Allan Doctor

List of Publications by Year
in descending order

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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	Outcomes Associated With Early RBC Transfusion in Pediatric Severe Sepsis: A Propensity-Adjusted Multicenter Cohort Study. Shock, 2022, 57, 88-94.	1.0	4
2	Probing singleâ€cell oxygen reserve in sickled erythrocytes via in vivo photoacoustic microscopy. American Journal of Hematology, 2022, 97, .	2.0	3
3	Early recognition of neonatal sepsis using a bioinformatic vital sign monitoring tool. Pediatric Research, 2022, 91, 270-272.	1.1	4
4	Hematologic Dysfunction Criteria in Critically Ill Children: The PODIUM Consensus Conference. Pediatrics, 2022, 149, S74-S78.	1.0	1
5	Pediatric Organ Dysfunction Information Update Mandate (PODIUM) Contemporary Organ Dysfunction Criteria: Executive Summary. Pediatrics, 2022, 149, S1-S12.	1.0	45
6	Anticoagulation practices associated with bleeding and thrombosis in pediatric extracorporeal membrane oxygenation; a multi-center secondary analysis. Perfusion (United Kingdom), 2022, , 026765912110565.	0.5	3
7	Etiology, Pathophysiology and Mortality of Shock in Children in Low (Middle) Income Countries: A Systematic Review. Journal of Tropical Pediatrics, 2022, 68, .	0.7	6
8	Red Blood Cell Contribution to Hemostasis. Frontiers in Pediatrics, 2021, 9, 629824.	0.9	38
9	Quantifying dynamic range in red blood cell energetics: Evidence of progressive energy failure during storage. Transfusion, 2021, 61, 1586-1599.	0.8	21
10	The interactome of the N-terminus of band 3 regulates red blood cell metabolism and storage quality. Haematologica, 2021, 106, 2971-2985.	1.7	40
11	Context-Responsive Anticoagulation Reduces Complications in Pediatric Extracorporeal Membrane Oxygenation. Frontiers in Cardiovascular Medicine, 2021, 8, 637106.	1.1	2
12	Red Blood Cell and Endothelial eNOS Independently Regulate Circulating Nitric Oxide Metabolites and Blood Pressure. Circulation, 2021, 144, 870-889.	1.6	85
13	Application of systems dynamics and group model building to identify barriers and facilitators to acute care delivery in a resource limited setting. BMC Health Services Research, 2021, 21, 26.	0.9	7
14	NIH Workshop 2018: Towards Minimally Invasive or Noninvasive Approaches to Assess Tissue Oxygenation Pre- and Post-transfusion. Transfusion Medicine Reviews, 2021, 35, 46-55.	0.9	6
15	Factors Influencing Implementation of Blood Transfusion Recommendations in Pediatric Critical Care Units. Frontiers in Pediatrics, 2021, 9, 800461.	0.9	6
16	A clickable probe for versatile characterization of S-nitrosothiols. Redox Biology, 2020, 37, 101707.	3.9	11
17	You're only as old as you feel: Age is not just a number. Transfusion, 2020, 60, 2464-2465.	0.8	1
18	Association between time of day and CPR quality as measured by CPR hemodynamics during pediatric in-hospital CPR. Resuscitation, 2020, 153, 209-216.	1.3	4

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19	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
20	Red Blood Cell Dysfunction in Critical Illness. Critical Care Clinics, 2020, 36, 267-292.	1.0	8
21	Vancomycin Monotherapy May Be Insufficient to Treat Methicillin-resistantStaphylococcus aureusCoinfection in Children With Influenza-related Critical Illness. Clinical Infectious Diseases, 2019, 68, 365-372.	2.9	38
22	Development of a Structured Outcomes Assessment and Implementation Program in the Pediatric Intensive Care Unit. American Journal of Medical Quality, 2019, 34, 23-29.	0.2	1
23	A pilot study on the kinetics of metabolites and microvascular cutaneous effects of nitric oxide inhalation in healthy volunteers. PLoS ONE, 2019, 14, e0221777.	1.1	5
24	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
25	The association of immediate post cardiac arrest diastolic hypertension and survival following pediatric cardiac arrest. Resuscitation, 2019, 141, 88-95.	1.3	15
26	Effects of blood storage age on immune, coagulation, and nitric oxide parameters in transfused patients undergoing cardiac surgery. Transfusion, 2019, 59, 1209-1222.	0.8	2
27	Effect of plasma processing and storage on microparticle abundance, nitric oxide scavenging, and vasoactivity. Transfusion, 2019, 59, 1568-1577.	0.8	8
28	Development of the Pediatric Extracorporeal Membrane Oxygenation Prediction Model for Risk-Adjusting Mortality*. Pediatric Critical Care Medicine, 2019, 20, 426-434.	0.2	20
29	Effect of Fresh vs Standard-issue Red Blood Cell Transfusions on Multiple Organ Dysfunction Syndrome in Critically Ill Pediatric Patients. JAMA - Journal of the American Medical Association, 2019, 322, 2179.	3.8	62
30	Bio-Inspired Artificial Red Blood Cell: Design, Pre-Clinical Results and Novel Indications. Blood, 2019, 134, SCI-4-SCI-4.	0.6	0
31	Regional oxygen extraction predicts border zone vulnerability to stroke in sickle cell disease. Neurology, 2018, 90, e1134-e1142.	1.5	81
32	Design, synthesis, and biological evaluation of stable Î² 6.3 -Helices: Discovery of non-hemolytic antibacterial peptides. European Journal of Medicinal Chemistry, 2018, 149, 193-210.	2.6	9
33	Mechanisms of red blood cell transfusionâ€related immunomodulation. Transfusion, 2018, 58, 804-815.	0.8	144
34	Association Between Diastolic Blood Pressure During Pediatric In-Hospital Cardiopulmonary Resuscitation and Survival. Circulation, 2018, 137, 1784-1795.	1.6	122
35	Red cell exchange transfusions lower cerebral blood flow and oxygen extraction fraction in pediatric sickle cell anemia. Blood, 2018, 131, 1012-1021.	0.6	68
36	Reduction in Mortality Following Pediatric Rapid Response Team Implementation*. Pediatric Critical Care Medicine, 2018, 19, 477-482.	0.2	23

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37	Hypoxia modulates the purine salvage pathway and decreases red blood cell and supernatant levels of hypoxanthine during refrigerated storage. Haematologica, 2018, 103, 361-372.	1.7	131
38	Cognitive Development One Year After Infantile Critical Pertussis*. Pediatric Critical Care Medicine, 2018, 19, 89-97.	0.2	12
39	Red blood cell phenotype fidelity following glycerol cryopreservation optimized for research purposes. PLoS ONE, 2018, 13, e0209201.	1.1	25
40	How to Push the Limit. Pediatric Critical Care Medicine, 2018, 19, 680-681.	0.2	0
41	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
42	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. Pediatric Critical Care Medicine, 2018, 19, S98-S113.	0.2	47
43	The age of blood in pediatric intensive care units (ABC PICU): study protocol for a randomized controlled trial. Trials, 2018, 19, 404.	0.7	10
44	Red blood cell antibody-induced anemia causes differential degrees of tissue hypoxia in kidney and brain. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 314, R611-R622.	0.9	38
45	Chest compression rates and pediatric in-hospital cardiac arrest survival outcomes. Resuscitation, 2018, 130, 159-166.	1.3	52
46	Experimental assessment of oxygen homeostasis during acute hemodilution: the integrated role of hemoglobin concentration and blood pressure. Intensive Care Medicine Experimental, 2017, 5, 12.	0.9	8
47	RBC Distribution Width: Biomarker for Red Cell Dysfunction and Critical Illness Outcome?*. Pediatric Critical Care Medicine, 2017, 18, 134-142.	0.2	43
48	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
49	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
50	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
51	Specific Etiologies Associated With the Multiple Organ Dysfunction Syndrome in Children. Pediatric Critical Care Medicine, 2017, 18, S58-S66.	0.2	13
52	Pediatric Multiple Organ Dysfunction Syndrome. Pediatric Critical Care Medicine, 2017, 18, S67-S82.	0.2	15
53	Transfusion Decision Making in Pediatric Critical Illness. Pediatric Clinics of North America, 2017, 64, 991-1015.	0.9	12
54	Controlling Phlebotomy Volume Diminishes PICU Transfusion: Implementation Processes and Impact. Pediatrics, 2017, 140, .	1.0	13

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55	Transfusionâ€related immunomodulation: review of the literature and implications for pediatric critical illness. Transfusion, 2017, 57, 195-206.	0.8	114
56	Physiologic Impact of Circulating RBC Microparticles upon Blood-Vascular Interactions. Frontiers in Physiology, 2017, 8, 1120.	1.3	63
57	Influence of red blood cell-derived microparticles upon vasoregulation. Blood Transfusion, 2017, 15, 522-534.	0.3	35
58	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
59	Modulating Vascular Hemodynamics With an Alpha Globin Mimetic Peptide (HbÎ±X). Hypertension, 2016, 68, 1494-1503.	1.3	26
60	Fentanyl and Midazolam Are Ineffective in Reducing Episodic Intracranial Hypertension in Severe Pediatric Traumatic Brain Injury*. Critical Care Medicine, 2016, 44, 809-818.	0.4	28
61	Incidence and Outcomes of Cardiopulmonary Resuscitation in PICUs. Critical Care Medicine, 2016, 44, 798-808.	0.4	165
62	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
63	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
64	Meaning making during parentâ€“physician bereavement meetings after a childâ€™s death.. Health Psychology, 2015, 34, 453-461.	1.3	38
65	Red cell physiology and signaling relevant to the critical care setting. Current Opinion in Pediatrics, 2015, 27, 267-276.	1.0	9
66	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
67	Language Analysis as a Window to Bereaved Parentsâ€™ Emotions During a Parentâ€“Physician Bereavement Meeting. Journal of Language and Social Psychology, 2015, 34, 181-199.	1.2	9
68	Association of Bleeding and Thrombosis With Outcome in Extracorporeal Life Support*. Pediatric Critical Care Medicine, 2015, 16, 167-174.	0.2	192
69	How to Guide Transfusion Decision-Making? That Is the Question*. Pediatric Critical Care Medicine, 2014, 15, 895-896.	0.2	4
70	Citrate Anticoagulation During Continuous Renal Replacement Therapy in Pediatric Critical Care. Pediatric Critical Care Medicine, 2014, 15, 471-485.	0.2	26
71	Role of Transfused Red Blood Cells for Shock and Coagulopathy Within Remote Damage Control Resuscitation. Shock, 2014, 41, 30-34.	1.0	35
72	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

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73	Pediatric Intensive Care Outcomes. Pediatric Critical Care Medicine, 2014, 15, 821-827.	0.2	265
74	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
75	Hematologic Disorders. Oxidative Stress in Applied Basic Research and Clinical Practice, 2014, , 349-369.	0.4	0
76	Analysis of S-nitrosothiols via copper cysteine (2C) and copper cysteine â€“ Carbon monoxide (3C) methods. Methods, 2013, 62, 123-129.	1.9	6
77	Mortality in severe traumatic brain injury â€“ Authors' reply. Lancet Neurology, The, 2013, 12, 427-428.	4.9	0
78	Effect of implementation of a paediatric neurocritical care programme on outcomes after severe traumatic brain injury: a retrospective cohort study. Lancet Neurology, The, 2013, 12, 45-52.	4.9	81
79	The Ideal Time Interval for Critical Care Severity-of-Illness Assessment. Pediatric Critical Care Medicine, 2013, 14, 448-453.	0.2	36
80	Ratio of PICU Versus Ward Cardiopulmonary Resuscitation Events Is Increasing*. Critical Care Medicine, 2013, 41, 2292-2297.	0.4	114
81	Critical Pertussis Illness in Children. Pediatric Critical Care Medicine, 2013, 14, 356-365.	0.2	87
82	Sickle hemoglobin disturbs normal coupling among erythrocyte O2 content, glycolysis, and antioxidant capacity. Blood, 2013, 121, 1651-1662.	0.6	66
83	Effect of Processing and Storage on Red Blood Cell Function In Vivo. Seminars in Perinatology, 2012, 36, 248-259.	1.1	72
84	Neurocritical Care Research Networksâ€"Pediatric Considerations. Neurocritical Care, 2012, 17, 468-469.	1.2	5
85	Evolution of surfactant proteinâ€Ð levels in children with ventilatorâ€ssociated pneumonia. Pediatric Pulmonology, 2012, 47, 292-299.	1.0	16
86	Fatal and Near-Fatal Asthma in Children: The Critical Care Perspective. Journal of Pediatrics, 2012, 161, 214-221.e3.	0.9	67
87	Nitric Oxide during Altitude Acclimatization. New England Journal of Medicine, 2011, 365, 1942-1944.	13.9	51
88	Nitric Oxide Transport in Blood: A Third Gas in the Respiratory Cycle. , 2011, 1, 541-568.		70
89	Does the storage duration of blood products affect outcomes in critically ill patients?. Transfusion, 2011, 51, 1644-1650.	0.8	33
90	Critically Ill Children During the 2009â€"2010 Influenza Pandemic in the United States. Pediatrics, 2011, 128, e1450-e1458.	1.0	203

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91	Direct Regulation of Striated Muscle Myosins by Nitric Oxide and Endogenous Nitrosothiols. PLoS ONE, 2010, 5, e11209.	1.1	56
92	Fresh Goat's Milk for Infants: Myths and Realitiesâ€"A Review. Pediatrics, 2010, 125, e973-e977.	1.0	34
93	Hypoxia limits antioxidant capacity in red blood cells by altering glycolytic pathway dominance. FASEB Journal, 2009, 23, 3159-3170.	0.2	75
94	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
95	Nitrosothiols regulate antioxidant capacity in red blood cells. FASEB Journal, 2009, 23, LB130.	0.2	0
96	SNO-hemoglobin and hypoxic vasodilation. Nature Medicine, 2008, 14, 1009-1009.	15.2	16
97	Transnitrosation Signals Oxyhemoglobin Desaturation. Circulation Research, 2008, 103, 441-443.	2.0	5
98	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
99	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
100	Functional Regulation of T-Type Calcium Channels by S-Nitrosothiols in the Rat Thalamus. Journal of Neurophysiology, 2007, 97, 2712-2721.	0.9	28
101	Genome-Level Longitudinal Expression of Signaling Pathways and Gene Networks in Pediatric Septic Shock. Molecular Medicine, 2007, 13, 495-508.	1.9	114
102	S-Nitrosothiol measurements in biological systems. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 851, 140-151.	1.2	102
103	S-Nitrosothiols signal hypoxia-mimetic vascular pathology. Journal of Clinical Investigation, 2007, 117, 2592-2601.	3.9	145
104	Buffering airway acid decreases exhaled nitricÂoxide in asthma. Journal of Allergy and Clinical Immunology, 2006, 118, 817-822.	1.5	38
105	Detecting physiologic fluctuations in the S-nitrosohemoglobin micropopulation: triiodide versus 3C. Blood, 2006, 108, 3225-3227.	0.6	20
106	S-Nitrosothiol Signaling in Respiratory Biology. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 1186-1193.	2.5	203
107	Extrapulmonary Effects of Inhaled Nitric Oxide: Role of Reversible S-Nitrosylation of Erythrocytic Hemoglobin. Proceedings of the American Thoracic Society, 2006, 3, 153-160.	3.5	72
108	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

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109	Effects of Nitroglycerin on Erythrocyte Rheology and Oxygen Unloading. Circulation, 2006, 113, 2502-2508.	1.6	25
110	S-Nitrosylating Agents: A Novel Class of Compounds That Increase Cystic Fibrosis Transmembrane Conductance Regulator Expression and Maturation in Epithelial Cells. Molecular Pharmacology, 2006, 70, 1435-1442.	1.0	70
111	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
112	Sâ€Nitrosothiol Formation. Methods in Enzymology, 2005, 396, 95-105.	0.4	26
113	Tumor necrosis factor-Î± from resident lung cells is a key initiating factor in pulmonary ischemia-reperfusion injury. Journal of Thoracic and Cardiovascular Surgery, 2004, 127, 541-547.	0.4	43
114	Concentration-dependent effects of endogenous S-nitrosoglutathione on gene regulation by specificity proteins Sp3 and Sp1. Biochemical Journal, 2004, 380, 67-74.	1.7	44
115	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
116	S-Nitrosylation Signaling in Cell Biology. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2003, 3, 253-263.	3.4	176
117	Inhaled prostacyclin for the treatment of pulmonary hypertension after cardiac surgery. Critical Care Medicine, 2002, 30, 2762-2764.	0.4	104
118	High-frequency oscillatory ventilation of the perfluorocarbon-filled lung: Dose-response relationships in an animal model of acute lung injury. Critical Care Medicine, 2001, 29, 847-854.	0.4	33
119	Optimizing intrapulmonary perfluorocarbon distribution: Fluoroscopic comparison of mode of ventilation and body position. Critical Care Medicine, 2001, 29, 601-608.	0.4	8
120	High-frequency oscillatory ventilation of the perfluorocarbon-filled lung: Preliminary results in an animal model of acute lung injury. Critical Care Medicine, 1999, 27, 2500-2507.	0.4	43
121	Pulmonary blood flow distribution during partial liquid ventilation. Journal of Applied Physiology, 1998, 84, 1540-1550.	1.2	57
122	A Methodology to Evaluate Motion of the Unstable Spine During Intubation Techniques. Spine, 1993, 18, 2020-2023.	1.0	64
123	Multiple sclerosis and brain tumor: A diagnostic challenge. Journal of Emergency Medicine, 1989, 7, 241-244.	0.3	29