

Stephanie A Smith Dvm

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

5,826
citations

109321

35
h-index

82547

72
g-index

83
all docs

83
docs citations

83
times ranked

5012
citing authors

#	ARTICLE	IF	CITATIONS
1	Platelet Polyphosphates Are Proinflammatory and Procoagulant Mediators In Vivo. <i>Cell</i> , 2009, 139, 1143-1156.	28.9	710
2	Prothrombotic autoantibodies in serum from patients hospitalized with COVID-19. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	491
3	Polyphosphate modulates blood coagulation and fibrinolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 903-908.	7.1	487
4	Polyphosphate: an ancient molecule that links platelets, coagulation, and inflammation. <i>Blood</i> , 2012, 119, 5972-5979.	1.4	323
5	How it all starts: Initiation of the clotting cascade. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2015, 50, 326-336.	5.2	303
6	Polyphosphate exerts differential effects on blood clotting, depending on polymer size. <i>Blood</i> , 2010, 116, 4353-4359.	1.4	261
7	A role for factor XIIa-mediated factor XI activation in thrombus formation in vivo. <i>Blood</i> , 2010, 116, 3981-3989.	1.4	227
8	Polyphosphate is a cofactor for the activation of factor XI by thrombin. <i>Blood</i> , 2011, 118, 6963-6970.	1.4	209
9	Polyphosphate enhances fibrin clot structure. <i>Blood</i> , 2008, 112, 2810-2816.	1.4	186
10	The cell-based model of coagulation. <i>Journal of Veterinary Emergency and Critical Care</i> , 2009, 19, 3-10.	1.1	177
11	Arterial Thromboembolism in Cats: Acute Crisis in 127 Cases (1992-2001) and Long-Term Management with Low-Dose Aspirin in 24 Cases. <i>Journal of Veterinary Internal Medicine</i> , 2003, 17, 73.	1.6	158
12	Arterial Thromboembolism in Cats: Acute Crisis in 127 Cases (1992-2001) and Long-Term Management with Low-Dose Aspirin in 24 Cases. <i>Journal of Veterinary Internal Medicine</i> , 2003, 17, 73-83.	1.6	146
13	Inhibition of polyphosphate as a novel strategy for preventing thrombosis and inflammation. <i>Blood</i> , 2012, 120, 5103-5110.	1.4	111
14	Viscoelastic coagulation testing: technology, applications, and limitations. <i>Veterinary Clinical Pathology</i> , 2011, 40, 140-153.	0.7	100
15	Correlation of hematocrit, platelet concentration, and plasma coagulation factors with results of thromboelastometry in canine whole blood samples. <i>American Journal of Veterinary Research</i> , 2012, 73, 789-798.	0.6	88
16	Polyphosphate as a general procoagulant agent. <i>Journal of Thrombosis and Haemostasis</i> , 2008, 6, 1750-1756.	3.8	86
17	Sensitive fluorescence detection of polyphosphate in polyacrylamide gels using 4-aminodiaminodiphenylindol. <i>Electrophoresis</i> , 2007, 28, 3461-3465.	2.4	76
18	Factor XII promotes blood coagulation independent of factor XI in the presence of long-chain polyphosphates. <i>Journal of Thrombosis and Haemostasis</i> , 2013, 11, 1341-1352.	3.8	76

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19	Rapid and efficient incorporation of tissue factor into liposomes. <i>Journal of Thrombosis and Haemostasis</i> , 2004, 2, 1155-1162.	3.8	68
20	Phosphoramidate End Labeling of Inorganic Polyphosphates: Facile Manipulation of Polyphosphate for Investigating and Modulating Its Biological Activities. <i>Biochemistry</i> , 2010, 49, 9935-9941.	2.5	66
21	Bacterial polyphosphates interfere with the innate host defense to infection. <i>Nature Communications</i> , 2020, 11, 4035.	12.8	65
22	Polyphosphate in thrombosis, hemostasis, and inflammation. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2019, 3, 18-25.	2.3	63
23	Clot formation in canine whole blood as measured by rotational thromboelastometry is influenced by sample handling and coagulation activator. <i>Blood Coagulation and Fibrinolysis</i> , 2010, 21, 692-702.	1.0	60
24	Polyphosphate is a novel cofactor for regulation of complement by a serpin, C1 inhibitor. <i>Blood</i> , 2016, 128, 1766-1776.	1.4	59
25	Polyphosphate/platelet factor 4 complexes can mediate heparin-independent platelet activation in heparin-induced thrombocytopenia. <i>Blood Advances</i> , 2016, 1, 62-74.	5.2	58
26	Feline arterial thromboembolism: an update. <i>Veterinary Clinics of North America - Small Animal Practice</i> , 2004, 34, 1245-1271.	1.5	56
27	Clotting Activity of Polyphosphate-Functionalized Silica Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4018-4022.	13.8	55
28	Polyphosphate accelerates factor V activation by factor XIa. <i>Thrombosis and Haemostasis</i> , 2015, 113, 599-604.	3.4	54
29	Polyphosphate suppresses complement via the terminal pathway. <i>Blood</i> , 2014, 123, 768-776.	1.4	53
30	The dimeric structure of factor XI and zymogen activation. <i>Blood</i> , 2013, 121, 3962-3969.	1.4	52
31	Polyphosphate. <i>Current Opinion in Hematology</i> , 2014, 21, 388-394.	2.5	50
32	Size-Controlled Synthesis of Granular Polyphosphate Nanoparticles at Physiologic Salt Concentrations for Blood Clotting. <i>Biomacromolecules</i> , 2014, 15, 3976-3984.	5.4	47
33	A Retrospective Study of 19 Cases of Canine Myelofibrosis. <i>Journal of Veterinary Internal Medicine</i> , 2002, 16, 174-178.	1.6	46
34	Microparticles in stored canine RBC concentrates. <i>Veterinary Clinical Pathology</i> , 2013, 42, 163-169.	0.7	44
35	Hemodynamic effects of methylprednisolone acetate administration in cats. <i>American Journal of Veterinary Research</i> , 2006, 67, 583-587.	0.6	37
36	Phospholipid composition controls thromboplastin sensitivity to individual clotting factors. <i>Journal of Thrombosis and Haemostasis</i> , 2006, 4, 820-827.	3.8	35

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37	Cytokine concentration in stored canine erythrocyte concentrates. <i>Journal of Veterinary Emergency and Critical Care</i> , 2014, 24, 259-263.	1.1	35
38	Inorganic polyphosphate interacts with nucleolar and glycosomal proteins in trypanosomatids. <i>Molecular Microbiology</i> , 2018, 110, 973-994.	2.5	35
39	Antithrombotic Therapy. <i>Topics in Companion Animal Medicine</i> , 2012, 27, 88-94.	0.9	33
40	Factor VII and Protein C Are Phosphatidic Acid-Binding Proteins. <i>Biochemistry</i> , 2013, 52, 5545-5552.	2.5	33
41	In-vitro hypocoagulability on whole blood thromboelastometry associated with in-vivo expansion of red cell mass in an equine model. <i>Blood Coagulation and Fibrinolysis</i> , 2011, 22, 424-430.	1.0	32
42	Polyphosphate and RNA Differentially Modulate the Contact Pathway of Blood Clotting. <i>Journal of Biological Chemistry</i> , 2017, 292, 1808-1814.	3.4	31
43	Factor XII Activation Promotes Platelet Consumption in the Presence of Bacterial-Type Long-Chain Polyphosphate In Vitro and In Vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 1748-1760.	2.4	30
44	Colloidal Confinement of Polyphosphate on Gold Nanoparticles Robustly Activates the Contact Pathway of Blood Coagulation. <i>Bioconjugate Chemistry</i> , 2016, 27, 102-109.	3.6	29
45	Primary Myelodysplastic Syndromes of Dogs: A Report of 12 Cases. <i>Journal of Veterinary Internal Medicine</i> , 2000, 14, 491-494.	1.6	26
46	In vitro hypercoagulability on whole blood thromboelastometry associated with in vivo reduction of circulating red cell mass in dogs. <i>Veterinary Clinical Pathology</i> , 2014, 43, 154-163.	0.7	26
47	Platelet-Derived Short-Chain Polyphosphates Enhance the Inactivation of Tissue Factor Pathway Inhibitor by Activated Coagulation Factor XI. <i>PLoS ONE</i> , 2016, 11, e0165172.	2.5	26
48	Artificial Dense Granules: A Procoagulant Liposomal Formulation Modeled after Platelet Polyphosphate Storage Pools. <i>Biomacromolecules</i> , 2016, 17, 2572-2581.	5.4	25
49	Silica particles contribute to the procoagulant activity of DNA and polyphosphate isolated using commercial kits. <i>Blood</i> , 2017, 130, 88-91.	1.4	23
50	Endothelium-protective, histone-neutralizing properties of the polyanionic agent defibrotide. <i>JCI Insight</i> , 2021, 6, .	5.0	23
51	Evaluation of effects of low-dose aspirin administration on urinary thromboxane metabolites in healthy dogs. <i>American Journal of Veterinary Research</i> , 2011, 72, 1038-1045.	0.6	19
52	Polyphosphate, Zn ²⁺ and high molecular weight kininogen modulate individual reactions of the contact pathway of blood clotting. <i>Journal of Thrombosis and Haemostasis</i> , 2019, 17, 2131-2140.	3.8	19
53	Heparin is procoagulant in the absence of antithrombin. <i>Thrombosis and Haemostasis</i> , 2008, 100, 160-162.	3.4	18
54	Systematic evaluation of evidence on veterinary viscoelastic testing Part 1: System comparability. <i>Journal of Veterinary Emergency and Critical Care</i> , 2014, 24, 23-29.	1.1	17

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55	Platelet polyphosphate induces fibroblast chemotaxis and myofibroblast differentiation. <i>Journal of Thrombosis and Haemostasis</i> , 2020, 18, 3043-3052.	3.8	16
56	Ability of Polyphosphate and Nucleic Acids to Trigger Blood Clotting: Some Observations and Caveats. <i>Frontiers in Medicine</i> , 2018, 5, 107.	2.6	15
57	2013 Scientific Sessions Sol Sherry Distinguished Lecture in Thrombosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1298-1305.	2.4	14
58	Localization of Short-Chain Polyphosphate Enhances its Ability to Clot Flowing Blood Plasma. <i>Scientific Reports</i> , 2017, 7, 42119.	3.3	12
59	DNA ladders can be used to size polyphosphate resolved by polyacrylamide gel electrophoresis. <i>Electrophoresis</i> , 2018, 39, 2454-2459.	2.4	12
60	Differential Roles for the Coagulation Factors XI and XII in Regulating the Physical Biology of Fibrin. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1328-1340.	2.5	11
61	Biotechnological synthesis of water-soluble food-grade polyphosphate with <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2020, 117, 2089-2099.	3.3	11
62	Evaluation of assays for quantification of DNA in canine plasma as an indirect marker of NETosis. <i>Veterinary Clinical Pathology</i> , 2017, 46, 278-286.	0.7	9
63	Procoagulant phospholipid concentration in canine erythrocyte concentrates stored with or without prestorage leukoreduction. <i>American Journal of Veterinary Research</i> , 2015, 76, 35-41.	0.6	8
64	Neutrophil extracellular traps in stored canine red blood cell units. <i>Journal of Veterinary Internal Medicine</i> , 2020, 34, 1894-1902.	1.6	8
65	Assessment of acute moderate hyperglycemia on traditional and thromboelastometry coagulation parameters in healthy adult horses. <i>Journal of Veterinary Emergency and Critical Care</i> , 2012, 22, 550-557.	1.1	7
66	Iron metabolism following intravenous transfusion with stored versus fresh autologous erythrocyte concentrate in healthy dogs. <i>American Journal of Veterinary Research</i> , 2015, 76, 996-1004.	0.6	7
67	Thrombin generation abnormalities in commonly encountered platelet function disorders. <i>International Journal of Laboratory Hematology</i> , 2021, 43, 1557-1565.	1.3	7
68	Evaluation of contact activation of citrated equine whole blood during storage and effects of contact activation on results of recalcification-initiated thromboelastometry. <i>American Journal of Veterinary Research</i> , 2015, 76, 122-128.	0.6	6
69	Diversification of polyphosphate end-labeling via bridging molecules. <i>PLoS ONE</i> , 2020, 15, e0237849.	2.5	4
70	Influence of Steric Shield on Biocompatibility and Antithrombotic Activity of Dendritic Polyphosphate Inhibitor. <i>Molecular Pharmaceutics</i> , 2022, 19, 1853-1865.	4.6	3
71	Interactions Between Platelets and the Coagulation System. , 2019, , 393-400.		2
72	FXII Promotes Coagulation in a FXI and FIX Independent Manner. <i>Blood</i> , 2012, 120, 3362-3362.	1.4	1

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73	Miscellaneous Endocrine Disorders. , 2008, , 488-496.		0
74	Concentrations of thromboxane metabolites in feline urine. American Journal of Veterinary Research, 2016, 77, 1340-1345.	0.6	0
75	Properties of Recombinant Human Thromboplastin that Determine Sensitivity to Vitamin K-Dependent Coagulation Factors.. Blood, 2004, 104, 533-533.	1.4	0
76	Do Elevated Plasma Tissue Factor Pathway Inhibitor (TFPI) Levels Affect Measurement of Factor VIIa?.. Blood, 2004, 104, 1948-1948.	1.4	0
77	Thromboembolic Disease: Diagnosis and Treatment. , 2006, , 553-563.		0
78	Size Matters: Differential Effects of RNA and Polyphosphate on Blood Clotting. Blood, 2008, 112, 3074-3074.	1.4	0
79	The Interaction of Coagulation Factor XI with Polyphosphate. Blood, 2012, 120, 498-498.	1.4	0
80	Thrombin-Stimulated Platelets Have Functional Binding Sites For Factor VIIIa That Are Distinct From Phosphatidylserine. Blood, 2013, 122, 3582-3582.	1.4	0
81	Inorganic Polyphosphate in Blood Coagulation. , 2016, , 159-176.		0