

Nathan J White

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,100
citations

516710

16
h-index

395702

33
g-index

48
all docs

48
docs citations

48
times ranked

1477
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-propelled particles that transport cargo through flowing blood and halt hemorrhage. <i>Science Advances</i> , 2015, 1, e1500379.	10.3	159
2	PolySTAT-modified chitosan gauzes for improved hemostasis in external hemorrhage. <i>Acta Biomaterialia</i> , 2016, 31, 178-185.	8.3	134
3	A synthetic fibrin cross-linking polymer for modulating clot properties and inducing hemostasis. <i>Science Translational Medicine</i> , 2015, 7, 277ra29.	12.4	130
4	Fibrin Clot Structure and Mechanics Associated with Specific Oxidation of Methionine Residues in Fibrinogen. <i>Biophysical Journal</i> , 2012, 103, 2399-2407.	0.5	98
5	Hemorrhagic blood failure. <i>Journal of Trauma and Acute Care Surgery</i> , 2017, 82, S41-S49.	2.1	76
6	TEG Lysis Shutdown Represents Coagulopathy in Bleeding Trauma Patients: Analysis of the PROPPR Cohort. <i>Shock</i> , 2019, 51, 273-283.	2.1	71
7	Mechanisms of trauma-induced coagulopathy. <i>Hematology American Society of Hematology Education Program</i> , 2013, 2013, 660-663.	2.5	47
8	Post-translational oxidative modification of fibrinogen is associated with coagulopathy after traumatic injury. <i>Free Radical Biology and Medicine</i> , 2016, 96, 181-189.	2.9	45
9	Synthetic Strategies for Engineering Intravenous Hemostats. <i>Bioconjugate Chemistry</i> , 2015, 26, 1224-1236.	3.6	35
10	Structural Effects of Methionine Oxidation on Isolated Subdomains of Human Fibrin D and E Regions. <i>PLoS ONE</i> , 2014, 9, e86981.	2.5	33
11	Clot Formation Is Associated With Fibrinogen and Platelet Forces in a Cohort of Severely Injured Emergency Department Trauma Patients. <i>Shock</i> , 2015, 44, 39-44.	2.1	26
12	Platelets retain inducible alpha granule secretion by P-selectin expression but exhibit mechanical dysfunction during trauma-induced coagulopathy. <i>Journal of Thrombosis and Haemostasis</i> , 2019, 17, 771-781.	3.8	24
13	Proteome analysis of mast cell releasates reveals a role for chymase in the regulation of coagulation factor XIIIa levels via proteolytic degradation. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 323-334.	2.9	23
14	Fluid Resuscitation of Uncontrolled Hemorrhage Using a Hemoglobin-Based Oxygen Carrier. <i>Shock</i> , 2013, 39, 210-219.	2.1	19
15	Coagulopathy during cardiac arrest and resuscitation in a swine model of electrically induced ventricular fibrillation. <i>Resuscitation</i> , 2011, 82, 925-931.	3.0	18
16	Peptide valency plays an important role in the activity of a synthetic fibrin-crosslinking polymer. <i>Biomaterials</i> , 2017, 132, 96-104.	11.4	17
17	Thromboelastometric prediction of mortality using the kinetics of clot growth in critically ill septic patients. <i>Blood Coagulation and Fibrinolysis</i> , 2018, 29, 533-539.	1.0	16
18	A Fibrin Cross-linking Polymer Enhances Clot Formation Similar to Factor Concentrates and Tranexamic Acid in an <i>in Vitro</i> Model of Coagulopathy. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 403-408.	5.2	15

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19	Platelets and Fibrinogen: Emerging Complexity in Trauma-Induced Coagulopathy. <i>Seminars in Thrombosis and Hemostasis</i> , 2020, 46, 125-133.	2.7	12
20	A cost-aware framework for the development of AI models for healthcare applications. <i>Nature Biomedical Engineering</i> , 2022, 6, 1384-1398.	22.5	12
21	Fibrinogen Concentrate Improves Survival During Limited Resuscitation of Uncontrolled Hemorrhagic Shock in a Swine Model. <i>Shock</i> , 2014, 42, 456-463.	2.1	10
22	The adhesion of clots in wounds contributes to hemostasis and can be enhanced by coagulation factor XIII. <i>Scientific Reports</i> , 2020, 10, 20116.	3.3	10
23	Effects of malignancy on blood coagulation in septic intensive care patients. <i>Blood Coagulation and Fibrinolysis</i> , 2018, 29, 92-96.	1.0	9
24	Topical tranexamic acid inhibits fibrinolysis more effectively when formulated with self-propelling particles. <i>Journal of Thrombosis and Haemostasis</i> , 2019, 17, 1645-1654.	3.8	9
25	Plasma proteomic profile associated with platelet dysfunction after trauma. <i>Journal of Thrombosis and Haemostasis</i> , 2021, 19, 1666-1675.	3.8	9
26	Optimizing the Polymer Chemistry and Synthesis Method of PolySTAT, an Injectable Hemostat. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 7011-7020.	5.2	7
27	Clot-On-A-Chip: A Microfluidic Device To Study Platelet Aggregation and Contractility Under Shear. <i>Blood</i> , 2013, 122, 2363-2363.	1.4	7
28	Standard and derived rotational thromboelastometry parameters for prediction of disseminated intravascular coagulation in septic patients. <i>Blood Coagulation and Fibrinolysis</i> , 2020, 31, 317-323.	1.0	5
29	Tracking oxidation-induced alterations in fibrin clot formation by NMR-based methods. <i>Scientific Reports</i> , 2021, 11, 15691.	3.3	5
30	Lactate trumps blood pressure for trauma triage. <i>Science Translational Medicine</i> , 2015, 7, .	12.4	5
31	Leukocyte activation primes fibrinogen for proteolysis by mitochondrial oxidative stress. <i>Redox Biology</i> , 2022, 51, 102263.	9.0	5
32	Left Ventricular Function in the Initial Period After Severe Traumatic Brain Injury in Swine. <i>Neurocritical Care</i> , 2022, 37, 200-208.	2.4	4
33	Clot structure predicts recurrent thrombosis. <i>Blood</i> , 2018, 131, 715-716.	1.4	1
34	Improving emergency department blood product use through nursing education. <i>Transfusion</i> , 2020, 60, 1227-1230.	1.6	1
35	<sc>Spray-dried</sc> plasma: A post-traumatic blood bridge for life-saving resuscitation. <i>Transfusion</i> , 2021, 61, S294-S300.	1.6	1
36	Effect of emergency department fibrinogen testing on survival of trauma patients receiving blood transfusions. <i>Blood Coagulation and Fibrinolysis</i> , 2020, 31, 372-376.	1.0	1

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37	A Multifunctional, Low-Volume Resuscitation Cocktail Improves Vital Organ Blood Flow and Hemostasis in a Pig Model of Polytrauma with Traumatic Brain Injury. Journal of Clinical Medicine, 2021, 10, 5484.	2.4	1
38	Coagulopathy In Trauma Patients Is Accompanied By Oxidation Of a Methionine Residue In The Î±C Domain Of Fibrinogen and Abnormal Fibrin Polymerization. Blood, 2013, 122, 1097-1097.	1.4	0
39	Something to Smile About in Stroke?. Science Translational Medicine, 2014, 6, .	12.4	0
40	Machine Learning to the Rescue. Science Translational Medicine, 2014, 6, .	12.4	0
41	A New Biological Nano-Superglue. Science Translational Medicine, 2014, 6, .	12.4	0
42	Fighting Terror with Nanotechnology. Science Translational Medicine, 2014, 6, .	12.4	0
43	Lights, Microscope, Action!. Science Translational Medicine, 2014, 6, .	12.4	0
44	Lessons from the Ketchup Bottle. Science Translational Medicine, 2014, 6, .	12.4	0
45	Time to Get Personal with CPR. Science Translational Medicine, 2014, 6, .	12.4	0
46	Breaking up is bad for the heart. Science Translational Medicine, 2015, 7, .	12.4	0
47	Plasma Proteomic Profile Associated with Platelet Dysfunction after Trauma. Blood, 2020, 136, 9-10.	1.4	0