

# Robert S B Clark

## List of Publications by Year in descending order

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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	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
2	The far-reaching scope of neuroinflammation after traumatic brain injury. <i>Nature Reviews Neurology</i> , 2017, 13, 171-191.	10.1	687
3	Caspase-3 Mediated Neuronal Death After Traumatic Brain Injury in Rats. <i>Journal of Neurochemistry</i> , 2000, 74, 740-753.	3.9	360
4	Intra-mitochondrial Poly(ADP-ribosylation) Contributes to NAD <sup>+</sup> Depletion and Cell Death Induced by Oxidative Stress. <i>Journal of Biological Chemistry</i> , 2003, 278, 18426-18433.	3.4	282
5	Increases in Bcl-2 and cleavage of caspase-1 and caspase-3 in human brain after head injury. <i>FASEB Journal</i> , 1999, 13, 813-821.	0.5	259
6	Lipidomics identifies cardiolipin oxidation as a mitochondrial target for redox therapy of brain injury. <i>Nature Neuroscience</i> , 2012, 15, 1407-1413.	14.8	254
7	Assessment of Antioxidant Reserves and Oxidative Stress in Cerebrospinal Fluid after Severe Traumatic Brain Injury in Infants and Children. <i>Pediatric Research</i> , 2002, 51, 571-578.	2.3	253
8	Intranuclear localization of apoptosis-inducing factor (AIF) and large scale dna fragmentation after traumatic brain injury in rats and in neuronal cultures exposed to peroxynitrite. <i>Journal of Neurochemistry</i> , 2002, 82, 181-191.	3.9	245
9	Starving Neurons Show Sex Difference in Autophagy. <i>Journal of Biological Chemistry</i> , 2009, 284, 2383-2396.	3.4	180
10	Selective early cardiolipin peroxidation after traumatic brain injury: an oxidative lipidomics analysis. <i>Annals of Neurology</i> , 2007, 62, 154-169.	5.3	168
11	Inducible Nitric Oxide Synthase Expression in Cerebrovascular Smooth Muscle and Neutrophils after Traumatic Brain Injury in Immature Rats. <i>Pediatric Research</i> , 1996, 39, 784-790.	2.3	162
12	Adenosine A1 Receptor Knockout Mice Develop Lethal Status Epilepticus after Experimental Traumatic Brain Injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 565-575.	4.3	161
13	Reduction of Cognitive and Motor Deficits after Traumatic Brain Injury in Mice Deficient in Poly(ADP-Ribose) Polymerase. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 835-842.	4.3	151
14	Autophagy is Increased after Traumatic Brain Injury in Mice and is Partially Inhibited by the Antioxidant $\beta$ -glutamylcysteinyl Ethyl Ester. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 540-550.	4.3	150
15	Mild Posttraumatic Hypothermia Reduces Mortality after Severe Controlled Cortical Impact in Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 253-261.	4.3	148
16	Autophagy is increased in mice after traumatic brain injury and is detectable in human brain after trauma and critical illness. <i>Autophagy</i> , 2008, 4, 88-90.	9.1	137
17	Trends in US Pediatric Hospital Admissions in 2020 Compared With the Decade Before the COVID-19 Pandemic. <i>JAMA Network Open</i> , 2021, 4, e2037227.	5.9	128
18	Isoflurane exerts neuroprotective actions at or near the time of severe traumatic brain injury. <i>Brain Research</i> , 2006, 1076, 216-224.	2.2	118

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19	Chapter 11 Autophagy in Neurite Injury and Neurodegeneration. <i>Methods in Enzymology</i> , 2009, 453, 217-249.	1.0	103
20	A dual role for poly(ADP-ribose) in spatial memory acquisition after traumatic brain injury in mice involving NAD <sup>+</sup> depletion and ribosylation of I $\beta$ . <i>Journal of Neurochemistry</i> , 2003, 85, 697-708.	3.9	101
21	Identification of poly(ADP-ribose) ribosylated mitochondrial proteins after traumatic brain injury. <i>Journal of Neurochemistry</i> , 2008, 104, 1700-1711.	3.9	100
22	Emerging Therapies in Traumatic Brain Injury. <i>Seminars in Neurology</i> , 2015, 35, 083-100.	1.4	100
23	Cytochrome <i>c</i> , a Biomarker of Apoptosis, is Increased in Cerebrospinal Fluid from Infants with Inflicted Brain Injury from Child Abuse. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 919-927.	4.3	96
24	Cerebrospinal Fluid Mitochondrial DNA. <i>Shock</i> , 2014, 41, 499-503.	2.1	91
25	Cerebrospinal Fluid NLRP3 is Increased After Severe Traumatic Brain Injury in Infants and Children. <i>Neurocritical Care</i> , 2017, 27, 44-50.	2.4	90
26	Cerebrospinal Fluid Levels of High-Mobility Group Box 1 and Cytochrome C Predict Outcome after Pediatric Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2012, 29, 2013-2021.	3.4	87
27	Autophagy in acute brain injury: Feast, famine, or folly?. <i>Neurobiology of Disease</i> , 2011, 43, 52-59.	4.4	86
28	Magnetic Resonance Imaging Assessment of Regional Cerebral Blood Flow after Asphyxial Cardiac Arrest in Immature Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 197-205.	4.3	78
29	Quinolinic Acid is Increased in CSF and Associated with Mortality after Traumatic Brain Injury in Humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998, 18, 610-615.	4.3	71
30	Blood Biomarkers for Detection of Brain Injury in COVID-19 Patients. <i>Journal of Neurotrauma</i> , 2021, 38, 1-43.	3.4	68
31	Caspase-8 expression and proteolysis in human brain after severe head injury. <i>FASEB Journal</i> , 2003, 17, 1367-1369.	0.5	66
32	Repetitive Mild Traumatic Brain Injury in the Developing Brain: Effects on Long-Term Functional Outcome and Neuropathology. <i>Journal of Neurotrauma</i> , 2016, 33, 641-651.	3.4	61
33	Alterations in Cerebral Blood Flow after Resuscitation from Cardiac Arrest. <i>Frontiers in Pediatrics</i> , 2017, 5, 174.	1.9	59
34	Effectiveness of Pharmacological Therapies for Intracranial Hypertension in Children With Severe Traumatic Brain Injury—Results From an Automated Data Collection System Time-Synched to Drug Administration. <i>Pediatric Critical Care Medicine</i> , 2016, 17, 236-245.	0.5	56
35	Combination Therapies for Traumatic Brain Injury: Retrospective Considerations. <i>Journal of Neurotrauma</i> , 2016, 33, 101-112.	3.4	56
36	Intracranial pressure-monitoring systems in children with traumatic brain injury: Combining therapeutic and diagnostic tools*. <i>Pediatric Critical Care Medicine</i> , 2011, 12, 560-565.	0.5	55

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37	Reduced brain edema after traumatic brain injury in mice deficient in P-selectin and intercellular adhesion molecule-1. <i>Journal of Leukocyte Biology</i> , 2000, 67, 160-168.	3.3	54
38	Local Administration of the Poly(ADP-Ribose) Polymerase Inhibitor INO-1001 Prevents NAD <sup>+</sup> Depletion and Improves Water Maze Performance after Traumatic Brain Injury in Mice. <i>Journal of Neurotrauma</i> , 2007, 24, 1399-1405.	3.4	52
39	Gel-Based Hippocampal Proteomic Analysis 2 Weeks following Traumatic Brain Injury to Immature Rats Using Controlled Cortical Impact. <i>Developmental Neuroscience</i> , 2006, 28, 410-419.	2.0	50
40	Minocycline Attenuates High Mobility Group Box 1 Translocation, Microglial Activation, and Thalamic Neurodegeneration after Traumatic Brain Injury in Post-Natal Day 17 Rats. <i>Journal of Neurotrauma</i> , 2018, 35, 130-138.	3.4	45
41	Autophagy Biomarkers Beclin 1 and p62 are Increased in Cerebrospinal Fluid after Traumatic Brain Injury. <i>Neurocritical Care</i> , 2017, 26, 348-355.	2.4	42
42	ABCC8 Single Nucleotide Polymorphisms are Associated with Cerebral Edema in Severe TBI. <i>Neurocritical Care</i> , 2017, 26, 213-224.	2.4	40
43	The role of autophagy in acute brain injury: A state of flux?. <i>Neurobiology of Disease</i> , 2019, 122, 9-15.	4.4	40
44	Mitochondrial Injury after Mechanical Stretch of Cortical Neurons <i>in vitro</i> : Biomarkers of Apoptosis and Selective Peroxidation of Anionic Phospholipids. <i>Journal of Neurotrauma</i> , 2012, 29, 776-788.	3.4	39
45	Probenecid, an organic anion transporter 1 and 3 inhibitor, increases plasma and brain exposure of N-acetylcysteine. <i>Xenobiotica</i> , 2017, 47, 346-353.	1.1	39
46	Phase I randomized clinical trial of N-acetylcysteine in combination with an adjuvant probenecid for treatment of severe traumatic brain injury in children. <i>PLoS ONE</i> , 2017, 12, e0180280.	2.5	39
47	Regionally clustered ABCC8 polymorphisms in a prospective cohort predict cerebral oedema and outcome in severe traumatic brain injury. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2018, 89, 1152-1162.	1.9	36
48	boc-Aspartyl(OMe)-Fluoromethylketone Attenuates Mitochondrial Release of Cytochrome c and Delays Brain Tissue Loss after Traumatic Brain Injury in Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 316-326.	4.3	35
49	C-Reactive Protein and Ferritin Are Associated With Organ Dysfunction and Mortality in Hospitalized Children. <i>Clinical Pediatrics</i> , 2019, 58, 752-760.	0.8	33
50	Pre-clinical models in pediatric traumatic brain injury—challenges and lessons learned. <i>Child's Nervous System</i> , 2017, 33, 1693-1701.	1.1	32
51	Brain tissue oxygen monitoring identifies cortical hypoxia and thalamic hyperoxia after experimental cardiac arrest in rats. <i>Pediatric Research</i> , 2014, 75, 295-301.	2.3	31
52	Paths to Successful Translation of New Therapies for Severe Traumatic Brain Injury in the Golden Age of Traumatic Brain Injury Research: A Pittsburgh Vision. <i>Journal of Neurotrauma</i> , 2020, 37, 2353-2371.	3.4	31
53	Exploratory study of serum ubiquitin carboxyl-terminal esterase L1 and glial fibrillary acidic protein for outcome prognostication after pediatric cardiac arrest. <i>Resuscitation</i> , 2016, 101, 65-70.	3.0	30
54	Depletion of gut microbiota is associated with improved neurologic outcome following traumatic brain injury. <i>Brain Research</i> , 2020, 1747, 147056.	2.2	29

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55	Posttranslational protein modifications. <i>Critical Care Medicine</i> , 2005, 33, S407-S409.	0.9	28
56	Thalamocortical Dysfunction and Thalamic Injury after Asphyxial Cardiac Arrest in Developing Rats. <i>Journal of Neuroscience</i> , 2012, 32, 4972-4981.	3.6	27
57	Influence of ATP-Binding Cassette Polymorphisms on Neurological Outcome After Traumatic Brain Injury. <i>Neurocritical Care</i> , 2013, 19, 192-198.	2.4	27
58	Blood brain barrier is impermeable to solutes and permeable to water after experimental pediatric cardiac arrest. <i>Neuroscience Letters</i> , 2014, 578, 17-21.	2.1	27
59	The Nuclear Splicing Factor RNA Binding Motif 5 Promotes Caspase Activation in Human Neuronal Cells, and Increases after Traumatic Brain Injury in Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 655-666.	4.3	27
60	Mechanistic characterization of nitrite-mediated neuroprotection after experimental cardiac arrest. <i>Journal of Neurochemistry</i> , 2016, 139, 419-431.	3.9	27
61	Aiming for the target: Mitochondrial drug delivery in traumatic brain injury. <i>Neuropharmacology</i> , 2019, 145, 209-219.	4.1	26
62	Ischemia-induced autophagy contributes to neurodegeneration in cerebellar Purkinje cells in the developing rat brain and in primary cortical neurons in vitro. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 1902-1911.	3.8	25
63	Association of Severe Hyperoxemia Events and Mortality Among Patients Admitted to a Pediatric Intensive Care Unit. <i>JAMA Network Open</i> , 2019, 2, e199812.	5.9	24
64	24 vs. 72 hours of hypothermia for pediatric cardiac arrest: A pilot, randomized controlled trial. <i>Resuscitation</i> , 2018, 126, 14-20.	3.0	23
65	DNA Viremia Is Associated with Hyperferritinemia in Pediatric Sepsis. <i>Journal of Pediatrics</i> , 2019, 213, 82-87.e2.	1.8	20
66	Quantitative and qualitative assessment of glymphatic flux using Evans blue albumin. <i>Journal of Neuroscience Methods</i> , 2019, 311, 436-441.	2.5	20
67	Probenecid and N-Acetylcysteine Prevent Loss of Intracellular Glutathione and Inhibit Neuronal Death after Mechanical Stretch Injury <i>In Vitro</i> . <i>Journal of Neurotrauma</i> , 2016, 33, 1913-1917.	3.4	19
68	ABCB1 genotype is associated with fentanyl requirements in critically ill children. <i>Pediatric Research</i> , 2017, 82, 29-35.	2.3	19
69	Evaluation of autophagy using mouse models of brain injury. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010, 1802, 918-923.	3.8	18
70	Expression of ATP-Binding Cassette Transporters B1 and C1 after Severe Traumatic Brain Injury in Humans. <i>Journal of Neurotrauma</i> , 2016, 33, 226-231.	3.4	18
71	The aquaporin-4 inhibitor AER-271 blocks acute cerebral edema and improves early outcome in a pediatric model of asphyxial cardiac arrest. <i>Pediatric Research</i> , 2019, 85, 511-517.	2.3	18
72	Intracranial and Cerebral Perfusion Pressure Thresholds Associated With Inhospital Mortality Across Pediatric Neurocritical Care*. <i>Pediatric Critical Care Medicine</i> , 2021, 22, 135-146.	0.5	18

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73	Brain-Specific Serum Biomarkers Predict Neurological Morbidity in Diagnostically Diverse Pediatric Intensive Care Unit Patients. <i>Neurocritical Care</i> , 2018, 28, 26-34.	2.4	17
74	Dietary Cellulose Supplementation Modulates the Immune Response in a Murine Endotoxemia Model. <i>Shock</i> , 2019, 51, 526-534.	2.1	17
75	Brain MR imaging and spectroscopy for outcome prognostication after pediatric cardiac arrest. <i>Resuscitation</i> , 2020, 157, 185-194.	3.0	17
76	Synthesis and Evaluation of a Mitochondria-Targeting Poly(ADP-ribose) Polymerase-1 Inhibitor. <i>ACS Chemical Biology</i> , 2018, 13, 2868-2879.	3.4	16
77	Detection of brain specific cardiolipins in plasma after experimental pediatric head injury. <i>Experimental Neurology</i> , 2019, 316, 63-73.	4.1	16
78	Unmasking Sex-Based Disparity in Neuronal Metabolism. <i>Current Pharmaceutical Design</i> , 2011, 17, 3854-3860.	1.9	15
79	Exploratory Application of Neuropharmacometabolomics in Severe Childhood Traumatic Brain Injury*. <i>Critical Care Medicine</i> , 2018, 46, 1471-1479.	0.9	14
80	Polynitroxylated Pegylated Hemoglobin A Novel, Small Volume Therapeutic for Traumatic Brain Injury Resuscitation: Comparison to Whole Blood and Dose Response Evaluation. <i>Journal of Neurotrauma</i> , 2017, 34, 1337-1350.	3.4	13
81	<i>ABCG2</i> Is Associated with Outcomes after Severe Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 48-53.	3.4	13
82	Development and Performance of Electronic Pediatric Risk of Mortality and Pediatric Logistic Organ Dysfunction-2 Automated Acuity Scores*. <i>Pediatric Critical Care Medicine</i> , 2019, 20, e372-e379.	0.5	13
83	Traumatic brain injury research highlights in 2015. <i>Lancet Neurology</i> , The, 2016, 15, 13-15.	10.2	12
84	Effect of dietary cellulose supplementation on gut barrier function and apoptosis in a murine model of endotoxemia. <i>PLoS ONE</i> , 2019, 14, e0224838.	2.5	10
85	Combined Neurotrauma Models: Experimental Models Combining Traumatic Brain Injury and Secondary Insults. <i>Methods in Molecular Biology</i> , 2016, 1462, 393-411.	0.9	9
86	Early Axonal Injury and Delayed Cytotoxic Cerebral Edema are Associated with Microglial Activation in a Mouse Model of Sepsis. <i>Shock</i> , 2020, 54, 256-264.	2.1	9
87	Maximum Pao <sub>2</sub> in the First 72 Hours of Intensive Care Is Associated With Risk-Adjusted Mortality in Pediatric Patients Undergoing Mechanical Ventilation. , 2020, 2, e0186.		9
88	Cerebrospinal Fluid Sulfonylurea Receptor-1 is Associated with Intracranial Pressure and Outcome after Pediatric TBI: An Exploratory Analysis of the Cool Kids Trial. <i>Journal of Neurotrauma</i> , 2021, 38, 1615-1619.	3.4	9
89	Enduring disturbances in regional cerebral blood flow and brain oxygenation at 24h after asphyxial cardiac arrest in developing rats. <i>Pediatric Research</i> , 2017, 81, 94-98.	2.3	7
90	Early Hyperoxemia and Outcome Among Critically Ill Children. <i>Pediatric Critical Care Medicine</i> , 2020, 21, e129-e132.	0.5	7

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91	Assessment of Dynamic Intracranial Compliance in Children with Severe Traumatic Brain Injury: Proof-of-Concept. <i>Neurocritical Care</i> , 2021, 34, 209-217.	2.4	6
92	Long-Term Deficits in Cortical Circuit Function after Asphyxial Cardiac Arrest and Resuscitation in Developing Rats. <i>ENeuro</i> , 2017, 4, ENEURO.0319-16.2017.	1.9	5
93	Factors Contributing to Fentanyl Pharmacokinetic Variability Among Diagnostically Diverse Critically Ill Children. <i>Clinical Pharmacokinetics</i> , 2019, 58, 1567-1576.	3.5	5
94	Membrane transporters in traumatic brain injury: Pathological, pharmacotherapeutic, and developmental implications. <i>Experimental Neurology</i> , 2019, 317, 10-21.	4.1	5
95	An exploratory assessment of serum biomarkers of post-cardiac arrest syndrome in children. <i>Resuscitation</i> , 2021, 167, 307-316.	3.0	5
96	Abcc8 (Sulfonylurea Receptor-1) Impact on Brain Atrophy after Traumatic Brain Injury Varies by Sex. <i>Journal of Neurotrauma</i> , 2021, 38, 2473-2485.	3.4	5
97	Association between pediatric TBI mortality and median family income in the United States: A retrospective cohort study. <i>The Lancet Regional Health Americas</i> , 2022, 5, 100164.	2.6	5
98	Opioid e-prescribing trends at discharge in a large pediatric health system. <i>Journal of Opioid Management</i> , 2019, 15, 119-127.	0.5	4
99	“Take a Number” Precision Monitoring Directs Precision Therapy. <i>Neurocritical Care</i> , 2020, 32, 683-686.	2.4	2
100	Detecting and Quantifying pADPr In Vivo. <i>Methods in Molecular Biology</i> , 2017, 1608, 27-43.	0.9	1
101	An Evaluation of Antimicrobial Prescribing and Risk-adjusted Mortality. <i>Pediatric Quality &amp; Safety</i> , 2021, 6, e481.	0.8	1
102	The STELAR ICU: Leveraging Electronic Health Record Data to Foster Research and Optimize Patient Care. <i>Informatics</i> , 2018, 5, 37.	3.9	0
103	Ascorbate deficiency confers resistance to hippocampal neurodegeneration after asphyxial cardiac arrest in juvenile rats. <i>Pediatric Research</i> , 2021, , .	2.3	0