# Peter Kraiczy

List of Publications by Year
in descending order



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|---|---|---|---|
| 97 papers | 5,547 citations | 66343 42 h-index | 85541 71 g-index |
| 101 all docs | 101 docs citations | 101 times ranked | 2388 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Host association of Borrelia burgdorferi sensu lato â€“ the key role of host complement. Trends in Microbiology, 2002, 10, 74-79. | 7.7 | 372 |
| 2 | Immune evasion ofBorrelia burgdorferi by acquisition of human complement regulators FHL-1/reconectin and Factor H. European Journal of Immunology, 2001, 31, 1674-1684. | 2.9 | 239 |
| 3 | Further Characterization of Complement Regulator-Acquiring Surface Proteins of Borrelia burgdorferi. Infection and Immunity, 2001, 69, 7800-7809. | 2.2 | 221 |
| 4 | Complement Resistance of Borrelia burgdorferi Correlates with the Expression of BbCRASP-1, a Novel Linear Plasmid-encoded Surface Protein That Interacts with Human Factor H and FHL-1 and Is Unrelated to Erp Proteins. Journal of Biological Chemistry, 2004, 279, 2421-2429. | 3.4 | 218 |
| 5 | Leptospira interrogans Endostatin-Like Outer Membrane Proteins Bind Host Fibronectin, Laminin and Regulators of Complement. PLoS ONE, 2007, 2, e1188. | 2.5 | 189 |
| 6 | New Insights Into CRASP-Mediated Complement Evasion in the Lyme Disease Enzootic Cycle. Frontiers in Cellular and Infection Microbiology, 2020, 10, 1. | 3.9 | 175 |
| 7 | LfhA, a Novel Factor H-Binding Protein of Leptospira interrogans. Infection and Immunity, 2006, 74, 2659-2666. | 2.2 | 165 |
| 8 | Functional characterization of BbCRASP-2, a distinct outer membrane protein of Borrelia burgdorferi that binds host complement regulators factor H and FHL-1. Molecular Microbiology, 2006, 61, 1220-1236. | 2.5 | 153 |
| 9 | Immune evasion of Borrelia burgdorferi: mapping of a complement-inhibitor factor H-binding site of BbCRASP-3, a novel member of the Erp protein family. European Journal of Immunology, 2003, 33, 697-707. | 2.9 | 147 |
| 10 | Complement escape of human pathogenic bacteria by acquisition of complement regulators. Molecular Immunology, 2006, 43, 31-44. | 2.2 | 130 |
| 11 | Complement regulator-acquiring surface proteins of Borrelia burgdorferi: Structure, function and regulation of gene expression. Ticks and Tick-borne Diseases, 2013, 4, 26-34. | 2.7 | 113 |
| 12 | Binding of Human Factor Hâ€“Related Protein 1 to Serumâ€ResistantBorrelia burgdorferiIs Mediated by Borrelial Complement Regulatorâ€“Acquiring Surface Proteins. Journal of Infectious Diseases, 2007, 196, 124-133. | 4.0 | 112 |
| 13 | Coordinated Expression of Borrelia burgdorferi Complement Regulator-Acquiring Surface Proteins during the Lyme Disease Spirochete's Mammal-Tick Infection Cycle. Infection and Immunity, 2007, 75, 4227-4236. | 2.2 | 110 |
| 14 | Mechanism of complement resistance of pathogenic Borrelia burgdorferi isolates. International Immunopharmacology, 2001, 1, 393-401. | 3.8 | 106 |
| 15 | Borrelia burgdorferi Infection-Associated Surface Proteins ErpP, ErpA, and ErpC Bind Human Plasminogen. Infection and Immunity, 2009, 77, 300-306. | 2.2 | 103 |
| 16 | Identification and Functional Characterization of Complement Regulator-Acquiring Surface Protein 1 of the Lyme Disease Spirochetes Borrelia afzelii and Borrelia garinii. Infection and Immunity, 2005, 73, 2351-2359. | 2.2 | 96 |
| 17 | Dual Binding Specificity of a Borrelia hermsii-Associated Complement Regulator-Acquiring Surface Protein for Factor H and Plasminogen Discloses a Putative Virulence Factor of Relapsing Fever Spirochetes. Journal of Immunology, 2007, 178, 7292-7301. | 0.8 | 95 |
| 18 | In Vitro Susceptibility Testing of Borrelia burgdorferi Sensu Lato Isolates Cultured from Patients with Erythema Migrans before and after Antimicrobial Chemotherapy. Antimicrobial Agents and Chemotherapy, 2005, 49, 1294-1301. | 3.2 | 88 |

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|---|---|---|---|
| 19 | CspA-Mediated Binding of Human Factor H Inhibits Complement Deposition and Confers Serum Resistance in Borrelia burgdorferi. Infection and Immunity, 2009, 77, 2773-2782. | 2.2 | 87 |
| 20 | CspA from Borrelia burgdorferi Inhibits the Terminal Complement Pathway. MBio, 2013, 4, . | 4.1 | 84 |
| 21 | Complement Regulatorâ€“Acquiring Surface Protein 1 ofBorrelia burgdorferiBinds to Human Bone Morphogenic Protein 2, Several Extracellular Matrix Proteins, and Plasminogen. Journal of Infectious Diseases, 2010, 202, 490-498. | 4.0 | 83 |
| 22 | Complement Factor H-Related Proteins CFHR2 and CFHR5 Represent Novel Ligands for the Infection-Associated CRASP Proteins of Borrelia burgdorferi. PLoS ONE, 2010, 5, e13519. | 2.5 | 78 |
| 23 | Borrelia recurrentis Employs a Novel Multifunctional Surface Protein with Anti-Complement, Anti-Opsonic and Invasive Potential to Escape Innate Immunity. PLoS ONE, 2009, 4, e4858. | 2.5 | 76 |
| 24 | Hide and Seek: How Lyme Disease Spirochetes Overcome Complement Attack. Frontiers in Immunology, 2016, 7, 385. | 4.8 | 74 |
| 25 | Interaction with the host: the role of fibronectin and extracellular matrix proteins in the adhesion of Gram-negative bacteria. Medical Microbiology and Immunology, 2020, 209, 277-299. | 4.8 | 73 |
| 26 | A novel fold for the factor Hâ€“binding protein BbCRASP-1 of Borrelia burgdorferi. Nature Structural and Molecular Biology, 2005, 12, 276-277. | 8.2 | 72 |
| 27 | Versatile Roles of CspA Orthologs in Complement Inactivation of Serum-Resistant Lyme Disease Spirochetes. Infection and Immunity, 2014, 82, 380-392. | 2.2 | 71 |
| 28 | Borrelia burgdorferi Regulates Expression of Complement Regulator-Acquiring Surface Protein 1 during the Mammal-Tick Infection Cycle. Infection and Immunity, 2005, 73, 7398-7405. | 2.2 | 69 |
| 29 | Comparison of Two Laboratory Methods for the Determination of Serum Resistance in Borrelia burgdorferi Isolates. Immunobiology, 2000, 201, 406-419. | 1.9 | 68 |
| 30 | Deciphering the Ligand-binding Sites in the Borrelia burgdorferi Complement Regulator-acquiring Surface Protein 2 Required for Interactions with the Human Immune Regulators Factor H and Factor H-like Protein 1. Journal of Biological Chemistry, 2008, 283, 34855-34863. | 3.4 | 64 |
| 31 | BGA66 and BGA71 facilitate complement resistance of Borrelia bavariensis by inhibiting assembly of the membrane attack complex. Molecular Microbiology, 2016, 99, 407-424. | 2.5 | 63 |
| 32 | Polymorphic factor H-binding activity of CspA protects Lyme borreliae from the host complement in feeding ticks to facilitate tick-to-host transmission. PLoS Pathogens, 2018, 14, e1007106. | 4.7 | 63 |
| 33 | Human PathogenicBorrelia spielmaniisp. nov. Resists Complement-Mediated Killing by Direct Binding of Immune Regulators Factor H and Factor H-Like Protein 1. Infection and Immunity, 2007, 75, 4817-4825. | 2.2 | 62 |
| 34 | Immunological characterization of the complement regulator factor H-binding CRASP and Erp proteins of Borrelia burgdorferi. International Journal of Medical Microbiology Supplements, 2004, 293, 152-157. | 0.4 | 58 |
| 35 | BBA70 of Borrelia burgdorferi Is a Novel Plasminogen-binding Protein. Journal of Biological Chemistry, 2013, 288, 25229-25243. | 3.4 | 57 |
| 36 | Staphylococcus aureus Proteins Sbi and Efb Recruit Human Plasmin to Degrade Complement C3 and C3b. PLoS ONE, 2012, 7, e47638. | 2.5 | 57 |

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|---|---|---|---|
| 37 | Whole-Genome Sequences of Borrelia bissettii, Borrelia valaisiana, and Borrelia spielmanii. Journal of Bacteriology, 2012, 194, 545-546. | 2.2 | 56 |
| 38 | TheAcinetobactertrimeric autotransporter adhesin Ata controls key virulence traits ofAcinetobacter baumannii. Virulence, 2019, 10, 68-81. | 4.4 | 55 |
| 39 | Borrelia burgdorferi complement regulator-acquiring surface proteins (BbCRASPs): Expression patterns during the mammalâ€“tick infection cycle. International Journal of Medical Microbiology, 2008, 298, 249-256. | 3.6 | 51 |
| 40 | Functional Characterization ofBorrelia spielmaniiOuter Surface Proteins That Interact with Distinct Members of the Human Factor H Protein Family and with Plasminogen. Infection and Immunity, 2010, 78, 39-48. | 2.2 | 50 |
| 41 | Contribution of the Infection-Associated Complement Regulator-Acquiring Surface Protein 4 (ErpC) to Complement Resistance ofBorrelia burgdorferi. Clinical and Developmental Immunology, 2012, 2012, 1-12. | 3.3 | 50 |
| 42 | Lyme Disease Pathogenesis. Current Issues in Molecular Biology, 2022, 42, 473-518. | 2.4 | 49 |
| 43 | CipA ofAcinetobacter baumanniiIs a Novel Plasminogen Binding and Complement Inhibitory Protein. Journal of Infectious Diseases, 2016, 213, 1388-1399. | 4.0 | 47 |
| 44 | Blood treatment of Lyme borreliae demonstrates the mechanism of <scp>CspZ</scp> â€mediated complement evasion to promote systemic infection in vertebrate hosts. Cellular Microbiology, 2019, 21, e12998. | 2.1 | 47 |
| 45 | Molecular Characterization of the Interaction ofBorrelia parkeriandBorrelia turicataewith Human Complement Regulators. Infection and Immunity, 2010, 78, 2199-2208. | 2.2 | 46 |
| 46 | Complement Evasion Contributes to Lyme Borreliaeâ€“Host Associations. Trends in Parasitology, 2020, 36, 634-645. | 3.3 | 46 |
| 47 | Binding of human complement regulators FHL-1 and factor H to CRASP-1 orthologs of Borrelia burgdorferi. Wiener Klinische Wochenschrift, 2006, 118, 669-676. | 1.9 | 42 |
| 48 | Immune evasion of Borrelia miyamotoi: CbiA, a novel outer surface protein exhibiting complement binding and inactivating properties. Scientific Reports, 2017, 7, 303. | 3.3 | 40 |
| 49 | Mutational analyses of the BbCRASP-1 protein of Borrelia burgdorferi identify residues relevant for the architecture and binding of host complement regulators FHL-1 and factor H. International Journal of Medical Microbiology, 2009, 299, 255-268. | 3.6 | 39 |
| 50 | Borrelia burgdorferi Complement Regulator-Acquiring Surface Protein 2 (CspZ) as a Serological Marker of Human Lyme Disease. Vaccine Journal, 2008, 15, 484-491. | 3.1 | 38 |
| 51 | Early Production of IL-22 but Not IL-17 by Peripheral Blood Mononuclear Cells Exposed to live Borrelia burgdorferi: The Role of Monocytes and Interleukin-1. PLoS Pathogens, 2010, 6, e1001144. | 4.7 | 38 |
| 52 | Immune evasion of Borrelia burgdorferi: Insufficient killing of the pathogens by complement and antibody. International Journal of Medical Microbiology, 2002, 291, 141-146. | 3.6 | 35 |
| 53 | Structureâ€“function mapping of BbCRASP-1, the key complement factor H and FHL-1 binding protein of Borrelia burgdorferi. International Journal of Medical Microbiology, 2006, 296, 177-184. | 3.6 | 34 |
| 54 | Eliminating Factor H-Binding Activity of Borrelia burgdorferi CspZ Combined with Virus-Like Particle Conjugation Enhances Its Efficacy as a Lyme Disease Vaccine. Frontiers in Immunology, 2018, 9, 181. | 4.8 | 32 |

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|---|---|---|---|
| 55 | Standardised in vitro susceptibility testing of Borrelia burgdorferi against well-known and newly developed antimicrobial agents â€" Possible implications for new therapeutic approaches to Lyme disease. International Journal of Medical Microbiology, 2002, 291, 125-137. | 3.6 | 31 |
| 56 | Identification and characterization of the factor H and FHL-1 binding complement regulator-acquiring surface protein 1 of the Lyme disease spirochete Borrelia spielmanii sp. nov.. International Journal of Medical Microbiology, 2009, 299, 141-154. | 3.6 | 30 |
| 57 | Travelling between Two Worlds: Complement as a Gatekeeper for an Expanded Host Range of Lyme Disease Spirochetes. Veterinary Sciences, 2016, 3, 12. | 1.7 | 30 |
| 58 | Comparison of In Vitro Activities of Ketolides, Macrolides, and an Azalide against the SpirocheteBorrelia burgdorferi. Antimicrobial Agents and Chemotherapy, 2004, 48, 344-347. | 3.2 | 28 |
| 59 | The evolving story of Borrelia burgdorferi sensu lato transmission in Europe. Parasitology Research, 2022, 121, 781-803. | 1.6 | 28 |
| 60 | Identification and functional characterisation of Complement Regulator Acquiring Surface Protein-1 of serum resistant Borrelia garinii OspA serotype 4. BMC Microbiology, 2010, 10, 43. | 3.3 | 27 |
| 61 | Borrelia burgdorferi Complement Regulator-Acquiring Surface Protein 1 of the Lyme Disease Spirochetes Is Expressed in Humans and Induces Antibody Responses Restricted to Nondenatured Structural Determinants. Infection and Immunity, 2006, 74, 7024-7028. | 2.2 | 26 |
| 62 | There Is a Method to the Madness: Strategies to Study Host Complement Evasion by Lyme Disease and Relapsing Fever Spirochetes. Frontiers in Microbiology, 2017, 8, 328. | 3.5 | 26 |
| 63 | In Vitro Activities of Fluoroquinolones against the SpirocheteBorrelia burgdorferi. Antimicrobial Agents and Chemotherapy, 2001, 45, 2486-2494. | 3.2 | 25 |
| 64 | Comparison of in vitro activities of tigecycline, doxycycline, and tetracycline against the spirochete Borrelia burgdorferi. Ticks and Tick-borne Diseases, 2010, 1, 30-34. | 2.7 | 24 |
| 65 | Further structural insights into the binding of complement factor H by complement regulator-acquiring surface protein 1 (CspA) ofBorrelia burgdorferi. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 629-633. | 0.7 | 24 |
| 66 | The Complement Binding and Inhibitory Protein CbiA of Borrelia miyamotoi Degrades Extracellular Matrix Components by Interacting with Plasmin(ogen). Frontiers in Cellular and Infection Microbiology, 2018, 8, 23. | 3.9 | 22 |
| 67 | Combination of microbiome analysis and serodiagnostics to assess the risk of pathogen transmission by ticks to humans and animals in central Germany. Parasites and Vectors, 2019, 12, 11. | 2.5 | 22 |
| 68 | Further Insights Into the Interaction of Human and Animal Complement Regulator Factor H With Viable Lyme Disease Spirochetes. Frontiers in Veterinary Science, 2018, 5, 346. | 2.2 | 22 |
| 69 | Elucidating the Immune Evasion Mechanisms of Borrelia mayonii, the Causative Agent of Lyme Disease. Frontiers in Immunology, 2019, 10, 2722. | 4.8 | 21 |
| 70 | Inadequate Binding of Immune Regulator Factor H Is Associated with Sensitivity ofBorrelia lusitaniaeto Human Complement. Infection and Immunity, 2010, 78, 4467-4476. | 2.2 | 19 |
| 71 | Complement regulator-acquiring surface proteins of Borrelia burgdorferi: a new protein family involved in complement resistance. Wiener Klinische Wochenschrift, 2002, 114, 568-73. | 1.9 | 19 |
| 72 | In Vitro Susceptibility of Borrelia spielmanii to Antimicrobial Agents Commonly Used for Treatment of Lyme Disease. Antimicrobial Agents and Chemotherapy, 2009, 53, 1281-1284. | 3.2 | 17 |

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|---|---|---|---|
| 73 | Host tropism determination by convergent evolution of immunological evasion in the Lyme disease system. PLoS Pathogens, 2021, 17, e1009801. | 4.7 | 16 |
| 74 | Borreliacidal activity of early Lyme disease sera against complement-resistant Borrelia afzelii FEM1 wild-type and an OspC-lacking FEM1 variant. Journal of Medical Microbiology, 2000, 49, 917-928. | 1.8 | 16 |
| 75 | Lipoproteome screening of the Lyme disease agent identifies inhibitors of antibody-mediated complement killing. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117770119. | 7.1 | 16 |
| 76 | Borrelia valaisiana Resist Complement-Mediated Killing Independently of the Recruitment of Immune Regulators and Inactivation of Complement Components. PLoS ONE, 2013, 8, e53659. | 2.5 | 15 |
| 77 | The Responsiveness of Human VÎ´1 Î³Î´ T Cells toBorrelia burgdorferiIs Largely Restricted to Synovialâ€Fluid Cells from Patients with Lyme Arthritis. Journal of Infectious Diseases, 2002, 186, 1043-1046. | 4.0 | 14 |
| 78 | Immune Evasion Strategies of Relapsing Fever Spirochetes. Frontiers in Immunology, 2020, 11, 1560. | 4.8 | 14 |
| 79 | Systematic analysis highlights the key role of TLR2/NF-ÎºB/MAP kinase signaling for IL-8 induction by macrophage-like THP-1 cells under influence of Borrelia burgdorferi lysates. International Journal of Biochemistry and Cell Biology, 2008, 40, 2508-2521. | 2.8 | 13 |
| 80 | The Factor H-Binding Site of CspZ as a Protective Target against Multistrain, Tick-Transmitted Lyme Disease. Infection and Immunity, 2020, 88, . | 2.2 | 13 |
| 81 | ErpC, a member of the complement regulator-acquiring family of surface proteins fromBorrelia burgdorferi, possesses an architecture previously unseen in this protein family. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 624-628. | 0.7 | 12 |
| 82 | Risk of culture-confirmed borrelial persistence in patients treated for erythema migrans and possible mechanisms of resistance. International Journal of Medical Microbiology, 2006, 296, 233-241. | 3.6 | 11 |
| 83 | A soft tick Ornithodoros moubata salivary protein OmCI is a potent inhibitor to prevent avian complement activation. Ticks and Tick-borne Diseases, 2020, 11, 101354. | 2.7 | 11 |
| 84 | FHR-1, an additional human plasma protein, binds to complement regulator-acquiring surface proteins of Borrelia burgdorferi. International Journal of Medical Microbiology, 2008, 298, 287-291. | 3.6 | 10 |
| 85 | BhCRASP-1 of the relapsing fever spirochete Borrelia hermsii is a factor H- and plasminogen-binding protein. International Journal of Medical Microbiology, 2008, 298, 272-283. | 3.6 | 10 |
| 86 | Crystallization and preliminary crystallographic analysis of BbCRASP-1, a complement regulator-acquiring surface protein ofBorrelia burgdorferi. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 929-932. | 2.5 | 9 |
| 87 | Interaction between Borrelia miyamotoi variable major proteins Vlp15/16 and Vlp18 with plasminogen and complement. Scientific Reports, 2021, 11, 4964. | 3.3 | 8 |
| 88 | Binding of complement regulatory protein factor H enhances serum resistance of Borrelia spielmanii sp. nov.. International Journal of Medical Microbiology, 2008, 298, 292-294. | 3.6 | 6 |
| 89 | Crystal structure of the membrane attack complex assembly inhibitor BGA71 from the Lyme disease agent Borrelia bavariensis. Scientific Reports, 2018, 8, 11286. | 3.3 | 5 |
| 90 | Bactericidal activity of avian complement: a contribution to understand avian-host tropism of Lyme borreliae. Parasites and Vectors, 2021, 14, 451. | 2.5 | 5 |

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|---|---|---|---|
| 91 | Inter- and intraspecies-specific adhesion of Lyme borreliae to human keratinocytes. Ticks and Tick-borne Diseases, 2019, 10, 207-212. | 2.7 | 4 |
| 92 | Assessment of the regions within complement regulator-acquiring surface protein (CRASP)-2 of Borrelia burgdorferi required for interaction with host immune regulators FHL-1 and factor H. International Journal of Medical Microbiology, 2008, 298, 268-271. | 3.6 | 3 |
| 93 | Borrelial Complement-Binding Proteins. , 2012, , 63-88. | | 3 |
| 94 | Changes in the expression pattern of structural proteins after exposure of Borrelia burgdorferi to penicillin G and doxycycline. International Journal of Medical Microbiology, 2008, 298, 325-332. | 3.6 | 2 |
| 95 | BbCRASP-1 of the Lyme disease spirochetes induces antibodies to non-denatured structural determinants in humans. International Journal of Medical Microbiology, 2008, 298, 284-286. | 3.6 | 1 |
| 96 | Identification and Characterization of Borrelia burgdorferi Complement-Binding Proteins. Methods in Molecular Biology, 2018, 1690, 95-103. | 0.9 | 1 |
| 97 | Utilizing Two Borrelia bavariensis Isolates Naturally Lacking the PFam54 Gene Array To Elucidate the Roles of PFam54-Encoded Proteins. Applied and Environmental Microbiology, 2022, 88, AEM0155521. | 3.1 | 0 |