# Dominique Missiakas

List of Publications by Year
in descending order



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|---|---|---|---|
| 71 papers | 3,622 citations | 186265 28 h-index | 144013 57 g-index |
| 73 all docs | 73 docs citations | 73 times ranked | 4881 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Staphylococcal manipulation of host immune responses. Nature Reviews Microbiology, 2015, 13, 529-543. | 28.6 | 434 |
| 2 | A play in four acts: Staphylococcus aureus abscess formation. Trends in Microbiology, 2011, 19, 225-232. | 7.7 | 233 |
| 3 | Host defenses against Staphylococcus aureus infection require recognition of bacterial lipoproteins. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13831-13836. | 7.1 | 219 |
| 4 | Pathogenesis of <i>Staphylococcus aureus</i> Bloodstream Infections. Annual Review of Pathology: Mechanisms of Disease, 2016, 11, 343-364. | 22.4 | 212 |
| 5 | Recurrent infections and immune evasion strategies of Staphylococcus aureus. Current Opinion in Microbiology, 2012, 15, 92-99. | 5.1 | 189 |
| 6 | Masitinib is a broad coronavirus 3CL inhibitor that blocks replication of SARS-CoV-2. Science, 2021, 373, 931-936. | 12.6 | 173 |
| 7 | Mouse models for infectious diseases caused by Staphylococcus aureus. Journal of Immunological Methods, 2014, 410, 88-99. | 1.4 | 127 |
| 8 | Release of protein A from the cell wall of <i>Staphylococcus aureus</i>. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1574-1579. | 7.1 | 113 |
| 9 | Sec-secretion and sortase-mediated anchoring of proteins in Gram-positive bacteria. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1687-1697. | 4.1 | 112 |
| 10 | Staphylococcus aureus Mutants Lacking the LytR-CpsA-Psr Family of Enzymes Release Cell Wall Teichoic Acids into the Extracellular Medium. Journal of Bacteriology, 2013, 195, 4650-4659. | 2.2 | 104 |
| 11 | 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 |
| 12 | The Capsular Polysaccharide of Staphylococcus aureus Is Attached to Peptidoglycan by the LytR-CpsA-Psr (LCP) Family of Enzymes. Journal of Biological Chemistry, 2014, 289, 15680-15690. | 3.4 | 93 |
| 13 | <i>Staphylococcus aureus</i> endocarditis: distinct mechanisms of bacterial adhesion to damaged and inflamed heart valves. European Heart Journal, 2019, 40, 3248-3259. | 2.2 | 92 |
| 14 | Circulating ACE2-expressing extracellular vesicles block broad strains of SARS-CoV-2. Nature Communications, 2022, 13, 405. | 12.8 | 92 |
| 15 | Changes in lipopolysaccharide structure induce the ÏƒE-dependent response of Escherichia coli. Molecular Microbiology, 2005, 55, 1403-1412. | 2.5 | 70 |
| 16 | Multiple Ligands of von Willebrand Factor-binding Protein (vWbp) Promote Staphylococcus aureus Clot Formation in Human Plasma. Journal of Biological Chemistry, 2013, 288, 28283-28292. | 3.4 | 69 |
| 17 | Secretion of atypical protein substrates by the <scp>ESAT</scp>â€6 <scp>S</scp>ecretion <scp>S</scp>ystem of <i><scp>S</scp></i><i>taphylococcus aureus</i>. Molecular Microbiology, 2013, 90, 734-743. | 2.5 | 66 |
| 18 | <i>Staphylococcus aureus</i> vaccines: Deviating from the carol. Journal of Experimental Medicine, 2016, 213, 1645-1653. | 8.5 | 63 |

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|---|---|---|---|
| 19 | Identifying protective antigens of<i>Staphylococcus aureus</i>, a pathogen that suppresses host immune responses. FASEB Journal, 2011, 25, 3605-3612. | 0.5 | 62 |
| 20 | Capsule anchoring in <i>Bacillus anthracis</i> occurs by a transpeptidation reaction that is inhibited by capsidin. Molecular Microbiology, 2009, 71, 404-420. | 2.5 | 61 |
| 21 | Antibodies against a secreted product of <i>Staphylococcus aureus</i> trigger phagocytic killing. Journal of Experimental Medicine, 2016, 213, 293-301. | 8.5 | 51 |
| 22 | FPR1 is the plague receptor on host immune cells. Nature, 2019, 574, 57-62. | 27.8 | 48 |
| 23 | EssD, a Nuclease Effector of the Staphylococcus aureus ESS Pathway. Journal of Bacteriology, 2017, 199, . | 2.2 | 47 |
| 24 | LytR-CpsA-Psr Enzymes as Determinants of Bacillus anthracis Secondary Cell Wall Polysaccharide Assembly. Journal of Bacteriology, 2015, 197, 343-353. | 2.2 | 41 |
| 25 | Sortases, Surface Proteins, and Their Roles in<i>Staphylococcus aureus</i>Disease and Vaccine Development. Microbiology Spectrum, 2019, 7, . | 3.0 | 39 |
| 26 | SagB Glucosaminidase Is a Determinant of Staphylococcus aureus Glycan Chain Length, Antibiotic Susceptibility, and Protein Secretion. Journal of Bacteriology, 2016, 198, 1123-1136. | 2.2 | 37 |
| 27 | Staphylococcal Protein A Contributes to Persistent Colonization of Mice with Staphylococcus aureus. Journal of Bacteriology, 2018, 200, . | 2.2 | 36 |
| 28 | <i>Staphylococcus aureus</i> targets the purine salvage pathway to kill phagocytes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6846-6851. | 7.1 | 36 |
| 29 | A novel STK1-targeted small-molecule as an â€œantibiotic resistance breakerâ€•against multidrug-resistant Staphylococcus aureus. Scientific Reports, 2017, 7, 5067. | 3.3 | 35 |
| 30 | Staphylococcus aureus Decolonization of Mice With Monoclonal Antibody Neutralizing Protein A. Journal of Infectious Diseases, 2019, 219, 884-888. | 4.0 | 34 |
| 31 | The SLHâ€domain protein BslO is a determinant of Bacillus anthracis chain length. Molecular Microbiology, 2011, 81, 192-205. | 2.5 | 32 |
| 32 | Staphylococcus aureus Exploits the Host Apoptotic Pathway To Persist during Infection. MBio, 2019, 10, . | 4.1 | 32 |
| 33 | EssE Promotes Staphylococcus aureus ESS-Dependent Protein Secretion To Modify Host Immune Responses during Infection. Journal of Bacteriology, 2017, 199, . | 2.2 | 28 |
| 34 | Isolation of a Membrane Protein Complex for Type VII Secretion in Staphylococcus aureus. Journal of Bacteriology, 2017, 199, . | 2.2 | 26 |
| 35 | A Novel Soluble ACE2 Protein Provides Lung and Kidney Protection in Mice Susceptible to Lethal SARS-CoV-2 Infection. Journal of the American Society of Nephrology: JASN, 2022, 33, 1293-1307. | 6.1 | 26 |
| 36 | Staphylococcus aureus alpha-hemolysin impairs corneal epithelial wound healing and promotes intracellular bacterial invasion. Experimental Eye Research, 2019, 181, 263-270. | 2.6 | 24 |

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|---|---|---|---|
| 37 | Pathogenic conversion of coagulase-negative staphylococci. Microbes and Infection, 2017, 19, 101-109. | 1.9 | 22 |
| 38 | Septal secretion of protein A in Staphylococcus aureus requires SecA and lipoteichoic acid synthesis. ELife, 2018, 7, . | 6.0 | 22 |
| 39 | Vaccine Protection of Leukopenic Mice against Staphylococcus aureus Bloodstream Infection. Infection and Immunity, 2014, 82, 4889-4898. | 2.2 | 21 |
| 40 | Selective Host Cell Death by Staphylococcus aureus: A Strategy for Bacterial Persistence. Frontiers in Immunology, 2020, 11, 621733. | 4.8 | 21 |
| 41 | Bacillus anthracis tagO Is Required for Vegetative Growth and Secondary Cell Wall Polysaccharide Synthesis. Journal of Bacteriology, 2015, 197, 3511-3520. | 2.2 | 20 |
| 42 | EssH Peptidoglycan Hydrolase Enables Staphylococcus aureus Type VII Secretion across the Bacterial Cell Wall Envelope. Journal of Bacteriology, 2018, 200, . | 2.2 | 20 |
| 43 | Spherical nucleic acids as an infectious disease vaccine platform. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119093119. | 7.1 | 20 |
| 44 | Glycosylation-dependent opsonophagocytic activity of staphylococcal protein A antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22992-23000. | 7.1 | 19 |
| 45 | Engineered human antibodies for the opsonization and killing of<i>Staphylococcus aureus</i>. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 18 |
| 46 | <i>Bacillus anthracis lcp</i> Genes Support Vegetative Growth, Envelope Assembly, and Spore Formation. Journal of Bacteriology, 2015, 197, 3731-3741. | 2.2 | 16 |
| 47 | Genes Required for Bacillus anthracis Secondary Cell Wall Polysaccharide Synthesis. Journal of Bacteriology, 2017, 199, . | 2.2 | 16 |
| 48 | FmhA and FmhC of Staphylococcus aureus incorporate serine residues into peptidoglycan cross-bridges. Journal of Biological Chemistry, 2020, 295, 13664-13676. | 3.4 | 16 |
| 49 | A Multifunctional Neutralizing Antibodyâ€Conjugated Nanoparticle Inhibits and Inactivates SARSâ€CoVâ€2. Advanced Science, 2022, 9, e2103240. | 11.2 | 16 |
| 50 | The Expression of von Willebrand Factor-Binding Protein Determines Joint-Invading Capacity of Staphylococcus aureus, a Core Mechanism of Septic Arthritis. MBio, 2020, 11, . | 4.1 | 14 |
| 51 | GneZ, a UDP-GlcNAc 2-Epimerase, Is Required for S-Layer Assembly and Vegetative Growth of Bacillus anthracis. Journal of Bacteriology, 2014, 196, 2969-2978. | 2.2 | 13 |
| 52 | Marginal role of von Willebrand factor-binding protein and coagulase in the initiation of endocarditis in rats with catheter-induced aortic vegetations. Virulence, 2018, 9, 1615-1624. | 4.4 | 13 |
| 53 | Staphylococcus aureus vWF-binding protein triggers a strong interaction between clumping factor A and host vWF. Communications Biology, 2021, 4, 453. | 4.4 | 11 |
| 54 | A monoclonal antibody that recognizes the E domain of staphylococcal protein A. Vaccine, 2014, 32, 464-469. | 3.8 | 10 |

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| 55 | Bacillus anthracis SlaQ Promotes S-Layer Protein Assembly. Journal of Bacteriology, 2015, 197, 3216-3227. | 2.2 | 9 |
| 56 | A protein A based Staphylococcus aureus vaccine with improved safety. Vaccine, 2021, 39, 3907-3915. | 3.8 | 9 |
| 57 | Regulated Cleavage of Glycan Strands by the Murein Hydrolase SagB in Staphylococcus aureus Involves a Direct Interaction with LyrA (SpdC). Journal of Bacteriology, 2021, 203, . | 2.2 | 8 |
| 58 | Rapid pathogen identification and antimicrobial susceptibility testing in in vitro endophthalmitis with matrix assisted laser desorption-ionization Time-of-Flight Mass Spectrometry and VITEK 2 without prior culture. PLoS ONE, 2019, 14, e0227071. | 2.5 | 7 |
| 59 | Peptidoglycan Contribution to the B Cell Superantigen Activity of Staphylococcal Protein A. MBio, 2021, 12, . | 4.1 | 7 |
| 60 | Distinct Pathways Carry Out Î± and Î² Galactosylation of Secondary Cell Wall Polysaccharide in Bacillus anthracis. Journal of Bacteriology, 2020, 202, . | 2.2 | 4 |
| 61 | Development of a Computational Model of Abscess Formation. Frontiers in Microbiology, 2018, 9, 1355. | 3.5 | 3 |
| 62 | Rapid Pathogen Identification With Direct Application of MALDI-TOF Mass Spectrometry on an Endophthalmitis Vitreous Sample Without Prior Culture. Journal of Vitreoretinal Diseases, 2019, 3, 255-259. | 0.7 | 3 |
| 63 | Extraction and Purification of Wall-Bound Polymers of Gram-Positive Bacteria. Methods in Molecular Biology, 2019, 1954, 47-57. | 0.9 | 3 |
| 64 | Sortases, Surface Proteins, and Their Roles inStaphylococcus aureusDisease and Vaccine Development. , 2019, , 173-188. | | 3 |
| 65 | What Genomics Has Taught Us about Gram-Positive Protein Secretion and Targeting. , 2014, , 301-326. | | 2 |
| 66 | Staphylococcus aureus TarP: A Brick in the Wall or Rosetta Stone?. Cell Host and Microbe, 2019, 25, 182-183. | 11.0 | 2 |
| 67 | Toward Optimization of a Rabbit Model of Staphylococcus aureus (USA300) Skin and Soft Tissue Infection. Microbiology Spectrum, 2022, 10, e0271621. | 3.0 | 2 |
| 68 | Title is missing!. , 2019, 14, e0227071. | | 0 |
| 69 | Title is missing!. , 2019, 14, e0227071. | | 0 |
| 70 | Title is missing!. , 2019, 14, e0227071. | | 0 |
| 71 | Title is missing!. , 2019, 14, e0227071. | | 0 |