

Allan Doctor

List of Publications by Year in descending order

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Version: 2024-02-01

123
papers

8,410
citations

57631

44
h-index

48187

88
g-index

124
all docs

124
docs citations

124
times ranked

7981
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical practice parameters for hemodynamic support of pediatric and neonatal septic shock: 2007 update from the American College of Critical Care Medicine*. Critical Care Medicine, 2009, 37, 666-688.	0.4	1,066
2	Evolution of adverse changes in stored RBCs. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17063-17068.	3.3	572
3	American College of Critical Care Medicine Clinical Practice Parameters for Hemodynamic Support of Pediatric and Neonatal Septic Shock. Critical Care Medicine, 2017, 45, 1061-1093.	0.4	475
4	Pediatric Intensive Care Outcomes. Pediatric Critical Care Medicine, 2014, 15, 821-827.	0.2	265
5	Factors Associated with Bleeding and Thrombosis in Children Receiving Extracorporeal Membrane Oxygenation. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 762-771.	2.5	264
6	Genome-level expression profiles in pediatric septic shock indicate a role for altered zinc homeostasis in poor outcome. Physiological Genomics, 2007, 30, 146-155.	1.0	221
7	S-Nitrosothiol Signaling in Respiratory Biology. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 1186-1193.	2.5	203
8	Critically Ill Children During the 2009â€“2010 Influenza Pandemic in the United States. Pediatrics, 2011, 128, e1450-e1458.	1.0	203
9	Association of Bleeding and Thrombosis With Outcome in Extracorporeal Life Support*. Pediatric Critical Care Medicine, 2015, 16, 167-174.	0.2	192
10	Hemoglobin conformation couples erythrocyte S-nitrosothiol content to O2 gradients. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5709-5714.	3.3	187
11	Simultaneous Prediction of New Morbidity, Mortality, and Survival Without New Morbidity From Pediatric Intensive Care. Critical Care Medicine, 2015, 43, 1699-1709.	0.4	177
12	S-Nitrosylation Signaling in Cell Biology. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2003, 3, 253-263.	3.4	176
13	Relationship Between the Functional Status Scale and the Pediatric Overall Performance Category and Pediatric Cerebral Performance Category Scales. JAMA Pediatrics, 2014, 168, 671.	3.3	172
14	Incidence and Outcomes of Cardiopulmonary Resuscitation in PICUs. Critical Care Medicine, 2016, 44, 798-808.	0.4	165
15	Alveolar macrophage activation is a key initiation signal for acute lung ischemia-reperfusion injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 291, L1018-L1026.	1.3	162
16	S-Nitrosothiols signal hypoxia-mimetic vascular pathology. Journal of Clinical Investigation, 2007, 117, 2592-2601.	3.9	145
17	Mechanisms of red blood cell transfusionâ€“related immunomodulation. Transfusion, 2018, 58, 804-815.	0.8	144
18	Consensus Recommendations for RBC Transfusion Practice in Critically Ill Children From the Pediatric Critical Care Transfusion and Anemia Expertise Initiative. Pediatric Critical Care Medicine, 2018, 19, 884-898.	0.2	132

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19	Hypoxia modulates the purine salvage pathway and decreases red blood cell and supernatant levels of hypoxanthine during refrigerated storage. <i>Haematologica</i> , 2018, 103, 361-372.	1.7	131
20	Association Between Diastolic Blood Pressure During Pediatric In-Hospital Cardiopulmonary Resuscitation and Survival. <i>Circulation</i> , 2018, 137, 1784-1795.	1.6	122
21	Genome-Level Longitudinal Expression of Signaling Pathways and Gene Networks in Pediatric Septic Shock. <i>Molecular Medicine</i> , 2007, 13, 495-508.	1.9	114
22	Ratio of PICU Versus Ward Cardiopulmonary Resuscitation Events Is Increasing*. <i>Critical Care Medicine</i> , 2013, 41, 2292-2297.	0.4	114
23	Transfusion-related immunomodulation: review of the literature and implications for pediatric critical illness. <i>Transfusion</i> , 2017, 57, 195-206.	0.8	114
24	Inhaled prostacyclin for the treatment of pulmonary hypertension after cardiac surgery. <i>Critical Care Medicine</i> , 2002, 30, 2762-2764.	0.4	104
25	S-Nitrosothiol measurements in biological systems. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 851, 140-151.	1.2	102
26	Critical Pertussis Illness in Children. <i>Pediatric Critical Care Medicine</i> , 2013, 14, 356-365.	0.2	87
27	Red Blood Cell and Endothelial eNOS Independently Regulate Circulating Nitric Oxide Metabolites and Blood Pressure. <i>Circulation</i> , 2021, 144, 870-889.	1.6	85
28	Effect of implementation of a paediatric neurocritical care programme on outcomes after severe traumatic brain injury: a retrospective cohort study. <i>Lancet Neurology</i> , The, 2013, 12, 45-52.	4.9	81
29	Regional oxygen extraction predicts border zone vulnerability to stroke in sickle cell disease. <i>Neurology</i> , 2018, 90, e1134-e1142.	1.5	81
30	Hypoxia limits antioxidant capacity in red blood cells by altering glycolytic pathway dominance. <i>FASEB Journal</i> , 2009, 23, 3159-3170.	0.2	75
31	Extrapulmonary Effects of Inhaled Nitric Oxide: Role of Reversible S-Nitrosylation of Erythrocytic Hemoglobin. <i>Proceedings of the American Thoracic Society</i> , 2006, 3, 153-160.	3.5	72
32	Effect of Processing and Storage on Red Blood Cell Function In Vivo. <i>Seminars in Perinatology</i> , 2012, 36, 248-259.	1.1	72
33	S-Nitrosylating Agents: A Novel Class of Compounds That Increase Cystic Fibrosis Transmembrane Conductance Regulator Expression and Maturation in Epithelial Cells. <i>Molecular Pharmacology</i> , 2006, 70, 1435-1442.	1.0	70
34	Nitric Oxide Transport in Blood: A Third Gas in the Respiratory Cycle. , 2011, 1, 541-568.		70
35	Red cell exchange transfusions lower cerebral blood flow and oxygen extraction fraction in pediatric sickle cell anemia. <i>Blood</i> , 2018, 131, 1012-1021.	0.6	68
36	Fatal and Near-Fatal Asthma in Children: The Critical Care Perspective. <i>Journal of Pediatrics</i> , 2012, 161, 214-221.e3.	0.9	67

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37	Sickle hemoglobin disturbs normal coupling among erythrocyte O2 content, glycolysis, and antioxidant capacity. <i>Blood</i> , 2013, 121, 1651-1662.	0.6	66
38	A Methodology to Evaluate Motion of the Unstable Spine During Intubation Techniques. <i>Spine</i> , 1993, 18, 2020-2023.	1.0	64
39	Physiologic Impact of Circulating RBC Microparticles upon Blood-Vascular Interactions. <i>Frontiers in Physiology</i> , 2017, 8, 1120.	1.3	63
40	Effect of Fresh vs Standard-issue Red Blood Cell Transfusions on Multiple Organ Dysfunction Syndrome in Critically Ill Pediatric Patients. <i>JAMA - Journal of the American Medical Association</i> , 2019, 322, 2179.	3.8	62
41	Pulmonary blood flow distribution during partial liquid ventilation. <i>Journal of Applied Physiology</i> , 1998, 84, 1540-1550.	1.2	57
42	Direct Regulation of Striated Muscle Myosins by Nitric Oxide and Endogenous Nitrosothiols. <i>PLoS ONE</i> , 2010, 5, e11209.	1.1	56
43	Chest compression rates and pediatric in-hospital cardiac arrest survival outcomes. <i>Resuscitation</i> , 2018, 130, 159-166.	1.3	52
44	Nitric Oxide during Altitude Acclimatization. <i>New England Journal of Medicine</i> , 2011, 365, 1942-1944.	13.9	51
45	Recommendations on RBC Transfusion in General Critically Ill Children Based on Hemoglobin and/or Physiologic Thresholds From the Pediatric Critical Care Transfusion and Anemia Expertise Initiative. <i>Pediatric Critical Care Medicine</i> , 2018, 19, S98-S113.	0.2	47
46	Pediatric Organ Dysfunction Information Update Mandate (PODIUM) Contemporary Organ Dysfunction Criteria: Executive Summary. <i>Pediatrics</i> , 2022, 149, S1-S12.	1.0	45
47	Concentration-dependent effects of endogenous S-nitrosoglutathione on gene regulation by specificity proteins Sp3 and Sp1. <i>Biochemical Journal</i> , 2004, 380, 67-74.	1.7	44
48	Tumor necrosis factor- α from resident lung cells is a key initiating factor in pulmonary ischemia-reperfusion injury. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2004, 127, 541-547.	0.4	43
49	RBC Distribution Width: Biomarker for Red Cell Dysfunction and Critical Illness Outcome?*. <i>Pediatric Critical Care Medicine</i> , 2017, 18, 134-142.	0.2	43
50	High-frequency oscillatory ventilation of the perfluorocarbon-filled lung: Preliminary results in an animal model of acute lung injury. <i>Critical Care Medicine</i> , 1999, 27, 2500-2507.	0.4	43
51	The interactome of the N-terminus of band 3 regulates red blood cell metabolism and storage quality. <i>Haematologica</i> , 2021, 106, 2971-2985.	1.7	40
52	Buffering airway acid decreases exhaled nitric oxide in asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2006, 118, 817-822.	1.5	38
53	Meaning making during parent-physician bereavement meetings after a child's death.. <i>Health Psychology</i> , 2015, 34, 453-461.	1.3	38
54	Red blood cell antibody-induced anemia causes differential degrees of tissue hypoxia in kidney and brain. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R611-R622.	0.9	38

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55	Vancomycin Monotherapy May Be Insufficient to Treat Methicillin-resistant <i>Staphylococcus aureus</i> Coinfection in Children With Influenza-related Critical Illness. <i>Clinical Infectious Diseases</i> , 2019, 68, 365-372.	2.9	38
56	Red Blood Cell Contribution to Hemostasis. <i>Frontiers in Pediatrics</i> , 2021, 9, 629824.	0.9	38
57	The Ideal Time Interval for Critical Care Severity-of-Illness Assessment. <i>Pediatric Critical Care Medicine</i> , 2013, 14, 448-453.	0.2	36
58	Role of Transfused Red Blood Cells for Shock and Coagulopathy Within Remote Damage Control Resuscitation. <i>Shock</i> , 2014, 41, 30-34.	1.0	35
59	Influence of red blood cell-derived microparticles upon vasoregulation. <i>Blood Transfusion</i> , 2017, 15, 522-534.	0.3	35
60	Fresh Goat's Milk for Infants: Myths and Realities—A Review. <i>Pediatrics</i> , 2010, 125, e973-e977.	1.0	34
61	High-frequency oscillatory ventilation of the perfluorocarbon-filled lung: Dose-response relationships in an animal model of acute lung injury. <i>Critical Care Medicine</i> , 2001, 29, 847-854.	0.4	33
62	Does the storage duration of blood products affect outcomes in critically ill patients?. <i>Transfusion</i> , 2011, 51, 1644-1650.	0.8	33
63	Multiple sclerosis and brain tumor: A diagnostic challenge. <i>Journal of Emergency Medicine</i> , 1989, 7, 241-244.	0.3	29
64	Functional Regulation of T-Type Calcium Channels by S-Nitrosothiols in the Rat Thalamus. <i>Journal of Neurophysiology</i> , 2007, 97, 2712-2721.	0.9	28
65	Fentanyl and Midazolam Are Ineffective in Reducing Episodic Intracranial Hypertension in Severe Pediatric Traumatic Brain Injury*. <i>Critical Care Medicine</i> , 2016, 44, 809-818.	0.4	28
66	S-Nitrosothiol Formation. <i>Methods in Enzymology</i> , 2005, 396, 95-105.	0.4	26
67	Citrate Anticoagulation During Continuous Renal Replacement Therapy in Pediatric Critical Care. <i>Pediatric Critical Care Medicine</i> , 2014, 15, 471-485.	0.2	26
68	Modulating Vascular Hemodynamics With an Alpha Globin Mimetic Peptide (Hb1±X). <i>Hypertension</i> , 2016, 68, 1494-1503.	1.3	26
69	Effects of Nitroglycerin on Erythrocyte Rheology and Oxygen Unloading. <i>Circulation</i> , 2006, 113, 2502-2508.	1.6	25
70	Red blood cell phenotype fidelity following glycerol cryopreservation optimized for research purposes. <i>PLoS ONE</i> , 2018, 13, e0209201.	1.1	25
71	Reduction in Mortality Following Pediatric Rapid Response Team Implementation*. <i>Pediatric Critical Care Medicine</i> , 2018, 19, 477-482.	0.2	23
72	Quantifying dynamic range in red blood cell energetics: Evidence of progressive energy failure during storage. <i>Transfusion</i> , 2021, 61, 1586-1599.	0.8	21

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73	Detecting physiologic fluctuations in the S-nitrosohemoglobin micropopulation: triiodide versus 3C. Blood, 2006, 108, 3225-3227.	0.6	20
74	2016 proceedings of the National Heart, Lung, and Blood Institute's scientific priorities in pediatric transfusion medicine. Transfusion, 2017, 57, 1568-1581.	0.8	20
75	Functional outcomes among survivors of pediatric in-hospital cardiac arrest are associated with baseline neurologic and functional status, but not with diastolic blood pressure during CPR. Resuscitation, 2019, 143, 57-65.	1.3	20
76	Development of the Pediatric Extracorporeal Membrane Oxygenation Prediction Model for Risk-Adjusting Mortality*. Pediatric Critical Care Medicine, 2019, 20, 426-434.	0.2	20
77	SNO-hemoglobin and hypoxic vasodilation. Nature Medicine, 2008, 14, 1009-1009.	15.2	16
78	Evolution of surfactant proteinâ€œ levels in children with ventilatorâ€œ-associated pneumonia. Pediatric Pulmonology, 2012, 47, 292-299.	1.0	16
79	RIG-I and TLR4 responses and adverse outcomes in pediatric influenza-related critical illness. Journal of Allergy and Clinical Immunology, 2020, 145, 1673-1680.e11.	1.5	16
80	Erythromer (EM), a Nanoscale Bio-Synthetic Artificial Red Cell: Proof of Concept and In Vivo Efficacy Results. Blood, 2016, 128, 1027-1027.	0.6	16
81	Feasibility and Perceived Benefits of a Framework for Physician-Parent Follow-Up Meetings After a Childâ€™s Death in the PICU*. Critical Care Medicine, 2014, 42, 148-157.	0.4	15
82	Pediatric Multiple Organ Dysfunction Syndrome. Pediatric Critical Care Medicine, 2017, 18, S67-S82.	0.2	15
83	The association of immediate post cardiac arrest diastolic hypertension and survival following pediatric cardiac arrest. Resuscitation, 2019, 141, 88-95.	1.3	15
84	Extended high-frequency partial liquid ventilation in lung injury: gas exchange, injury quantification, and vapor loss. Journal of Applied Physiology, 2003, 95, 1248-1258.	1.2	14
85	Specific Etiologies Associated With the Multiple Organ Dysfunction Syndrome in Children. Pediatric Critical Care Medicine, 2017, 18, S58-S66.	0.2	13
86	Controlling Phlebotomy Volume Diminishes PICU Transfusion: Implementation Processes and Impact. Pediatrics, 2017, 140, .	1.0	13
87	Recommendations for utilization of the paracorporeal lung assist device in neonates and young children with pulmonary hypertension. Pediatric Transplantation, 2016, 20, 256-270.	0.5	12
88	Transfusion Decision Making in Pediatric Critical Illness. Pediatric Clinics of North America, 2017, 64, 991-1015.	0.9	12
89	Cognitive Development One Year After Infantile Critical Pertussis*. Pediatric Critical Care Medicine, 2018, 19, 89-97.	0.2	12
90	Inherent Risk Factors for Nosocomial Infection in the Long Stay Critically Ill Child Without Known Baseline Immunocompromise. Pediatric Infectious Disease Journal, 2016, 35, 1182-1186.	1.1	11

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91	A clickable probe for versatile characterization of S-nitrosothiols. <i>Redox Biology</i> , 2020, 37, 101707.	3.9	11
92	The age of blood in pediatric intensive care units (ABC PICU): study protocol for a randomized controlled trial. <i>Trials</i> , 2018, 19, 404.	0.7	10
93	Red cell physiology and signaling relevant to the critical care setting. <i>Current Opinion in Pediatrics</i> , 2015, 27, 267-276.	1.0	9
94	Language Analysis as a Window to Bereaved Parents'™ Emotions During a Parent's™ Physician Bereavement Meeting. <i>Journal of Language and Social Psychology</i> , 2015, 34, 181-199.	1.2	9
95	Design, synthesis, and biological evaluation of stable \hat{I}^2 6.3 -Helices: Discovery of non-hemolytic antibacterial peptides. <i>European Journal of Medicinal Chemistry</i> , 2018, 149, 193-210.	2.6	9
96	Optimizing intrapulmonary perfluorocarbon distribution: Fluoroscopic comparison of mode of ventilation and body position. <i>Critical Care Medicine</i> , 2001, 29, 601-608.	0.4	8
97	Experimental assessment of oxygen homeostasis during acute hemodilution: the integrated role of hemoglobin concentration and blood pressure. <i>Intensive Care Medicine Experimental</i> , 2017, 5, 12.	0.9	8
98	Effect of plasma processing and storage on microparticle abundance, nitric oxide scavenging, and vasoactivity. <i>Transfusion</i> , 2019, 59, 1568-1577.	0.8	8
99	Red Blood Cell Dysfunction in Critical Illness. <i>Critical Care Clinics</i> , 2020, 36, 267-292.	1.0	8
100	Application of systems dynamics and group model building to identify barriers and facilitators to acute care delivery in a resource limited setting. <i>BMC Health Services Research</i> , 2021, 21, 26.	0.9	7
101	Analysis of S-nitrosothiols via copper cysteine (2C) and copper cysteine ' Carbon monoxide (3C) methods. <i>Methods</i> , 2013, 62, 123-129.	1.9	6
102	NIH Workshop 2018: Towards Minimally Invasive or Noninvasive Approaches to Assess Tissue Oxygenation Pre- and Post-transfusion. <i>Transfusion Medicine Reviews</i> , 2021, 35, 46-55.	0.9	6
103	Factors Influencing Implementation of Blood Transfusion Recommendations in Pediatric Critical Care Units. <i>Frontiers in Pediatrics</i> , 2021, 9, 800461.	0.9	6
104	Etiology, Pathophysiology and Mortality of Shock in Children in Low (Middle) Income Countries: A Systematic Review. <i>Journal of Tropical Pediatrics</i> , 2022, 68, .	0.7	6
105	Transnitrosation Signals Oxyhemoglobin Desaturation. <i>Circulation Research</i> , 2008, 103, 441-443.	2.0	5
106	Neurocritical Care Research Networks'™ Pediatric Considerations. <i>Neurocritical Care</i> , 2012, 17, 468-469.	1.2	5
107	A pilot study on the kinetics of metabolites and microvascular cutaneous effects of nitric oxide inhalation in healthy volunteers. <i>PLoS ONE</i> , 2019, 14, e0221777.	1.1	5
108	How to Guide Transfusion Decision-Making? That Is the Question*. <i>Pediatric Critical Care Medicine</i> , 2014, 15, 895-896.	0.2	4

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109	Association between time of day and CPR quality as measured by CPR hemodynamics during pediatric in-hospital CPR. <i>Resuscitation</i> , 2020, 153, 209-216.	1.3	4
110	Outcomes Associated With Early RBC Transfusion in Pediatric Severe Sepsis: A Propensity-Adjusted Multicenter Cohort Study. <i>Shock</i> , 2022, 57, 88-94.	1.0	4
111	Early recognition of neonatal sepsis using a bioinformatic vital sign monitoring tool. <i>Pediatric Research</i> , 2022, 91, 270-272.	1.1	4
112	Probing single-cell oxygen reserve in sickled erythrocytes via in vivo photoacoustic microscopy. <i>American Journal of Hematology</i> , 2022, 97, .	2.0	3
113	Anticoagulation practices associated with bleeding and thrombosis in pediatric extracorporeal membrane oxygenation; a multi-center secondary analysis. <i>Perfusion (United Kingdom)</i> , 2022, , 026765912110565.	0.5	3
114	Effects of blood storage age on immune, coagulation, and nitric oxide parameters in transfused patients undergoing cardiac surgery. <i>Transfusion</i> , 2019, 59, 1209-1222.	0.8	2
115	Context-Responsive Anticoagulation Reduces Complications in Pediatric Extracorporeal Membrane Oxygenation. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 637106.	1.1	2
116	Development of a Structured Outcomes Assessment and Implementation Program in the Pediatric Intensive Care Unit. <i>American Journal of Medical Quality</i> , 2019, 34, 23-29.	0.2	1
117	You're only as old as you feel: Age is not just a number. <i>Transfusion</i> , 2020, 60, 2464-2465.	0.8	1
118	Hematologic Dysfunction Criteria in Critically Ill Children: The PODIUM Consensus Conference. <i>Pediatrics</i> , 2022, 149, S74-S78.	1.0	1
119	Mortality in severe traumatic brain injury – Authors' reply. <i>Lancet Neurology</i> , The, 2013, 12, 427-428.	4.9	0
120	How to Push the Limit. <i>Pediatric Critical Care Medicine</i> , 2018, 19, 680-681.	0.2	0
121	Nitrosothiols regulate antioxidant capacity in red blood cells. <i>FASEB Journal</i> , 2009, 23, LB130.	0.2	0
122	Hematologic Disorders. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2014, , 349-369.	0.4	0
123	Bio-Inspired Artificial Red Blood Cell: Design, Pre-Clinical Results and Novel Indications. <i>Blood</i> , 2019, 134, SCI-4-SCI-4.	0.6	0