Ozlem YalÃin

List of Publications by Year
in descending order

61 papers	1,479 citations	361296 20 h-index	330025 37 g-index
62 all docs	62 docs citations	62 times ranked	1664 citing authors

#	Article	IF	Citations
1	The cell-free layer in microvascular blood flow. Biorheology, 2009, 46, 181-189.	1.2	138
2	Time course of hemorheological alterations after heavy anaerobic exercise in untrained human subjects. Journal of Applied Physiology, 2003, 94, 997-1002.	1.2	94
3	Modulation of endothelial nitric oxide synthase expression by red blood cell aggregation. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H222-H229.	1.5	93
4	Exercise-induced oxidative stress affects erythrocytes in sedentary rats but not exercise-trained rats. Journal of Applied Physiology, 2001, 91, 1999-2004.	1.2	91
5	Exercise-induced oxidative stress leads hemolysis in sedentary but not trained humans. Journal of Applied Physiology, 2005, 99, 1434-1441.	1.2	85
6	Shear stress activation of nitric oxide synthase and increased nitric oxide levels in human red blood cells. Nitric Oxide - Biology and Chemistry, 2011, 24, 184-191.	1.2	74
7	Effects of swimming exercise on red blood cell rheology in trained and untrained rats. Journal of Applied Physiology, 2000, 88, 2074-2080.	1.2	59
8	Erythrocyte deformability responses to intermittent and continuous subhemolytic shear stress. Biorheology, 2014, 51, 171-185.	1.2	56
9	Nitric oxide generation by endothelial cells exposed to shear stress in glass tubes perfused with red blood cell suspensions: role of aggregation. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H2098-H2105.	1.5	55
10	Technology Advancements in Blood Coagulation Measurements for Point-of-Care Diagnostic Testing. Frontiers in Bioengineering and Biotechnology, 2019, 7, 395.	2.0	51
11	Effect of antioxidant vitamin treatment on the time course of hematological and hemorheological alterations after an exhausting exercise episode in human subjects. Journal of Applied Physiology, 2005, 98, 1272-1279.	1.2	45
12	Microhemodynamic aberrations created by transfusion of stored blood. Transfusion, 2014, 54, 1015-1027.	0.8	43
13	The Effect of Small Changes in Hematocrit on Nitric Oxide Transport in Arterioles. Antioxidants and Redox Signaling, 2011, 14, 175-185.	2.5	42
14	The Effect of Alcohols on Red Blood Cell Mechanical Properties and Membrane Fluidity Depends on Their Molecular Size. PLoS ONE, 2013, 8, e76579.	1.1	42
15	Graded alterations of RBC aggregation influence in vivo blood flow resistance. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H2644-H2650.	1.5	41
16	Antimicrobial activities of phosphonium containing polynorbornenes. RSC Advances, 2016, 6, 86151-86157.	1.7	35
17	Increased hemoglobin O₂affinity protects during acute hypoxia. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 303, H271-H281.	1.5	33
18	GBT1118, a potent allosteric modifier of hemoglobin O₂affinity, increases tolerance to severe hypoxia in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H381-H391.	1.5	28

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19	In health and in a normoxic environment, V̀‡o2 max is/is not limited primarily by cardiac output and locomotor muscle blood flow. Journal of Applied Physiology, 2006, 100, 2099-2099.	1.2	26
20	A micropillar-based microfluidic viscometer for Newtonian and non-Newtonian fluids. Analytica Chimica Acta, 2020, 1135, 107-115.	2.6	24
21	Erythropoietin-induced rheological changes of rat erythrocytes. British Journal of Haematology, 2000, 110, 82-88.	1.2	21
22	Association between Oxidative Stress, Genetic Factors, and Clinical Severity in Children with Sickle Cell Anemia. Journal of Pediatrics, 2018, 195, 228-235.	0.9	21
23	Implications Enzymatic Degradation of the Endothelial Glycocalyx on the Microvascular Hemodynamics and the Arteriolar Red Cell Free Layer of the Rat Cremaster Muscle. Frontiers in Physiology, 2018, 9, 168.	1.3	19
24	Integration of cardiovascular regulation by the blood/endothelium cellâ€free layer. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2011, 3, 458-470.	6.6	18
25	The Role of Potassium Channels in Relaxant Effect of Levosimendan in Rat Small Mesenteric Arteries. Cardiovascular Drugs and Therapy, 2006, 20, 123-127.	1.3	16
26	Effects of red blood cell aggregation on myocardial hematocrit gradient using two approaches to increase aggregation. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H765-H771.	1.5	16
27	From METS to malaria: RRx-001, a multi-faceted anticancer agent with activity in cerebral malaria. Malaria Journal, 2015, 14, 218.	0.8	15
28	Alterations of erythrocyte rheology and cellular susceptibility in end stage renal disease: Effects of peritoneal dialysis. PLoS ONE, 2017, 12, e0171371.	1.1	13
29	Increased Hemoglobin Oxygen Affinity With 5-Hydroxymethylfurfural Supports Cardiac Function During Severe Hypoxia. Frontiers in Physiology, 2019, 10, 1350.	1.3	13
30	Plasma expander viscosity effects on red cell-free layer thickness after moderate hemodilution. Biorheology, 2011, 48, 277-291.	1.2	12
31	Small-volume resuscitation from hemorrhagic shock with polymerized human serum albumin. American Journal of Emergency Medicine, 2012, 30, 1336-1346.	0.7	12
32	Perfusion pressure and blood flow determine microvascular apparent viscosity. Experimental Physiology, 2015, 100, 977-987.	0.9	12
33	Cardioprotective Effect of Phase 3 Clinical Anticancer Agent, RRx-001, in Doxorubicin-Induced Acute Cardiotoxicity in Mice. Molecular Pharmaceutics, 2019, 16, 2929-2934.	2.3	12
34	Rat red blood cell storage lesions in various additive solutions. Clinical Hemorheology and Microcirculation, 2017, 67, 45-57.	0.9	9
35	Development of a novel shrouded impeller pediatric blood pump. Journal of Artificial Organs, 2018, 21, 142-149.	0.4	9
36	From Experiments to Simulation: Shear-Induced Responses of Red Blood Cells to Different Oxygen Saturation Levels. Frontiers in Physiology, 2019, 10, 1559.	1.3	9

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37	Rotational Thromboelastometry Reveals Distinct Coagulation Profiles for Patients With COVID-19 Depending on Disease Severity. Clinical and Applied Thrombosis/Hemostasis, 2021, 27, 107602962110276.	0.7	9
38	The effect of morphine in rat small mesenteric arteries. Vascular Pharmacology, 2005, 43, 56-61.	1.0	8
39	Sampling time after tourniquet removal affects erythrocyte deformability and aggregation measurements. Clinical Hemorheology and Microcirculation, 2009, 41, 9-15.	0.9	8
40	Acute and long-term effects of hyperbaric oxygen therapy on hemorheological parameters in patients with various disorders. Clinical Hemorheology and Microcirculation, 2016, 62, 79-88.	0.9	8
41	Blood storage alters mechanical stress responses of erythrocytes. Clinical Hemorheology and Microcirculation, 2017, 66, 143-155.	0.9	7
42	Haemodynamic Recovery Properties of the Torsioned Testicular Artery Lumen. Scientific Reports, 2017, 7, 15570.	1.6	7
43	Calcium/protein kinase C signaling mechanisms in shear-induced mechanical responses of red blood cells. Microvascular Research, 2021, 135, 104124.	1.1	7
44	Numerical Model for the Determination of Erythrocyte Mechanical Properties and Wall Shear Stress in vivo From Intravital Microscopy. Frontiers in Physiology, 2020, 10, 1562.	1.3	6
45	Proteomic Analysis of the Role of the Adenylyl Cyclaseâ€“cAMP Pathway in Red Blood Cell Mechanical Responses. Cells, 2022, 11, 1250.	1.8	6
46	Effect of plasma expander viscosity on the cell free layer. Biorheology, 2011, 48, 115-125.	1.2	5
47	Can Rotational Thromboelastometry be a New Predictive Tool for Retinal Vein Occlusion Development?. Current Eye Research, 2019, 44, 406-412.	0.7	4
48	The dependence of cellâ€free layer thickness in arterioles on systemic hematocrit level. FASEB Journal, 2009, 23, 949.7.	0.2	4
49	Imageâ€Based Flow Cytometry and Angleâ€Resolved Light Scattering to Define the Sickling Process. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 488-498.	1.1	3
50	Nitrite may serve as a combination partner and a biomarker for the anti-cancer activity of RRx-001. Biorheology, 2019, 56, 221-235.	1.2	3
51	Differential effects of adenylyl cyclase-protein kinase A cascade on shear-induced changes of sickle cell deformability. Clinical Hemorheology and Microcirculation, 2020, 73, 531-543.	0.9	3
52	A Novel Fragmentation Sensitivity Index Determines the Susceptibility of Red Blood Cells to Mechanical Trauma. Frontiers in Physiology, 2021, 12, 714157.	1.3	2
53	Applications of deep learning to the assessment of red blood cell deformability. Biorheology, 2021, 58, 51-60.	1.2	2
54	Semisynthetic Hybrid Biopolymers for Non-pharmacological Intervention of the Microcirculation. Current Drug Metabolism, 2013, 14, 540-546.	0.7	2

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55	Bringing PRBC to the point of combat injury: are we there yet?. Turkish Journal of Haematology, 2018, 35, 185-191.	0.2	1
56	A Short-Term In Vivo Evaluation of the Istanbul Heart Left Ventricular Assist Device in a Pig Model. Experimental and Clinical Transplantation, 2019, , .	0.2	1
57	Ani Ä°ÅŸitme KaybÄ± (AÄ°K) HastalarÄ±nÄ±n Hemoreolojik Parametrelerinin Ä°ncelenmesi. Aydin Tip FakÃœltesÄ° KlÄ°nÄ°klerÄ° DergÄ°sÄ°, 2020, 3, .	0.5	1
58	A Hematocritâ€Dependent Red Blood Cell Exclusion Zone (â€œNo Fly Zoneâ€) is Present at the Wall of Arterioles. FASEB Journal, 2010, 24, 974.8.	0.2	0
59	Effect of Systemic Hematocrit on Blood Velocity Profiles in Arterioles. FASEB Journal, 2012, 26, 859.3.	0.2	0
60	Implicationsâ€Enzymatic Degradation of the Endothelial Glycocalyx on the Microvascular Hemodynamics and the Arteriolar Red Cell Free Layer of the Rat Cremaster Muscle. FASEB Journal, 2018, 32, lb279.	0.2	0
61	Implications of Systemic Hematocrit on the Radial Distribution of Red Cells in Arterioles. FASEB Journal, 2020, 34, 1-1.	0.2	0