Jon A Detterich

List of Publications by Year
in descending order

63	874	516710 16	501196 28
papers	citations	h-index	g-index

63	63	63	1091
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The role of blood rheology in sickle cell disease. Blood Reviews, 2016, 30, 111-118.	5.7	142
2	Nitric oxide, vasodilation and the red blood cell. Biorheology, 2014, 51, 121-134.	0.4	84
3	Chronic transfusion therapy improves but does not normalize systemic and pulmonary vasculopathy in sickle cell disease. Blood, 2015, 126, 703-710.	1.4	62
4	Peripheral Vasoconstriction and Abnormal Parasympathetic Response to Sighs and Transient Hypoxia in Sickle Cell Disease. American Journal of Respiratory and Critical Care Medicine, 2011, 184, 474-481.	5.6	55
5	Electrocardiographic consequences of cardiac iron overload in thalassemia major. American Journal of Hematology, 2012, 87, 139-144.	4.1	46
6	Mental stress causes vasoconstriction in subjects with sickle cell disease and in normal controls. Haematologica, 2020, 105, 83-90.	3.5	40
7	Deformability analysis of sickle blood using ektacytometry. Biorheology, 2014, 51, 159-170.	0.4	37
8	Individuals with sickle cell disease have a significantly greater vasoconstriction response to thermal pain than controls and have significant vasoconstriction in response to anticipation of pain. American Journal of Hematology, 2017, 92, 1137-1145.	4.1	30
9	Pulmonary hypertension in well-transfused thalassemia major patients. Blood Cells, Molecules, and Diseases, 2015, 54, 189-194.	1.4	29
10	Biophysical markers of the peripheral vasoconstriction response to pain in sickle cell disease. PLoS ONE, 2017, 12, e0178353.	2.5	29
11	Lowâ€shear red blood cell oxygen transport effectiveness is adversely affected by transfusion and further worsened by deoxygenation in sickle cell disease patients on chronic transfusion therapy. Transfusion, 2013, 53, 297-305.	1.6	28
12	Systemic endothelial dysfunction in children with idiopathic pulmonary arterial hypertension correlates with disease severity. Journal of Heart and Lung Transplantation, 2012, 31, 642-647.	0.6	25
13	Comparison of biventricular dimensions and function between pediatric sickleâ€cell disease and thalassemia major patients without cardiac iron. American Journal of Hematology, 2013, 88, 213-218.	4.1	20
14	Accuracy of a Novel Handheld Wireless Platform for Detection of Cardiac Dysfunction in Anthracycline-Exposed Survivors of Childhood Cancer. Clinical Cancer Research, 2018, 24, 3119-3125.	7.0	20
15	Elevated Low-Shear Blood Viscosity is Associated with Decreased Pulmonary Blood Flow in Children with Univentricular Heart Defects. Pediatric Cardiology, 2016, 37, 789-801.	1.3	18
16	Sickle Cell Disease Subjects Have a Distinct Abnormal Autonomic Phenotype Characterized by Peripheral Vasoconstriction With Blunted Cardiac Response to Head-Up Tilt. Frontiers in Physiology, 2019, 10, 381.	2.8	18
17	Non-invasive biomarkers of Fontan-associated liver disease. JHEP Reports, 2021, 3, 100362.	4.9	16
18	Autonomic responses to cold face stimulation in sickle cell disease: a time-varying model analysis. Physiological Reports, 2015, 3, e12463.	1.7	14

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19	Erythrocyte and plasma oxidative stress appears to be compensated in patients with sickle cell disease during a period of relative health, despite the presence of known oxidative agents. Free Radical Biology and Medicine, 2019, 141, 408-415.	2.9	14
20	Sickle cell microvascular paradoxâ€"oxygen supplyâ€demand mismatch. American Journal of Hematology, 2019, 94, 678-688.	4.1	14
21	Progressive vasoconstriction with sequential thermal stimulation indicates vascular dysautonomia in sickle cell disease. Blood, 2020, 136, 1191-1200.	1.4	14
22	Patients with sickle cell anemia on simple chronic transfusion protocol show sex differences for hemodynamic and hematologic responses to transfusion. Transfusion, 2013, 53, 1059-1068.	1.6	13
23	Loss of alphaâ€globin genes in human subjects is associated with improved nitric oxideâ€mediated vascular perfusion. American Journal of Hematology, 2021, 96, 277-281.	4.1	12
24	Differences in Right Ventricular Physiologic Response to Chronic Volume Load in Patients with Repaired Pulmonary Atresia Intact Ventricular Septum/Critical Pulmonary Stenosis Versus Tetralogy of Fallot. Pediatric Cardiology, 2019, 40, 526-536.	1.3	11
25	Simple chronic transfusion therapy, a crucial therapeutic option for sickle cell disease, improves but does not normalize blood rheology: What should be our goals for transfusion therapy?. Clinical Hemorheology and Microcirculation, 2018, 68, 173-186.	1.7	10
26	Red blood cell mechanical sensitivity improves in patients with sickle cell disease undergoing chronic transfusion after prolonged, subhemolytic shear exposure. Transfusion, 2018, 58, 2788-2796.	1.6	10
27	Tricuspid regurgitant jet velocity and myocardial tissue Doppler parameters predict mortality in a cohort of patients with sickle cell disease spanning from pediatric to adult age groups â€•revisiting this controversial concept after 16â€‰years of additional evidence. American Journal of Hematology, 2021, 96, 31-39.	4.1	10
28	Color M-Mode Sonography for Evaluation of Fetal Arrhythmias. Journal of Ultrasound in Medicine, 2012, 31, 1681-1688.	1.7	9
29	Analysis of light scattering by red blood cells in ektacytometry using global pattern fitting. Biorheology, 2012, 49, 317-328.	0.4	7
30	A novel cross-correlation methodology for assessing biophysical responses associated with pain. Journal of Pain Research, 2018, Volume 11, 2207-2219.	2.0	7
31	Acute Cardiovascular and Hematologic Changes After a Single Transfusion Demonstrate Sex Differences in Chronically Transfused Sickle Cell Anemia Patients. Blood, 2011, 118, 2138-2138.	1.4	6
32	Myocardial fibrosis: the heart of diastole?. Blood, 2017, 130, 104-105.	1.4	4
33	Reduced Forced Vital Capacity and the Number of Chest Wall Surgeries are Associated with Decreased Exercise Capacity in Children with Congenital Heart Disease. Pediatric Cardiology, 2022, 43, 54-61.	1.3	4
34	Kidney iron deposition by R2* is associated with haemolysis and urinary iron. British Journal of Haematology, 2021, 193, 633-636.	2.5	3
35	Individual red blood cell nitric oxide production in sickle cell anemia: Nitric oxide production is increased and sickle shaped cells have unique morphologic change compared to discoid cells. Free Radical Biology and Medicine, 2021, 171, 143-155.	2.9	3
36	Giant Pseudoaneurysm of Reconstructed Right Ventricular Outflow Tract. Annals of Thoracic Surgery, 2015, 100, 734.	1.3	2

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37	Extracardiac Doppler indices predict perinatal mortality in fetuses with Ebstein anomaly and tricuspid valve dysplasia. Prenatal Diagnosis, 2021, 41, 332-340.	2.3	2
38	Sickle Cell Subjects Have a Stronger and Faster Neurally Mediated Vasoconstriction Response to Cold Pain That Correlates with Anxiety Scores. Blood, 2018, 132, 854-854.	1.4	2
39	Loss of Alpha Globin Genes in Human Subjects Is Associated with Improved Nitric Oxide-Mediated Vascular Perfusion. Blood, 2020, 136, 6-7.	1.4	1
40	Decrease in Microvascular Blood Flow in Sickle Cell Anemia Is Triggered by Autonomic Signals and Not Directly by Hypoxia: A New Hypothesis for Sickle Crisis.. Blood, 2009, 114, 1523-1523.	1.4	1
41	Abnormal Red Cell Deformability and Aggregation in Sickle Cell Trait. Blood, 2012, 120, 1001-1001.	1.4	1
42	Abstract 10502: Impact of Norwood Shunt Type on Cardiac Function and Clinical Outcomes in Survivors to Early Adolescence with Hypoplastic Left Heart Syndrome and Other Single Right Ventricular Anomalies: A Report from the Single Ventricle Reconstruction (SVR) III Study. Circulation, 2021, 144, .	1.6	1
43	Electrocardiographic Screening for Cardiac Iron in Thalassemia Major.. Blood, 2007, 110, 2766-2766.	1.4	0
44	Acute Hemodynamic and Vascular Effects of Transfusion in Chronically Transfused Patients with Sickle Cell Anemia.. Blood, 2009, 114, 1516-1516.	1.4	0
45	Transfusion Therapy Decreases Oxygen Transport to Low-Flow Vascular Beds in Sickle Cell Disease.. Blood, 2009, 114, 1518-1518.	1.4	0
46	Elevated Tricuspid Regurgitation Jet Correlates with Decreased Brachial Artery Relaxivity In Sickle Cell Anemia Patients on Chronic Transfusion Therapy.. Blood, 2010, 116, 1645-1645.	1.4	0
47	Blood Flow Response to Cold Face Stimulation Is Blunted In Patients with Sickle Cell Disease. Blood, 2010, 116, 2655-2655.	1.4	0
48	Pulmonary Hypertension Is Uncommon In Well-Transfused Thalassemia Major Patients. Blood, 2010, 116, 4273-4273.	1.4	0
49	In Patients with Sickle Cell Disease on Chronic Transfusion Therapy, Viscosity and Aggregation Are Increased After a Single Transfusion, Negatively Affecting Low Shear Rate Blood Flow. Blood, 2011, 118, 1259-1259.	1.4	0
50	Changes in Regional Oxygenation At the Site of Sickle Cell Vaso-Occlusive Pain. Blood, 2012, 120, 4773-4773.	1.4	0
51	Evaluation of Autonomic Function in Patients with Sickle Cell Disease in Relation to Nighttime Hypoxemia. Blood, 2012, 120, 4764-4764.	1.4	0
52	Autonomic Response to Hypoxia and Isometric Exercise in Sickle Cell Trait Subjects. Blood, 2012, 120, 3241-3241.	1.4	0
53	Change In Flow Mediated Dilation After Transfusion Is Dependent On BMI and Blood Age. Blood, 2013, 122, 3653-3653.	1.4	0
54	Shear-Mediated Erythrocyte Nitric Oxide Production Is Differentially Regulated in Patients with Sickle Cell Disease. Blood, 2016, 128, 1301-1301.	1.4	0

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55	Chronic Transfusion Therapy in Sickle Cell Disease - Effect on Macrovascular Function, Microvascular Function, and Tissue Oxygenation Decreases the Potential for Ischemia. Blood, 2016, 128, 3671-3671.	1.4	0
56	Autonomic and Vascular Dysregulation Enhance Pain-Induced Peripheral Vasoconstriction in Sickle Cell Disease. Blood, 2016, 128, 126-126.	1.4	0
57	Regional Perfusion in Sickle Cell Subjects and Normal Controls Is a Physiological Biomarker of Mental Stress and Fear of Pain. Blood, 2016, 128, 2492-2492.	1.4	0
58	Middle Cerebral Artery Velocities Are Inversely Related to Hemoglobin Levels and Acutely Drop in Response to RBC Transfusion: Implications for Stroke Screening in SCD. Blood, 2018, 132, 2374-2374.	1.4	0
59	Hemolysis and Tricuspid Regurgitation Jet Velocity Predict Mortality in Patients with Sickle Cell Disease. Blood, 2018, 132, 1086-1086.	1.4	0
60	Kidney Iron Deposition By R2* Is Associated with Hemolysis and Urinary Iron. Blood, 2019, 134, 3537-3537.	1.4	0
61	Abstract 14404: The Fontan Udenafil Exercise Longitudinal Trial Subgroup Analysis. Circulation, 2020, 142, .	1.6	0
62	Abstract 16788: Cardiopulmonary Exercise Testing in Pulmonary Atresia With Intact Ventricular Septum. Circulation, 2020, 142, .	1.6	0
63	Abstract 15417: Impact of Udenafil on Vascular Function in Fontan Circulation: Results From the FUEL Trial. Circulation, 2020, 142, .	1.6	0