Alireza R Rezaie

List of Publications by Year
in descending order

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113 papers	4,036 citations	87888 38 h-index	133252 59 g-index
113 all docs	113 docs citations	113 times ranked	5106 citing authors

#	Article	IF	Citations
1	Antithrombin protects againstPlasmodium falciparumhistidine-rich protein II-mediated inflammation and coagulation. Blood Advances, 2022, 6, 931-945.	5.2	2
2	Activated Protein C Strengthens Cardiac Tolerance to Ischemic Insults in Aging. Circulation Research, 2022, 130, 252-272.	4.5	11
3	Thrombomodulin is essential for maintaining quiescence in vascular endothelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	28
4	Protective Role of Activated Protein C against Viral Mimetic Poly(I:C)-Induced Inflammation. Thrombosis and Haemostasis, 2021, 121, 1448-1463.	3.4	8
5	Role of Gly197 in the structure and function of protein C. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129892.	2.4	1
6	Antithrombin Resistance Rescues Clotting Defect of Homozygous Prothrombin-Y510N Dysprothrombinemia. Thrombosis and Haemostasis, 2021, , .	3.4	0
7	L-SIGN is a receptor on liver sinusoidal endothelial cells for SARS-CoV-2 virus. JCI Insight, 2021, 6, .	5.0	31
8	Extracellular Histones Bind Vascular Glycosaminoglycans and Inhibit the Anti-Inflammatory Function of Antithrombin.. Cellular Physiology and Biochemistry, 2021, 55, 605-617.	1.6	9
9	Plasmodium falciparum histidine rich protein HRPII inhibits the antiâ€inflammatory function of antithrombin. Journal of Thrombosis and Haemostasis, 2020, 18, 1473-1483.	3.8	9
10	Podocyte Integrin-Î² 3 and Activated Protein C Coordinately Restrict RhoA Signaling and Ameliorate Diabetic Nephropathy. Journal of the American Society of Nephrology: JASN, 2020, 31, 1762-1780.	6.1	14
11	Anticoagulant and signaling functions of antithrombin. Journal of Thrombosis and Haemostasis, 2020, 18, 3142-3153.	3.8	59
12	Ile73Asn mutation in protein C introduces a new N-linked glycosylation site on the first EGF-domain of protein C and causes thrombosis. Haematologica, 2020, 105, 1712-1722.	3.5	8
13	PKC (Protein Kinase C)-Î´ Modulates AT (Antithrombin) Signaling in Vascular Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1748-1762.	2.4	8
14	Antithrombin: An anticoagulant, antiâ€inflammatory and antibacterial serpin. Journal of Thrombosis and Haemostasis, 2020, 18, 528-533.	3.8	15
15	Gly197Arg mutation in protein C causes recurrent thrombosis in a heterozygous carrier. Journal of Thrombosis and Haemostasis, 2020, 18, 1141-1153.	3.8	5
16	Thr90Ser Mutation in Antithrombin is Associated with Recurrent Thrombosis in a Heterozygous Carrier. Thrombosis and Haemostasis, 2020, 120, 1045-1055.	3.4	5
17	Analysis of protein missense alterations by combining sequenceâ€and structureâ€based methods. Molecular Genetics & Genomic Medicine, 2020, 8, e1166.	1.2	25
18	Thrombomodulin Regulation of Mitogen-Activated Protein Kinases. International Journal of Molecular Sciences, 2019, 20, 1851.	4.1	11

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19	The Cardioprotective Signaling Activity of Activated Protein C in Heart Failure and Ischemic Heart Diseases. International Journal of Molecular Sciences, 2019, 20, 1762.	4.1	13
20	Activated proteinÂC inhibits lipopolysaccharideâ€mediated acetylation and secretion of highâ€mobility group boxÂ1 in endothelial cells. Journal of Thrombosis and Haemostasis, 2019, 17, 803-817.	3.8	17
21	Activated protein C protects against pressure overload-induced hypertrophy through AMPK signaling. Biochemical and Biophysical Research Communications, 2018, 495, 2584-2594.	2.1	13
22	TR47, a PAR1-based peptide, inhibits melanoma cell migration inÂvitro and metastasis inÂvivo. Biochemical and Biophysical Research Communications, 2018, 495, 1300-1304.	2.1	7
23	Expression and functional characterization of two natural heparinâ€binding site variants of antithrombin. Journal of Thrombosis and Haemostasis, 2018, 16, 330-341.	3.8	7
24	Inorganic Polyphosphate Amplifies High Mobility Group Box 1â€“Mediated Von Willebrand Factor Release and Platelet String Formation on Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 1868-1877.	2.4	25
25	Vascular inflammation in aging. Aging, 2018, 10, 3634-3635.	3.1	4
26	Whole Exome Sequencing and Extended Thrombophilia Testing in Patients with Venous Thromboembolism. Blood, 2018, 132, 2506-2506.	1.4	6
27	Activated Protein C Attenuates Severe Inflammation by Targeting VLA-3high Neutrophil Subpopulation in Mice. Journal of Immunology, 2017, 199, 2930-2936.	0.8	6
28	Characterization of Protein Z-Dependent Protease Inhibitor/Antithrombin Chimeras Provides Insight into the Serpin Specificity of Coagulation Proteases. ACS Omega, 2017, 2, 3276-3283.	3.5	0
29	Gly74Ser mutation in protein C causes thrombosis due to a defect in protein S-dependent anticoagulant function. Thrombosis and Haemostasis, 2017, 117, 1358-1369.	3.4	8
30	Whole-exome sequencing in evaluation of patients with venous thromboembolism. Blood Advances, 2017, 1, 1224-1237.	5.2	55
31	Paradoxical bleeding and thrombotic episodes of dysprothrombinaemia due to a homozygous Arg382His mutation. Thrombosis and Haemostasis, 2017, 117, 479-490.	3.4	11
32	Activated protein C protects against renal ischaemia/reperfusion injury, independent of its anticoagulant properties. Thrombosis and Haemostasis, 2016, 116, 124-133.	3.4	9
33	Occupancy of human EPCR by protein C induces Î²-arrestin-2 biased PAR1 signaling by both APC and thrombin. Blood, 2016, 128, 1884-1893.	1.4	63
34	Inorganic polyphosphate promotes cyclin D1 synthesis through activation of mTOR/Wnt/Î²â€catenin signaling in endothelial cells. Journal of Thrombosis and Haemostasis, 2016, 14, 2261-2273.	3.8	50
35	Protein C Thr315Ala variant results in gain of function but manifests as type II deficiency in diagnostic assays. Blood, 2015, 125, 2428-2434.	1.4	20
36	Antithrombin up-regulates AMP-activated protein kinase signalling during myocardial ischaemia/reperfusion injury. Thrombosis and Haemostasis, 2015, 113, 338-349.	3.4	48

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37	Intraperitoneal administration of activated protein C prevents postsurgical adhesion band formation. Blood, 2015, 125, 1339-1348.	1.4	27
38	Engineering D-helix of antithrombin in alpha-1-proteinase inhibitor confers antiinflammatory properties on the chimeric serpin. Thrombosis and Haemostasis, 2014, 112, 164-175.	3.4	5
39	Protease-activated receptor signalling by coagulation proteases in endothelial cells. Thrombosis and Haemostasis, 2014, 112, 876-882.	3.4	98
40	Conformational Activation of Antithrombin by Heparin Involves an Altered Exosite Interaction with Protease. Journal of Biological Chemistry, 2014, 289, 34049-34064.	3.4	25
41	Thrombomodulin modulates cell migration in human melanoma cell lines. Melanoma Research, 2014, 24, 11-19.	1.2	10
42	Polyphosphate amplifies proinflammatory responses of nuclear proteins through interaction with receptor for advanced glycation end products and P2Y1 purinergic receptor. Blood, 2014, 123, 935-945.	1.4	99
43	Molecular basis of the clotting defect in a bleeding patient missing the Asp-185 codon in the factor X gene. Thrombosis Research, 2014, 134, 1103-1109.	1.7	6
44	Characterization of the protein Z-dependent protease inhibitor interactive-sites of protein Z. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1631-1637.	2.3	6
45	Adenosine Regulates the Proinflammatory Signaling Function of Thrombin in Endothelial Cells. Journal of Cellular Physiology, 2014, 229, 1292-1300.	4.1	54
46	Antithrombin is protective against myocardial ischemia and reperfusion injury. Journal of Thrombosis and Haemostasis, 2013, 11, 1020-1028.	3.8	46
47	Residues of the 39-Loop Restrict the Plasma Inhibitor Specificity of Factor IXa. Journal of Biological Chemistry, 2013, 288, 12692-12698.	3.4	5
48	Activated proteinÂC modulates cardiac metabolism and augments autophagy in the ischemic heart. Journal of Thrombosis and Haemostasis, 2012, 10, 1736-1744.	3.8	41
49	Characterization of the Heparin-Binding Site of the Protein Z-Dependent Protease Inhibitor. Biochemistry, 2012, 51, 4078-4085.	2.5	18
50	Contribution of the NH2-terminal EGF-domain of factor IXa to the specificity of intrinsic tenase. Thrombosis and Haemostasis, 2012, 108, 1154-1164.	3.4	8
51	Activated protein C inhibits high mobility group box 1 signaling in endothelial cells. Blood, 2011, 118, 3952-3959.	1.4	132
52	Activated protein C protects against myocardial ischemic/reperfusion injury through AMPâ€activated protein kinase signaling. Journal of Thrombosis and Haemostasis, 2011, 9, 1308-1317.	3.8	78
53	The occupancy of endothelial protein C receptor by its ligand modulates the parâ€1 dependent signaling specificity of coagulation proteases. IUBMB Life, 2011, 63, 390-396.	3.4	46
54	Regulation of the Protein C Anticoagulant and Antiinflammatory Pathways. Current Medicinal Chemistry, 2010, 17, 2059-2069.	2.4	122

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55	Contribution of exosite occupancy by heparin to the regulation of coagulation proteases by antithrombin. Thrombosis and Haemostasis, 2010, 103, 277-283.	3.4	21
56	Role of the Residues of the 39-Loop in Determining the Substrate and Inhibitor Specificity of Factor IXa. Journal of Biological Chemistry, 2010, 285, 28488-28495.	3.4	6
57	Role of the Reactive Center Loop of Protein Z Dependent Protease Inhibitor in Determining Specificity of the Protease Reaction. FASEB Journal, 2010, 24, 837.7.	0.5	0
58	Concentration dependent dual effect of thrombin in endothelial cells via Parâ€1 and Pi3 Kinase. Journal of Cellular Physiology, 2009, 219, 744-751.	4.1	74
59	Mutagenesis studies toward understanding the intracellular signaling mechanism of antithrombin. Journal of Thrombosis and Haemostasis, 2009, 7, 803-810.	3.8	21
60	Mutagenesis Studies toward Understanding Allostery in Thrombin. Biochemistry, 2009, 48, 8261-8270.	2.5	14
61	Recombinant human activated protein C inhibits integrin-mediated neutrophil migration. Blood, 2009, 113, 4078-4085.	1.4	108
62	Thrombin inhibits nuclear factor ÎºB and RhoA pathways in cytokine-stimulated vascular endothelial cells when EPCR is occupied by protein C. Thrombosis and Haemostasis, 2009, 101, 513-520.	3.4	47
63	Thrombin inhibits nuclear factor kappaB and RhoA pathways in cytokine-stimulated vascular endothelial cells when EPCR is occupied by protein C. Thrombosis and Haemostasis, 2009, 101, 513-20.	3.4	31
64	Factor Va Alters the Conformation of the Na+-Binding Loop of Factor Xa in the Prothrombinase Complex. Biochemistry, 2008, 47, 5976-5985.	2.5	5
65	Protein Z-dependent Protease Inhibitor Binds to the C-terminal Domain of Protein Z. Journal of Biological Chemistry, 2008, 283, 19922-19926.	3.4	39
66	Protease activated receptor 1 (PAR-1) activation by thrombin is protective in human pulmonary artery endothelial cells if endothelial protein C receptor is occupied by its natural ligand. Thrombosis and Haemostasis, 2008, 100, 101-109.	3.4	118
67	Recombinant Activated Protein C Regulates Integrinâ€Mediated Neutrophil Migration. FASEB Journal, 2008, 22, 666.5.	0.5	0
68	Engineering a Disulfide Bond to Stabilize the Calcium-binding Loop of Activated Protein C Eliminates Its Anticoagulant but Not Its Protective Signaling Properties. Journal of Biological Chemistry, 2007, 282, 9251-9259.	3.4	96
69	Identification of a Specific Exosite on Activated Protein C for Interaction with Protease-activated Receptor 1. Journal of Biological Chemistry, 2007, 282, 25493-25500.	3.4	54
70	Mechanism by Which Exosites Promote the Inhibition of Blood Coagulation Proteases by Heparin-activated Antithrombin. Journal of Biological Chemistry, 2007, 282, 33609-33622.	3.4	28
71	Receptors of the protein C activation and activated protein C signaling pathways are colocalized in lipid rafts of endothelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2867-2872.	7.1	173
72	The ligand occupancy of endothelial protein C receptor switches the protease-activated receptor 1-dependent signaling specificity of thrombin from a permeability-enhancing to a barrier-protective response in endothelial cells. Blood, 2007, 110, 3909-3916.	1.4	205

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73	Heparin chain-length dependence of factor Xa inhibition by antithrombin in plasma. Thrombosis Research, 2007, 119, 481-488.	1.7	14
74	Calcium-binding sites of the thrombin-thrombomodulin-protein C complex: Possible implications for the effect of platelet factor 4 on the activation of vitamin K-dependent coagulation factors. Thrombosis and Haemostasis, 2007, 97, 899-906.	3.4	21
75	Activation of protein C by the thrombin-thrombomodulin complex: Cooperative roles of Arg-35 of thrombin and Arg-67 of protein C. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 879-884.	7.1	42
76	Engineering a Disulfide Bond To Stabilize the Calcium Binding Loop of Activated Protein C Eliminates Its Anticoagulant but Not Protective Signaling Properties.. Blood, 2006, 108, 62-62.	1.4	0
77	Mutagenesis studies toward understanding the mechanism of the cofactor function of thrombomodulin. Biophysical Chemistry, 2005, 117, 255-261.	2.8	6
78	Identification of Factor Xa Residues Critical for Interaction with Protein Z-dependent Protease Inhibitor. Journal of Biological Chemistry, 2005, 280, 32722-32728.	3.4	31
79	The Conformation of the Activation Peptide of Protein C Is Influenced by Ca2+ and Na+ Binding. Journal of Biological Chemistry, 2004, 279, 38519-38524.	3.4	32
80	The Critical Role of the 185â€“189-Loop in the Factor Xa Interaction with Na+ and Factor Va in the Prothrombinase Complex. Journal of Biological Chemistry, 2004, 279, 48262-48269.	3.4	40
81	Kinetics of Factor Xa Inhibition by Recombinant Tick Anticoagulant Peptide:Â Both Active Site and Exosite Interactions Are Required for a Slow- and Tight-Binding Inhibition Mechanismâ€. Biochemistry, 2004, 43, 3368-3375.	2.5	13
82	Mutagenesis Studies toward Understanding the Mechanism of Differential Reactivity of Factor Xa with the Native and Heparin-Activated Antithrombinâ€. Biochemistry, 2004, 43, 2898-2905.	2.5	13
83	Exosite-Dependent Regulation of the Protein C Anticoagulant Pathway. Trends in Cardiovascular Medicine, 2003, 13, 8-15.	4.9	42
84	Contribution of Basic Residues of the Autolysis Loop to the Substrate and Inhibitor Specificity of Factor IXa. Journal of Biological Chemistry, 2003, 278, 25032-25038.	3.4	31
85	The Fourth Epidermal Growth Factor-like Domain of Thrombomodulin Interacts with the Basic Exosite of Protein C. Journal of Biological Chemistry, 2003, 278, 10484-10490.	3.4	35
86	Proexosite-1 on Prothrombin Is a Factor Va-dependent Recognition Site for the Prothrombinase Complex. Journal of Biological Chemistry, 2003, 278, 27564-27569.	3.4	50
87	Thrombomodulin allosterically modulates the activity of the anticoagulant thrombin. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12051-12056.	7.1	53
88	Exosite-dependent regulation of factor VIIIa by activated protein C. Blood, 2003, 101, 4802-4807.	1.4	29
89	Localization of the Heparin Binding Exosite of Factor IXa. Journal of Biological Chemistry, 2002, 277, 50756-50760.	3.4	53
90	Partial Activation of Antithrombin without Heparin through Deletion of a Unique Sequence on the Reactive Site Loop of the Serpin. Journal of Biological Chemistry, 2002, 277, 1235-1239.	3.4	14

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91	Role of Basic Residues of the Autolysis Loop in the Catalytic Function of Factor Xaâ€. Biochemistry, 2002, 41, 6780-6788.	2.5	58
92	Contribution of Basic Residues of the 70â˜80-Loop to Heparin Binding and Anticoagulant Function of Activated Protein Câ€. Biochemistry, 2002, 41, 6149-6157.	2.5	59
93	Probing the molecular basis of factor Xa specificity by mutagenesis of the serpin, antithrombin. Biochimica Et Biophysica Acta - General Subjects, 2001, 1528, 167-176.	2.4	28
94	Heparin-Binding Exosite of Factor Xa. Trends in Cardiovascular Medicine, 2000, 10, 333-338.	4.9	32
95	Sodium Binding Site of Factor Xa:Â Role of Sodium in the Prothrombinase Complexâ€. Biochemistry, 2000, 39, 1817-1825.	2.5	64
96	Identification and Characterization of the Sodium-binding Site of Activated Protein C. Journal of Biological Chemistry, 1999, 274, 4970-4976.	3.4	43
97	Reactivities of the S2 and S3 subsite residues of thrombin with the native and heparinâ€induced conformers of antithrombin. Protein Science, 1998, 7, 349-357.	7.6	29
98	Thrombomodulin Increases the Rate of Thrombin Inhibition by BPTIâ€. Biochemistry, 1998, 37, 693-699.	2.5	33
99	Rapid activation of protein C by factor Xa and thrombin in the presence of polyanionic compounds. Blood, 1998, 91, 4572-80.	1.4	4
100	Influence of Arginines 93, 97, and 101 of Thrombin to Its Functional Specificityâ€. Biochemistry, 1997, 36, 8969-8976.	2.5	39
101	Role of Residue 99 at the S2 Subsite of Factor Xa and Activated Protein C in Enzyme Specificity. Journal of Biological Chemistry, 1996, 271, 23807-23814.	3.4	41
102	Molecular Basis of Residue 192 Participation in Determination of Coagulation Protease Specificity. FEBS Journal, 1996, 242, 477-484.	0.2	32
103	The Endothelial Cell Protein C Receptor. Journal of Biological Chemistry, 1996, 271, 17491-17498.	3.4	123
104	Protein C Inhibitor Is a Potent Inhibitor of the Thrombin-Thrombomodulin Complex. Journal of Biological Chemistry, 1995, 270, 25336-25339.	3.4	153
105	Tryptophans 231 and 234 in Protein C Report the Ca2+-Dependent Conformational Change Required for Activation by the Thrombin-Thrombomodulin Complex. Biochemistry, 1995, 34, 12221-12226.	2.5	30
106	Calcium inhibition of the activation of protein C by thrombin Role of the P3 and P3' residues. FEBS Journal, 1994, 223, 575-579.	0.2	5
107	Mutation of Glu-80-->Lys results in a protein C mutant that no longer requires Ca2+ for rapid activation by the thrombin-thrombomodulin complex. Journal of Biological Chemistry, 1994, 269, 3151-4.	3.4	44
108	Asp-70-->Lys mutant of factor X lacks high affinity Ca2+ binding site yet retains function. Journal of Biological Chemistry, 1994, 269, 21495-9.	3.4	35

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109	Proline at the P2 position in protein C is important for calcium-mediated regulation of protein C activation and secretion. Blood, 1994, 83, 2526-31.	1.4	1
110	Conversion of glutamic acid 192 to glutamine in activated protein C changes the substrate specificity and increases reactivity toward macromolecular inhibitors. Journal of Biological Chemistry, 1993, 268, 19943-8.	3.4	33
111	Analysis of the functions of the first epidermal growth factor-like domain of factor X. Journal of Biological Chemistry, 1993, 268, 8176-80.	3.4	42
112	The function of calcium in protein C activation by thrombin and the thrombin-thrombomodulin complex can be distinguished by mutational analysis of protein C derivatives. Journal of Biological Chemistry, 1992, 267, 26104-9.	3.4	94
113	The high affinity calcium-binding site involved in protein C activation is outside the first epidermal growth factor homology domain. Journal of Biological Chemistry, 1992, 267, 11701-4.	3.4	18