry, 2000, 74, 740-753.	3.9	360
99	Increases in Bclâ€2 and cleavage of caspaseâ€1 and caspaseâ€3 in human brain after head injury. FASEB Journal, 1999, 13, 813-821.	0.5	259
100	Reduction of Cognitive and Motor Deficits after Traumatic Brain Injury in Mice Deficient in Poly(ADP-Ribose) Polymerase. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 835-842.	4.3	151
101	Quinolinic Acid is Increased in CSF and Associated with Mortality after Traumatic Brain Injury in Humans. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 610-615.	4.3	71
102	Mild Posttraumatic Hypothermia Reduces Mortality after Severe Controlled Cortical Impact in Rats. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 253-261.	4.3	148
103	Inducible Nitric Oxide Synthase Expression in Cerebrovascular Smooth Muscle and Neutrophils after Traumatic Brain Injury in Immature Rats1. Pediatric Research, 1996, 39, 784-790.	2.3	162