# Karen Vanhoorelbeke

List of Publications by Year
in descending order



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|---|---|---|---|
| 97 papers | 3,945 citations | 147801 31 h-index | 128289 60 g-index |
| 98 all docs | 98 docs citations | 98 times ranked | 3785 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mechanisms of Autoantibody-Induced Pathology. Frontiers in Immunology, 2017, 8, 603. | 4.8 | 377 |
| 2 | ADAMTS13 and anti-ADAMTS13 antibodies as markers for recurrence of acquired thrombotic thrombocytopenic purpura during remission. Haematologica, 2008, 93, 232-239. | 3.5 | 250 |
| 3 | Thrombotic thrombocytopenic purpura. Nature Reviews Disease Primers, 2017, 3, 17020. | 30.5 | 242 |
| 4 | Decreased ADAMTS-13 (A disintegrin-like and metalloprotease with thrombospondin type 1 repeats) is associated with a poor prognosis in sepsis-induced organ failure*. Critical Care Medicine, 2007, 35, 2375-2382. | 0.9 | 167 |
| 5 | Structural analysis of ischemic stroke thrombi: histological indications for therapy resistance. Haematologica, 2020, 105, 498-507. | 3.5 | 154 |
| 6 | ADAMTS13-mediated thrombolysis of t-PAâ€“resistant occlusions in ischemic stroke in mice. Blood, 2016, 127, 2337-2345. | 1.4 | 138 |
| 7 | ADAMTS13 activity to antigen ratio in physiological and pathological conditions associated with an increased risk of thrombosis. British Journal of Haematology, 2007, 138, 534-540. | 2.5 | 135 |
| 8 | Allosteric activation of ADAMTS13 by von Willebrand factor. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18584-18589. | 7.1 | 123 |
| 9 | Conformational activation of ADAMTS13. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18578-18583. | 7.1 | 111 |
| 10 | Thrombotic thrombocytopenic purpura directly linked with ADAMTS13 inhibition in the baboon (Papio) Tj ETQq0 0 0 rgBT /Overlock 10 T | 1.4 | 104 |
| 11 | Preemptive rituximab prevents long-term relapses in immune-mediated thrombotic thrombocytopenic purpura. Blood, 2018, 132, 2143-2153. | 1.4 | 102 |
| 12 | Adhesion of Staphylococcus aureus to the vessel wall under flow is mediated by von Willebrand factorâ€“binding protein. Blood, 2014, 124, 1669-1676. | 1.4 | 96 |
| 13 | Presenting ADAMTS13 antibody and antigen levels predict prognosis in immune-mediated thrombotic thrombocytopenic purpura. Blood, 2017, 130, 466-471. | 1.4 | 92 |
| 14 | ADAMTSâ€13 plasma level determination uncovers antigen absence in acquired thrombotic thrombocytopenic purpura and ethnic differences. Journal of Thrombosis and Haemostasis, 2006, 4, 955-962. | 3.8 | 86 |
| 15 | Multiâ€step binding of ADAMTSâ€13 to von Willebrand factor. Journal of Thrombosis and Haemostasis, 2009, 7, 2088-2095. | 3.8 | 79 |
| 16 | An open conformation of ADAMTSâ€13 is a hallmark of acute acquired thrombotic thrombocytopenic purpura. Journal of Thrombosis and Haemostasis, 2018, 16, 378-388. | 3.8 | 72 |
| 17 | Plasmin Cleavage of von Willebrand Factor as an Emergency Bypass for ADAMTS13 Deficiency in Thrombotic Microangiopathy. Circulation, 2014, 129, 1320-1331. | 1.6 | 69 |
| 18 | Platelet-derived VWF is not essential for normal thrombosis and hemostasis but fosters ischemic stroke injury in mice. Blood, 2015, 126, 1715-1722. | 1.4 | 65 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Restoration of Plasma von Willebrand Factor Deficiency Is Sufficient to Correct Thrombus Formation After Gene Therapy for Severe von Willebrand Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1621-1626. | 2.4 | 64 |
| 20 | Potential for Recombinant ADAMTS13 as an Effective Therapy for Acquired Thrombotic Thrombocytopenic Purpura. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2336-2342. | 2.4 | 64 |
| 21 | Binding of von Willebrand Factor to Collagen and Glycoprotein Ibα, But Not to Glycoprotein IIb/IIIa, Contributes to Ischemic Stroke in Miceâ€"Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1949-1951. | 2.4 | 63 |
| 22 | Linker regions and flexibility around the metalloprotease domain account for conformational activation of ADAMTSâ€13. Journal of Thrombosis and Haemostasis, 2015, 13, 2063-2075. | 3.8 | 58 |
| 23 | Crystal structure and substrate-induced activation of ADAMTS13. Nature Communications, 2019, 10, 3781. | 12.8 | 56 |
| 24 | N-acetylcysteine in preclinical mouse and baboon models of thrombotic thrombocytopenic purpura. Blood, 2017, 129, 1030-1038. | 1.4 | 53 |
| 25 | Animal models for thrombotic thrombocytopenic purpura. Journal of Thrombosis and Haemostasis, 2013, 11, 2-10. | 3.8 | 52 |
| 26 | First report of a de novo iTTP episode associated with an mRNAâ€based antiâ€COVIDâ€19 vaccination. Journal of Thrombosis and Haemostasis, 2021, 19, 2014-2018. | 3.8 | 52 |
| 27 | Inhibition of Thrombin-Activatable Fibrinolysis Inhibitor and Plasminogen Activator Inhibitor-1 Reduces Ischemic Brain Damage in Mice. Stroke, 2016, 47, 2419-2422. | 2.0 | 48 |
| 28 | Local Elongation of Endothelial Cell-anchored von Willebrand Factor Strings Precedes ADAMTS13 Protein-mediated Proteolysis. Journal of Biological Chemistry, 2011, 286, 36361-36367. | 3.4 | 46 |
| 29 | Inhibition of von Willebrand factorâ€"platelet glycoprotein Ib interaction prevents and reverses symptoms of acute acquired thrombotic thrombocytopenic purpura in baboons. Blood, 2012, 120, 3611-3614. | 1.4 | 40 |
| 30 | ADAMTS13 Gene Mutations Influence ADAMTS13 Conformation and Disease Age-Onset in the French Cohort of Upshawâ€"Schulman Syndrome. Thrombosis and Haemostasis, 2018, 118, 1902-1917. | 3.4 | 40 |
| 31 | Open ADAMTS13, induced by antibodies, is a biomarker for subclinical immune-mediated thrombotic thrombocytopenic purpura. Blood, 2020, 136, 353-361. | 1.4 | 35 |
| 32 | Imbalance of von Willebrand factor and ADAMTS13 axis is rather a biomarker of strong inflammation and endothelial damage than a cause of thrombotic process in critically ill COVIDâ€19 patients. Journal of Thrombosis and Haemostasis, 2021, 19, 2193-2198. | 3.8 | 33 |
| 33 | Dissecting the pathophysiology of immune thrombotic thrombocytopenic purpura: interplay between genes and environmental triggers. Haematologica, 2018, 103, 1099-1109. | 3.5 | 31 |
| 34 | Antibodies that conformationally activate ADAMTS13 allosterically enhance metalloprotease domain function. Blood Advances, 2020, 4, 1072-1080. | 5.2 | 28 |
| 35 | The role of platelet and endothelial GARP in thrombosis and hemostasis. PLoS ONE, 2017, 12, e0173329. | 2.5 | 27 |
| 36 | Anti-ADAMTS13 Autoantibodies against Cryptic Epitopes in Immune-Mediated Thrombotic Thrombocytopenic Purpura. Thrombosis and Haemostasis, 2018, 118, 1729-1742. | 3.4 | 24 |

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|---|---|---|---|
| 37 | Crystal structure of ADAMTS13 CUB domains reveals their role in global latency. Science Advances, 2021, 7, . | 10.3 | 24 |
| 38 | Human platelets produced in nonobese diabetic/severe combined immunodeficient (NOD/SCID) mice upon transplantation of human cord blood CD34+ cells are functionally active in an ex vivo flow model of thrombosis. Blood, 2009, 114, 5044-5051. | 1.4 | 23 |
| 39 | ADAMTS13 and anti-ADAMTS13 autoantibodies in thrombotic thrombocytopenic purpura â€“ current perspectives and new treatment strategies. Expert Review of Hematology, 2016, 9, 209-221. | 2.2 | 23 |
| 40 | Exploring the â€œminimalâ€•structure of a functional ADAMTS13 by mutagenesis and small-angle X-ray scattering. Blood, 2019, 133, 1909-1918. | 1.4 | 23 |
| 41 | Phylogenetic and functional analysis of ADAMTS13 identifies highly conserved domains essential for allosteric regulation. Blood, 2019, 133, 1899-1908. | 1.4 | 23 |
| 42 | Expanding a Portfolio of (FO-) SPR Surface Chemistries with the Co(III)-NTA Oriented Immobilization of His<sub>6</sub>-Tagged Bioreceptors for Applications in Complex Matrices. ACS Sensors, 2020, 5, 960-969. | 7.8 | 23 |
| 43 | Super-resolution mapping of glutamate receptors in C. elegans by confocal correlated PALM. Scientific Reports, 2015, 5, 13532. | 3.3 | 21 |
| 44 | Long-Term Prevention of Congenital Thrombotic Thrombocytopenic Purpura in ADAMTS13 Knockout Mice by Sleeping Beauty Transposon-Mediated Gene Therapy. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 836-844. | 2.4 | 19 |
| 45 | Co(III)-NTA Mediated Antigen Immobilization on a Fiber Optic-SPR Biosensor for Detection of Autoantibodies in Autoimmune Diseases: Application in Immune-Mediated Thrombotic Thrombocytopenic Purpura. Analytical Chemistry, 2020, 92, 13880-13887. | 6.5 | 19 |
| 46 | The novel ADAMTS13â€p.D187H mutation impairs ADAMTS13 activity and secretion and contributes to thrombotic thrombocytopenic purpura in mice. Journal of Thrombosis and Haemostasis, 2015, 13, 283-292. | 3.8 | 17 |
| 47 | Understanding therapeutic targets in thrombotic thrombocytopenic purpura. Intensive Care Medicine, 2017, 43, 1398-1400. | 8.2 | 17 |
| 48 | Mass spectrometry-assisted identification of ADAMTS13-derived peptides presented on HLA-DR and HLA-DQ. Haematologica, 2018, 103, 1083-1092. | 3.5 | 17 |
| 49 | ADAMTS13 in Health and Disease. Acta Haematologica, 2009, 121, 183-185. | 1.4 | 16 |
| 50 | Insights into 3D Structure of ADAMTS13: A Stepping Stone towards Novel Therapeutic Treatment of Thrombotic Thrombocytopenic Purpura. Thrombosis and Haemostasis, 2018, 118, 028-041. | 3.4 | 16 |
| 51 | Modifying ADAMTS13 to modulate binding of pathogenic autoantibodies of patients with acquired thrombotic thrombocytopenic purpura. Haematologica, 2020, 105, 2619-2630. | 3.5 | 16 |
| 52 | Immunogenic hotspots in the spacer domain of ADAMTS13 in immuneâ€mediated thrombotic thrombocytopenic purpura. Journal of Thrombosis and Haemostasis, 2021, 19, 478-488. | 3.8 | 16 |
| 53 | Anti-ADAMTS13 autoantibody profiling in patients with immune-mediated thrombotic thrombocytopenic purpura. Blood Advances, 2021, 5, 3427-3435. | 5.2 | 16 |
| 54 | Microlyse: a thrombolytic agent that targets VWF for clearance of microvascular thrombosis. Blood, 2022, 139, 597-607. | 1.4 | 16 |

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| 55 | Keeping von Willebrand Factor under Control: Alternatives for ADAMTS13. Seminars in Thrombosis and Hemostasis, 2016, 42, 009-017. | 2.7 | 15 |
| 56 | Tuning the Surface Interactions between Single Cells and an OSTE+ Microwell Array for Enhanced Single Cell Manipulation. ACS Applied Materials & Interfaces, 2021, 13, 2316-2326. | 8.0 | 15 |
| 57 | Amplified endogenous plasmin activity resolves acute thrombotic thrombocytopenic purpura in mice. Journal of Thrombosis and Haemostasis, 2017, 15, 2432-2442. | 3.8 | 14 |
| 58 | Plasma and rhADAMTS13 reduce trauma-induced organ failure by restoring the ADAMTS13-VWF axis. Blood Advances, 2021, 5, 3478-3491. | 5.2 | 14 |
| 59 | Generation of Anti-Murine ADAMTS13 Antibodies and Their Application in a Mouse Model for Acquired Thrombotic Thrombocytopenic Purpura. PLoS ONE, 2016, 11, e0160388. | 2.5 | 14 |
| 60 | ADAMTSâ€13 glycans and conformationâ€dependent activity. Journal of Thrombosis and Haemostasis, 2017, 15, 1155-1166. | 3.8 | 13 |
| 61 | Major Changes of von Willebrand Factor Multimer Distribution in Cirrhotic Patients with Stable Disease or Acute Decompensation. Thrombosis and Haemostasis, 2018, 118, 1397-1408. | 3.4 | 13 |
| 62 | Deletion of platelet CLEC-2 decreases GPIba-mediated integrin aIIb3 activation and decreases thrombosis in TTP. Blood, 2022, , . | 1.4 | 13 |
| 63 | Antiâ€ADAMTS13 autoantibodies in immuneâ€mediated thrombotic thrombocytopenic purpura do not hamper ELISAâ€based quantification of ADAMTS13 antigen. Journal of Thrombosis and Haemostasis, 2020, 18, 985-990. | 3.8 | 12 |
| 64 | Evaluation of Immuno-Rolling Circle Amplification for Multiplex Detection and Profiling of Antigen-Specific Antibody Isotypes. Analytical Chemistry, 2021, 93, 6169-6177. | 6.5 | 12 |
| 65 | <scp>TTP</scp>: From empiricism for an enigmatic disease to targeted molecular therapies. British Journal of Haematology, 2022, 197, 156-170. | 2.5 | 12 |
| 66 | Thrombus formation during ECMO: Insights from a detailed histological analysis of thrombus composition. Journal of Thrombosis and Haemostasis, 2022, 20, 2058-2069. | 3.8 | 12 |
| 67 | Anti-ADAMTS13 Antibodies and a Novel Heterozygous p.R1177Q Mutation in a Case of Pregnancy-Onset Immune-Mediated Thrombotic Thrombocytopenic Purpura. TH Open, 2018, 02, e8-e15. | 1.4 | 11 |
| 68 | N-glycanâ€“mediated shielding of ADAMTS13 prevents binding of pathogenic autoantibodies in immune-mediated TTP. Blood, 2021, 137, 2694-2698. | 1.4 | 11 |
| 69 | Gold nanoparticle enhanced multiplexed biosensing on a fiber optic surface plasmon resonance probe. Biosensors and Bioelectronics, 2021, 192, 113549. | 10.1 | 11 |
| 70 | Insights into ADAMTS13 structure: impact on thrombotic thrombocytopenic purpura diagnosis and management. Current Opinion in Hematology, 2020, 27, 320-326. | 2.5 | 10 |
| 71 | Miniaturized single-cell technologies for monoclonal antibody discovery. Lab on A Chip, 2021, 21, 3627-3654. | 6.0 | 10 |
| 72 | Structure-Based Cyclic Glycoprotein Ibα-Derived Peptides Interfering with von Willebrand Factor-Binding, Affecting Platelet Aggregation under Shear. International Journal of Molecular Sciences, 2022, 23, 2046. | 4.1 | 10 |

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| 73 | In vivo von Willebrand factor size heterogeneity in spite of the clinical deficiency of ADAMTS-13. Journal of Thrombosis and Haemostasis, 2011, 9, 2506-2508. | 3.8 | 9 |
| 74 | Improved molecular platform for the gene therapy of rare diseases by liver protein secretion. European Journal of Medical Genetics, 2018, 61, 723-728. | 1.3 | 9 |
| 75 | Generation and validation of small ADAMTS13 fragments for epitope mapping of antiâ€ADAMTS13 autoantibodies in immuneâ€mediated thrombotic thrombocytopenic purpura. Research and Practice in Thrombosis and Haemostasis, 2020, 4, 918-930. | 2.3 | 9 |
| 76 | Deletion of GARP on mouse regulatory T cells is not sufficient to inhibit the growth of transplanted tumors. Cellular Immunology, 2018, 332, 129-133. | 3.0 | 8 |
| 77 | von Willebrand factor in experimental malariaâ€associated acute respiratory distress syndrome. Journal of Thrombosis and Haemostasis, 2019, 17, 1372-1383. | 3.8 | 8 |
| 78 | Determination of antiâ€ADAMTSâ€13 autoantibody titers in ELISA: Influence of ADAMTSâ€13 presentation and autoantibody detection. Journal of Thrombosis and Haemostasis, 2021, 19, 2248-2255. | 3.8 | 7 |
| 79 | Differences in von Willebrand factor function in type 2A von Willebrand disease and left ventricular assist deviceâ€induced acquired von Willebrand syndrome. Research and Practice in Thrombosis and Haemostasis, 2018, 2, 762-766. | 2.3 | 6 |
| 80 | Antithrombin p.Thr147Ala: The First Founder Mutation in People of African Origin Responsible for Inherited Antithrombin Deficiency. Thrombosis and Haemostasis, 2021, 121, 182-191. | 3.4 | 6 |
| 81 | Anti-cysteine/spacer antibodies that open ADAMTS13 are a common feature in iTTP. Blood Advances, 2021, 5, 4480-4484. | 5.2 | 6 |
| 82 | Generation of anti-idiotypic antibodies to detect anti-spacer antibody idiotopes in acute thrombotic thrombocytopenic purpura patients. Haematologica, 2019, 104, 1268-1276. | 3.5 | 5 |
| 83 | ADAMTS13 conformation is closed in non-immune acquired thrombotic thrombocytopenic purpura of unidentified pathophysiology. Haematologica, 2023, 108, 638-644. | 3.5 | 5 |
| 84 | von Willebrand factor deficiency does not influence angiotensin II-induced abdominal aortic aneurysm formation in mice. Scientific Reports, 2018, 8, 16645. | 3.3 | 4 |
| 85 | Childâ€onset thrombotic thrombocytopenic purpura caused by p.R498C and p.G259PfsX133 mutations in ADAMTS13. European Journal of Haematology, 2018, 101, 191-199. | 2.2 | 4 |
| 86 | Understanding the Health Literacy in Patients With Thrombotic Thrombocytopenic Purpura. HemaSphere, 2020, 4, e462. | 2.7 | 4 |
| 87 | Conformational plasticity of ADAMTS13 in hemostasis and autoimmunity. Journal of Biological Chemistry, 2021, 297, 101132. | 3.4 | 4 |
| 88 | von Willebrand factor increases in experimental cerebral malaria but is not essential for lateâ€stage pathogenesis in mice. Journal of Thrombosis and Haemostasis, 2020, 18, 2377-2390. | 3.8 | 2 |
| 89 | Single Particle Tracking of ADAMTS13 (A Disintegrin and Metalloprotease with Thrombospondin Type-1) Tj ETQq1 1 0.784314 rgBT /Ov 2014, 289, 8903-8915. | 3.4 | 1 |
| 90 | Response to Letter Regarding Article, â€œPlasmin Cleavage of von Willebrand Factor as an Emergency Bypass for ADAMTS13 Deficiency in Thrombotic Microangiopathyâ€• Circulation, 2015, 131, e19-20. | 1.6 | 1 |

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| 91 | PROFILE: Earlyâ€Stage Researchers Advancing Insights in TTP Through a Unique PhD Track. HemaSphere, 2018, 2, e22. | 2.7 | 1 |
| 92 | Acquired von Willebrand syndrome in patients on long-term left ventricular assist device support: Results of a Belgian center. Thrombosis Research, 2019, 184, 77-80. | 1.7 | 1 |
| 93 | Transfer of ADAMTS13 antibody-mediated thrombotic thrombocytopenic purpura via kidney transplantation. Haematologica, 2019, 104, e277-e280. | 3.5 | 1 |
| 94 | Update â€“ PROFILE: Earlyâ€Stage Researchers Advancing Insights on TTP through a Unique PhD Track. HemaSphere, 2019, 3, e281. | 2.7 | 1 |
| 95 | Artificial MiRNA Knockdown of Platelet Glycoprotein Ibî±: A Tool for Platelet Gene Silencing. PLoS ONE, 2015, 10, e0132899. | 2.5 | 0 |
| 96 | P5119Differences in VWF activity in von willebrand disease type 2A patients versus LVAD patients with the acquired von willebrand syndrome. European Heart Journal, 2018, 39, . | 2.2 | 0 |
| 97 | Improvement of recombinant ‹scp›ADAMTS13‹/scp› production through a more optimal signal peptide or an Nâ€terminal fusion protein. Journal of Thrombosis and Haemostasis, 0, , . | 3.8 | 0 |