Colin Longstaff

List of Publications by Year
in descending order

102	3,155	159585 30	175258 52
papers	citations	h-index	g-index

102	102	102	2978
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanical Stability and Fibrinolytic Resistance of Clots Containing Fibrin, DNA, and Histones. Journal of Biological Chemistry, 2013, 288, 6946-6956.	3.4	216
2	Basic mechanisms and regulation of fibrinolysis. Journal of Thrombosis and Haemostasis, 2015, 13, S98-S105.	3.8	161
3	DNA, histones and neutrophil extracellular traps exert anti-fibrinolytic effects in a plasma environment. Thrombosis and Haemostasis, 2015, 113, 1289-1298.	3.4	128
4	The interplay between tissue plasminogen activator domains and fibrin structures in the regulation of fibrinolysis: kinetic and microscopic studies. Blood, 2011, 117, 661-668.	1.4	118
5	Deprotonation of the Schiff base of rhodopsin is obligate in the activation of the G protein.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 4209-4213.	7.1	116
6	Measuring fibrinolysis: from research to routine diagnostic assays. Journal of Thrombosis and Haemostasis, 2018, 16, 652-662.	3.8	113
7	Lytic Resistance of Fibrin Containing Red Blood Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2306-2313.	2.4	112
8	Inhibition of cell surface mediated plasminogen activation by a monoclonal antibody against Î±-Enolase. American Journal of Hematology, 2003, 72, 234-242.	4.1	96
9	Recombinant chymotrypsin inhibitor 2: expression, kinetic analysis of inhibition with .alpha.-chymotrypsin and wild-type and mutant subtilisin BPN', and protein engineering to investigate inhibitory specificity and mechanism. Biochemistry, 1990, 29, 7339-7347.	2.5	92
10	Hindered dissolution of fibrin formed under mechanical stress. Journal of Thrombosis and Haemostasis, 2011, 9, 979-986.	3.8	92
11	Serpin-serine protease binding kinetics: .alpha.2-antiplasmin as a model inhibitor. Biochemistry, 1991, 30, 979-986.	2.5	88
12	Bleeding related to disturbed fibrinolysis. British Journal of Haematology, 2016, 175, 12-23.	2.5	83
13	Studies on the mechanisms of action of aprotinin and tranexamic acid as plasmin inhibitors and antifibrinolytic agents. Blood Coagulation and Fibrinolysis, 1994, 5, 537-42.	1.0	73
14	Regulation of fibrinolysis by Câ€terminal lysines operates through plasminogen and plasmin but not tissueâ€type plasminogen activator. Journal of Thrombosis and Haemostasis, 2012, 10, 2354-2360.	3.8	70
15	An activated-platelet-sensitive nanocarrier enables targeted delivery of tissue plasminogen activator for effective thrombolytic therapy. Journal of Controlled Release, 2019, 300, 1-12.	9.9	61
16	Harmonisation of D-dimer â€" A call for action. Thrombosis Research, 2016, 137, 219-220.	1.7	56
17	The regulation by fibrinogen and fibrin of tissue plasminogen activator kinetics and inhibition by plasminogen activator inhibitor 1. Journal of Thrombosis and Haemostasis, 2007, 5, 804-811.	3.8	51
18	The need for accurate Dâ€dimer reporting in COVIDâ€19: Communication from the ISTH SSC on fibrinolysis. Journal of Thrombosis and Haemostasis, 2020, 18, 2408-2411.	3.8	49

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19	Characterization of recombinant C1 inhibitor P1 variants.. Journal of Biological Chemistry, 1992, 267, 7013-7020.	3.4	45
20	Interactions of the Type III Secretion Pathway Proteins LcrV and LcrG from Yersinia pestis Are Mediated by Coiled-Coil Domains. Journal of Biological Chemistry, 2002, 277, 38714-38722.	3.4	44
21	Characterization of Cell-Associated Plasminogen Activation Catalyzed by Urokinase-Type Plasminogen Activator, but Independent of Urokinase Receptor (uPAR, CD87). Blood, 1999, 93, 3839-3846.	1.4	43
22	Kinetics of the Inhibition of Fusarium Serine Proteinases by Barley (Hordeum vulgare L.) Inhibitors. Journal of Agricultural and Food Chemistry, 2007, 55, 2736-2742.	5.2	43
23	Neutralisation of the anti-coagulant effects of heparin by histones in blood plasma and purified systems. Thrombosis and Haemostasis, 2016, 115, 591-599.	3.4	43
24	How do we assure the quality of biological medicines?. Drug Discovery Today, 2009, 14, 50-55.	6.4	42
25	Development of Shiny app tools to simplify and standardize the analysis of hemostasis assay data: communication from the SSC of the ISTH. Journal of Thrombosis and Haemostasis, 2017, 15, 1044-1046.	3.8	42
26	A proposed reference method for plasminogen activators that enables calculation of enzyme activities in SI units. Journal of Thrombosis and Haemostasis, 2004, 2, 1416-1421.	3.8	41
27	Kallikrein directly interacts with and activates Factor IX, resulting in thrombin generation and fibrin formation independent of Factor XI. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	38
28	Negative ion fast atom bombardment mass spectrometry.In situreactions of boronic acids with triols and related compounds, sugars and nucleosides. Biomedical Mass Spectrometry, 1983, 10, 512-527.	1.9	37
29	DC-SIGN Increases the Affinity of HIV-1 Envelope Glycoprotein Interaction with CD4. PLoS ONE, 2011, 6, e28307.	2.5	34
30	Fibrinogen-mimicking, multiarm nanovesicles for human thrombus-specific delivery of tissue plasminogen activator and targeted thrombolytic therapy. Science Advances, 2021, 7, .	10.3	33
31	Kinetics of plasmin activation of single chain urinary-type plasminogen activator (scu-PA) and demonstration of a high affinity interaction between scu-PA and plasminogen.. Journal of Biological Chemistry, 1992, 267, 173-179.	3.4	32
32	Understanding the enzymology of fibrinolysis and improving thrombolytic therapy. FEBS Letters, 2005, 579, 3303-3309.	2.8	30
33	Fibrin Binding and the Regulation of Plasminogen Activators during Thrombolytic Therapy. Cardiovascular and Hematological Agents in Medicinal Chemistry, 2008, 6, 212-223.	1.0	30
34	Extracellular Histones Inhibit Fibrinolysis through Noncovalent and Covalent Interactions with Fibrin. Thrombosis and Haemostasis, 2021, 121, 464-476.	3.4	30
35	Heparin binding affinity of normal and genetically modified antithrombin III measured using a monoclonal antibody to the heparin binding site of antithrombin III. Biochemistry, 1993, 32, 7286-7293.	2.5	29
36	Regulation of Tissue Plasminogen Activator Activity by Cells. Journal of Biological Chemistry, 1999, 274, 12414-12422.	3.4	29

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37	Kinetics of plasmin activation of single chain urinary-type plasminogen activator (scu-PA) and demonstration of a high affinity interaction between scu-PA and plasminogen. Journal of Biological Chemistry, 1992, 267, 173-9.	3.4	28
38	Methylation of the active-site lysine of rhodopsin. Biochemistry, 1985, 24, 8137-8145.	2.5	26
39	Fragmentation of Therapeutic Human Immunoglobulin Preparations. Vox Sanguinis, 1995, 69, 183-194.	1.5	26
40	Fibrinolysis at the Fluid-Solid Interface of Thrombi. Current Medicinal Chemistry Cardiovascular and Hematological Agents, 2005, 3, 341-355.	1.7	25
41	Derivatization and mass spectrometric investigations of substituted benzeneboronic acids. The use of linked scanning during gas chromatography mass spectrometry. Organic Mass Spectrometry, 1982, 17, 508-518.	1.3	23
42	Differences between neonates and adults in carbohydrate sequences and reaction kinetics of plasmin and Î±2â€antiplasmin. Thrombosis Research, 2002, 105, 247-256.	1.7	23
43	Increased urokinase and consumption of Î±2â€antiplasmin as an explanation for the loss of benefit of tranexamic acid after treatment delay. Journal of Thrombosis and Haemostasis, 2019, 17, 195-205.	3.8	23
44	Fibrinogen protects neutrophils from the cytotoxic effects of histones and delays neutrophil extracellular trap formation induced by ionomycin. Scientific Reports, 2020, 10, 11694.	3.3	23
45	A reunification of the US (â€œNIHâ€) and International Unit into a single standard for Thrombin. Thrombosis and Haemostasis, 2005, 93, 261-266.	3.4	21
46	Mechanism of plasmin generation by S100A10. Thrombosis and Haemostasis, 2017, 117, 1058-1071.	3.4	21
47	Deprotonation of the Schiff base of bacteriorhodopsin is obligate in light-induced proton pumping. Biochemistry, 1987, 26, 6107-6113.	2.5	19
48	International collaborative study to establish the 3rd International Standard for Streptokinase. Journal of Thrombosis and Haemostasis, 2004, 2, 1411-1415.	3.8	19
49	Fourier transform infrared studies of active-site-methylated rhodopsin. Implications for chromophore-protein interaction, transducin activation, and the reaction pathway. Biophysical Journal, 1991, 59, 640-644.	0.5	18
50	Applying the science of measurement to biology: Why bother?. PLoS Biology, 2019, 17, e3000338.	5.6	18
51	An International Collaborative Study to Investigate Standardisation of Hirudin Potency. Thrombosis and Haemostasis, 1993, 69, 430-435.	3.4	18
52	Inhibition of thrombin generation by heparin and LMW heparins. Blood Coagulation and Fibrinolysis, 1996, 7, 24-30.	1.0	15
53	Lytic and mechanical stability of clots composed of fibrin and blood vessel wall components. Journal of Thrombosis and Haemostasis, 2013, 11, 529-538.	3.8	15
54	Ambivalent roles of carboxypeptidase B in the lytic susceptibility of fibrin. Thrombosis Research, 2014, 133, 80-87.	1.7	15

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55	Mathematical Modelling of Intravenous Thrombolysis in Acute Ischaemic stroke: Effects of Dose Regimens on Levels of Fibrinolytic Proteins and Clot Lysis Time. Pharmaceutics, 2019, 11, 111.	4.5	15
56	Differences Between Neonates and Adults in Tissue-Type-Plasminogen Activator (t-PA)-Catalyzed Plasminogen Activation With Various Effectors and in Carbohydrate Sequences of Fibrinogen Chains. Thrombosis Research, 2001, 103, 173-184.	1.7	14
57	Phospholipid Barrier to Fibrinolysis. Journal of Biological Chemistry, 2004, 279, 39863-39871.	3.4	14
58	The poor quality of streptokinase products in use in developing countries. Journal of Thrombosis and Haemostasis, 2005, 3, 1092-1093.	3.8	14
59	Release of proteolytic activity following reduction in therapeutic human serum albumin containing products: Detection with a new neoepitope endopeptidase immunoassay. Journal of Pharmaceutical and Biomedical Analysis, 2011, 54, 74-80.	2.8	14
60	PHOTOCHEMISTRY OF METHYLATED RHODOPSINS. Photochemistry and Photobiology, 1988, 48, 493-496.	2.5	13
61	A Collaborative Study to Establish the 3rd International Standard for Tissue Plasminogen Activator. Thrombosis and Haemostasis, 2002, 88, 294-297.	3.4	13
62	Activity Regulation by Fibrinogen and Fibrin of Streptokinase from Streptococcus Pyogenes. PLoS ONE, 2017, 12, e0170936.	2.5	13
63	Is it possible to make a common reference standard for Dâ€dimer measurements? Communication from the ISTH SSC Subcommittee on Fibrinolysis. Journal of Thrombosis and Haemostasis, 2022, 20, 498-507.	3.8	13
64	Chemical modification of rhodopsin and its effect on regeneration and G protein activation. Biochemistry, 1986, 25, 6311-6319.	2.5	12
65	A comparison of cultured cells with other promoters of tissue plasminogen activator kinetics. Fibrinolysis, 1995, 9, 178-187.	0.5	11
66	Fractal Kinetic Behavior of Plasmin on the Surface of Fibrin Meshwork. Biochemistry, 2014, 53, 6348-6356.	2.5	11
67	The photoreaction of active-site-methylated bacteriorhodopsin: an investigation using static and time-resolved infrared difference spectroscopy. Biochemistry, 1990, 29, 3915-3923.	2.5	10
68	Studies on the mechanism of binding of serpins and serine proteases. Blood Coagulation and Fibrinolysis, 1992, 3, 89-98.	1.0	10
69	Computational simulations of thrombolysis in acute stroke: Effect of clot size and location on recanalisation. Medical Engineering and Physics, 2019, 73, 9-17.	1.7	10
70	Fibrinolysis in a lipid environment: modulation through release of free fatty acids. Journal of Thrombosis and Haemostasis, 2007, 5, 1265-1273.	3.8	9
71	An international collaborative study to establish the WHO 1st international standards for C1â€inhibitor, plasma and concentrate. Journal of Thrombosis and Haemostasis, 2011, 9, 2097-2099.	3.8	9
72	Biosimilars: the process is the product. The example of recombinant streptokinase. Journal of Thrombosis and Haemostasis, 2014, 12, 1229-1233.	3.8	9

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73	Sizeâ€•and chargeâ€•dependent modulation of the lytic susceptibility and mechanical stability of fibrinâ€•histone clots by heparin and polyphosphate variants. Journal of Thrombosis and Haemostasis, 2021, 19, 1307-1318.	3.8	9
74	Gas chromatography of aromatic boronic acids: on-column derivatization. Journal of Chromatography A, 1982, 249, 174-179.	3.7	8
75	Kinetic regulation of the binding of prothrombin to phospholipid membranes. Molecular and Cellular Biochemistry, 2013, 382, 193-201.	3.1	8
76	Biorelevant polyanions stabilize fibrin against mechanical and proteolytic decomposition: Effects of polymer size and electric charge. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 102, 103459.	3.1	8
77	Citrullinated Fibrinogen Renders Clots Mechanically Less Stable, but Lysis-Resistant. Circulation Research, 2021, 129, 342-344.	4.5	8
78	An international collaborative study to investigate standardisation of hirudin potency. Thrombosis and Haemostasis, 1993, 69, 430-5.	3.4	8
79	Plasminogen activation on the cell surface. Frontiers in Bioscience - Landmark, 2002, 7, d244.	3.0	7
80	An international collaborative study to investigate a proposed reference method for the determination of potency measurements of fibrinolytics in absolute units. Journal of Thrombosis and Haemostasis, 2007, 5, 412-414.	3.8	7
81	Photochemistry of monomethylated and permethylated bacteriorhodopsin. Biophysical Journal, 1988, 54, 557-562.	0.5	6
82	Selective Stabilization and Destabilization of Protein Domains in Tissue-Type Plasminogen Activator Using Formulation Excipients. Molecular Pharmaceutics, 2019, 16, 744-755.	4.6	6
83	Measuring Fibrinolysis. Hamostaseologie, 2021, 41, 069-075.	1.9	6
84	Plasminogen activation on the cell surface. Frontiers in Bioscience - Landmark, 2002, 7, d244-255.	3.0	5
85	An international collaborative study to establish the WHO 1st international standard for alphaâ€1â€antitrypsin. Vox Sanguinis, 2011, 101, 83-89.	1.5	5
86	APPLICATIONS OF IMMOBILISED BORONIC ACIDS. , 1983, , 433-443.		5
87	A collaborative study to establish the 3rd International Standard for tissue plasminogen activator. Thrombosis and Haemostasis, 2002, 88, 294-7.	3.4	5
88	An international collaborative study to replace the 1st international standard for prekallikrein activator. Vox Sanguinis, 2005, 88, 143-151.	1.5	4
89	An international collaborative study to calibrate the WHO 2nd International Standard for Ancrod (15/106) and the WHO Reference Reagent for Batroxobin (15/140): communication from the SSC of the ISTH. Journal of Thrombosis and Haemostasis, 2018, 16, 1003-1006.	3.8	4
90	Regulatory frameworks in developing countries. Nature Biotechnology, 2005, 23, 413-413.	17.5	3

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91	How treatment delay may lead to loss of effectiveness of tranexamic acid. ANZ Journal of Surgery, 2020, 90, 416-418.	0.7	3
92	An international collaborative study to establish the WHO 4th International Standard for Streptokinase: Communication from the SSC of the ISTH. Journal of Thrombosis and Haemostasis, 2020, 18, 1501-1505.	3.8	3
93	Commentary: Biological standardisation in haemostasis and haematology. Biologicals, 2010, 38, 421-422.	1.4	2
94	An International Collaborative Study to establish the WHO 2nd International Standard for High Molecular Weight Urokinase: communication from SSC of the ISTH. Journal of Thrombosis and Haemostasis, 2014, 12, 415-417.	3.8	2
95	Characterization of Cell-Associated Plasminogen Activation Catalyzed by Urokinase-Type Plasminogen Activator, but Independent of Urokinase Receptor (uPAR, CD87). Blood, 1999, 93, 3839-3846.	1.4	2
96	An International Collaborative Study to establish the World Health Organization 4th International Standard for Plasmin (13/206): communication from the SSC of the ISTH. Journal of Thrombosis and Haemostasis, 2016, 14, 215-218.	3.8	1
97	ID: 122 Regulation of tPA activation and inhibition kinetics by fibrin and fibrinogen. Journal of Thrombosis and Haemostasis, 2006, 4, 218-218.	3.8	0
98	ID: 126 Computer models of fibrinolysis. Journal of Thrombosis and Haemostasis, 2006, 4, 219-219.	3.8	0
99	Calibration of the WHO 1st International Standard and SSC/ISTH Secondary Coagulation Standard for Tissue Plasminogen Activator Antigen in Plasma. Journal of Thrombosis and Haemostasis, 2010, 8, 1855-1857.	3.8	0
100	Development of an updated assay for prekallikrein activator in albumin and immunoglobulin therapeutics. Vox Sanguinis, 2021, 116, 99-105.	1.5	0
101	An international collaborative study to establish the WHO 3rd International Standard for Thrombin: Communication from the ISTH SSC subcommittee on factor XIII and fibrinogen. Journal of Thrombosis and Haemostasis, 2021, 19, 852-858.	3.8	0
102	Functional Consequences of Differences in Carbohydrate Sequences of Fetal and Adult Plasminogen and Fibrinogen. , 2001, , 86-101.		0