Wilhelmina Huston

List of Publications by Year
in descending order

100 papers	2,983 citations	318942 23 h-index	206121 51 g-index
105 all docs	105 docs citations	105 times ranked	4615 citing authors

#	Article	IF	Citations
1	Design, synthesis and biological evaluation of P2-modified proline analogues targeting the HtrA serine protease in Chlamydia. European Journal of Medicinal Chemistry, 2022, 230, 114064.	2.6	2
2	Factors associated with pelvic inflammatory disease: A case series analysis of family planning clinic data. Women's Health, 2022, 18, 174550572211122.	0.7	2
3	Cervicovaginal microbiota and womenâ€™s health outcomes. Microbiology Australia, 2021, 42, 65.	0.1	0
4	Chlamydial clinical isolates show subtle differences in persistence phenotypes and growth in vitro. Access Microbiology, 2021, 3, 000204.	0.2	1
5	Koala cathelicidin PhciCath5 has antimicrobial activity, including against Chlamydia pecorum. PLoS ONE, 2021, 16, e0249658.	1.1	6
6	Dual RNA-seq analysis of in vitro infection multiplicity and RNA depletion methods in Chlamydia-infected epithelial cells. Scientific Reports, 2021, 11, 10399.	1.6	6
7	Ascension of Chlamydia is moderated by uterine peristalsis and the neutrophil response to infection. PLoS Computational Biology, 2021, 17, e1009365.	1.5	2
8	Optimization of peptide-based inhibitors targeting the HtrA serine protease in Chlamydia: Design, synthesis and biological evaluation of pyridone-based and N-Capping group-modified analogues. European Journal of Medicinal Chemistry, 2021, 224, 113692.	2.6	12
9	Chromatin accessibility dynamics of Chlamydia-infected epithelial cells. Epigenetics and Chromatin, 2020, 13, 45.	1.8	6
10	A retrospective cohort study examining STI testing and perinatal records demonstrates reproductive health burden of chlamydia and gonorrhea. Pathogens and Disease, 2020, 78, .	0.8	3
11	Editorial: Interplay of Infection and Microbiome. Frontiers in Cellular and Infection Microbiology, 2020, 10, 304.	1.8	0
12	Structure-activity analysis of peptidic Chlamydia HtrA inhibitors. Bioorganic and Medicinal Chemistry, 2019, 27, 4185-4199.	1.4	6
13	Structure and Metal Binding Properties of Chlamydia trachomatis YtgA. Journal of Bacteriology, 2019, 202, .	1.0	11
14	Oxidoreductase disulfide bond proteins DsbA and DsbB form an active redox pair in Chlamydia trachomatis, a bacterium with disulfide dependent infection and development. PLoS ONE, 2019, 14, e0222595.	1.1	3
15	Life inside and out: making and breaking protein disulfide bonds inChlamydia. Critical Reviews in Microbiology, 2019, 45, 33-50.	2.7	11
16	Evaluation of a PGP3 ELISA for surveillance of the burden of Chlamydia infection in women from Australia and Samoa. Pathogens and Disease, 2019, 77, .	0.8	3
17	A sponsorship action plan for increasing diversity in STEMM. Ecology and Evolution, 2019, 9, 2340-2345.	0.8	17
18	High expression of IDO1 and TGF-Î²1 during recurrence and post infection clearance with Chlamydia trachomatis, are independent of host IFN-Î³ response. BMC Infectious Diseases, 2019, 19, 218.	1.3	19

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19	Fresh faces and new approaches at Pathogens and Disease. Pathogens and Disease, 2019, 77, .	0.8	0
20	O05.5â€…A case control study to examine the cervico-vaginal microbiota associated with pelvic inflammatory disease. , 2019, , .		0
21	P070â€…Determination of antibiotic susceptibility and efficacy by VITA-PCR. , 2019, , .		0
22	P478â€…Is chlamydia and gonorrhoea testing associated with pregnancy outcomes? A retrospective data-linkage cohort study. , 2019, , .		0
23	P467â€…Factors associated with anorectal chlamydia or gonorrhoea test positivity in women â€“ a systematic review and meta-analysis. , 2019, , .		0
24	Spotlight onâ€¦Wilhelmina M. Huston. FEMS Microbiology Letters, 2019, 366, .	0.7	0
25	Early Transcriptional Landscapes of Chlamydia trachomatis-Infected Epithelial Cells at Single Cell Resolution. Frontiers in Cellular and Infection Microbiology, 2019, 9, 392.	1.8	14
26	Uptake and Depuration Kinetics Influence Microplastic Bioaccumulation and Toxicity in Antarctic Krill (Euphausia superba). Environmental Science & Technology, 2018, 52, 3195-3201.	4.6	129
27	Characterization of the In Vitro Chlamydia pecorum Response to Gamma Interferon. Infection and Immunity, 2018, 86, .	1.0	11
28	A retrospective pilot study to determine whether the reproductive tract microbiota differs between women with a history of infertility and fertile women. Australian and New Zealand Journal of Obstetrics and Gynaecology, 2018, 58, 341-348.	0.4	104
29	Expression of common biomarkers in Antarctic krill (Euphausia superba) exposed to an organochlorine contaminant. Polar Biology, 2018, 41, 505-513.	0.5	8
30	Turning microplastics into nanoplastics through digestive fragmentation by Antarctic krill. Nature Communications, 2018, 9, 1001.	5.8	632
31	Stereochemical basis for the anti-chlamydial activity of the phosphonate protease inhibitor JO146. Tetrahedron, 2018, 74, 1184-1190.	1.0	5
32	Proteases and protease inhibitors in infectious diseases. Medicinal Research Reviews, 2018, 38, 1295-1331.	5.0	130
33	A laboratory competency examination in microbiology. FEMS Microbiology Letters, 2018, 365, .	0.7	5
34	CtGEM typing: Discrimination of Chlamydia trachomatis ocular and urogenital strains and major evolutionary lineages by high resolution melting analysis of two amplified DNA fragments. PLoS ONE, 2018, 13, e0195454.	1.1	9
35	Cloacal and Ocular Microbiota of the Endangered Australian Northern Quoll. Microorganisms, 2018, 6, 68.	1.6	5
36	Advancing the public health applications of Chlamydia trachomatis serology. Lancet Infectious Diseases, The, 2018, 18, e399-e407.	4.6	51

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37	Dysbiosis of the Vaginal Microbiota and Higher Vaginal Kynurenine/Tryptophan Ratio Reveals an Association with Chlamydia trachomatis Genital Infections. Frontiers in Cellular and Infection Microbiology, 2018, 8, 1.	1.8	155
38	Detection of Chlamydia trachomatis mRNA using digital PCR as a more accurate marker of viable organism. European Journal of Clinical Microbiology and Infectious Diseases, 2018, 37, 2117-2122.	1.3	11
39	Cervicovaginal microbiota, women's health, and reproductive outcomes. Fertility and Sterility, 2018, 110, 327-336.	0.5	165
40	CtHtrA: the lynchpin of the chlamydial surface and a promising therapeutic target. Future Microbiology, 2017, 12, 817-829.	1.0	7
41	The blubber adipocyte index: A nondestructive biomarker of adiposity in humpback whales (Megaptera novaeangliae). Ecology and Evolution, 2017, 7, 5131-5139.	0.8	22
42	Laser-mediated rupture of chlamydial inclusions triggers pathogen egress and host cell necrosis. Nature Communications, 2017, 8, 14729.	5.8	17
43	Molecular evidence of Chlamydia pecorum and arthropod-associated Chlamydiae in an expanded range of marsupials. Scientific Reports, 2017, 7, 12844.	1.6	8
44	Copper(II)-bis(thiosemicarbazonato) complexes as anti-chlamydial agents. Pathogens and Disease, 2017, 75, .	0.8	5
45	Systemic Antibody Response to Chlamydia Trachomatis Infection in Patients Either Infected or Reinfected with Different Chlamydia Serovars. Indian Journal of Medical Microbiology, 2017, 35, 394-401.	0.3	2
46	Targeting the master regulator mTOR: a new approach to prevent the neurological of consequences of parasitic infections?. Parasites and Vectors, 2017, 10, 581.	1.0	5
47	Chlamydia trachomatis Infection. , 2017, , 51-67.		1
48	Measurement of tissue azithromycin levels in self-collected vaginal swabs post treatment using liquid chromatography and tandem mass spectrometry (LC-MS/MS). PLoS ONE, 2017, 12, e0177615.	1.1	8
49	Structural basis for the hijacking of endosomal sorting nexin proteins by Chlamydia trachomatis. ELife, 2017, 6, .	2.8	55
50	Structural and Biochemical Characterization of Chlamydia trachomatis DsbA Reveals a Cysteine-Rich and Weakly Oxidising Oxidoreductase. PLoS ONE, 2016, 11, e0168485.	1.1	10
51	Chlamydia Serine Protease Inhibitor, targeting HtrA, as a New Treatment for Koala Chlamydia infection. Scientific Reports, 2016, 6, 31466.	1.6	27
52	Sortilin is associated with the chlamydial inclusion and is modulated during infection. Biology Open, 2016, 5, 429-435.	0.6	4
53	In vitro rescue of genital strains of Chlamydia trachomatis from interferon-Î³ and tryptophan depletion with indole-positive, but not indole-negative Prevotella spp.. BMC Microbiology, 2016, 16, 286.	1.3	48
54	Cyclicâ€diâ€‹<scp>AMP</scp> synthesis by the diadenylate cyclase <scp>CdaA</scp> is modulated by the peptidoglycan biosynthesis enzyme <scp>GlmM</scp> in <scp>L</scp>actococcus lactis. Molecular Microbiology, 2016, 99, 1015-1027.	1.2	61

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55	Chlamydia trachomatis Genital Tract Infections: When Host Immune Response and the Microbiome Collide. Trends in Microbiology, 2016, 24, 750-765.	3.5	64
56	Sero-epidemiological assessment of Chlamydia trachomatis infection and sub-fertility in Samoan women. BMC Infectious Diseases, 2016, 16, 175.	1.3	15
57	Environmental Legionella spp. collected in urban test sites of South East Queensland, Australia, are virulent to human macrophages inÂvitro. Research in Microbiology, 2016, 167, 149-153.	1.0	3
58	CXCL10, CXCL11, HLA-A and IL-1Î² are induced in peripheral blood mononuclear cells from women withChlamydia trachomatisrelated infertility. Pathogens and Disease, 2016, 74, ftv099.	0.8	3
59	Development and evaluation of a multi-antigen peptide ELISA for the diagnosis of Chlamydia trachomatis-related infertility in women. Journal of Medical Microbiology, 2016, 65, 915-922.	0.7	13
60	Treatment of rectal chlamydia infection may be more complicated than we originally thought. Journal of Antimicrobial Chemotherapy, 2015, 70, 961-964.	1.3	37
61	InÂvitro susceptibility of recent Chlamydia trachomatis clinical isolates to the CtHtrA inhibitor JO146. Microbes and Infection, 2015, 17, 738-744.	1.0	12
62	Phylogenetic analysis of human Chlamydia pneumoniae strains reveals a distinct Australian indigenous clade that predates European exploration of the continent. BMC Genomics, 2015, 16, 1094.	1.2	5
63	A Chlamydia trachomatis strain with a chemically generated amino acid substitution (P370L) in the cthtrA gene shows reduced elementary body production. BMC Microbiology, 2015, 15, 194.	1.3	8
64	Comparative genomic analysis of human Chlamydia pneumoniae isolates from respiratory, brain and cardiac tissues. Genomics, 2015, 106, 373-383.	1.3	23
65	The efficacy of azithromycin and doxycycline for the treatment of rectal chlamydia infection: a systematic review and meta-analysis. Journal of Antimicrobial Chemotherapy, 2015, 70, 1290-1297.	1.3	111
66	Human Chlamydia pneumoniae isolates demonstrate ability to recover infectivity following penicillin treatment whereas animal isolates do not. FEMS Microbiology Letters, 2015, 362, .	0.7	2
67	Human and Pathogen Factors Associated with Chlamydia trachomatis-Related Infertility in Women. Clinical Microbiology Reviews, 2015, 28, 969-985.	5.7	117
68	The Epidemiology of Chlamydia trachomatis Organism Load During Genital Infection: A Systematic Review. Journal of Infectious Diseases, 2015, 211, 1628-1645.	1.9	46
69	Characterization of the tail-specific protease (Tsp) from Legionella. Journal of General and Applied Microbiology, 2014, 60, 95-100.	0.4	7
70	Increased sensitivity to tryptophan bioavailability is a positive adaptation by the human strains of <scp>C</scp>hlamydia pneumoniae. Molecular Microbiology, 2014, 93, 797-813.	1.2	15
71	Evidence of a conserved role for Chlamydia HtrA in the replication phase of the chlamydial developmental cycle. Microbes and Infection, 2014, 16, 690-694.	1.0	17
72	Detoxification enzyme activities (CYP1A1 and GST) in the skin of humpback whales as a function of organochlorine burdens and migration status. Aquatic Toxicology, 2014, 155, 207-212.	1.9	17

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73	Evolution to a Chronic Disease Niche Correlates with Increased Sensitivity to Tryptophan Availability for the Obligate Intracellular Bacterium Chlamydia pneumoniae. Journal of Bacteriology, 2014, 196, 1915-1924.	1.0	11
74	Proof of concept: A bioinformatic and serological screening method for identifying new peptide antigens for Chlamydia trachomatis related sequelae in women. Results in Immunology, 2013, 3, 33-39.	2.2	13
75	A cohort study of Chlamydia trachomatis treatment failure in women: a study protocol. BMC Infectious Diseases, 2013, 13, 379.	1.3	24
76	The IL-6 response to Chlamydia from primary reproductive epithelial cells is highly variable and may be involved in differential susceptibility to the immunopathological consequences of chlamydial infection. BMC Immunology, 2013, 14, 50.	0.9	22
77	Identification of a serine protease inhibitor which causes inclusion vacuole reduction and is lethal to <scp>C</scp>hlamydia trachomatis. Molecular Microbiology, 2013, 89, 676-689.	1.2	55
78	Characterization of In Vitro Chlamydia muridarum Persistence and Utilization in an In Vivo Mouse Model of <scp>C</scp>hlamydia Vaccine. American Journal of Reproductive Immunology, 2013, 69, 475-485.	1.2	14
79	Proteolytic activation of Chlamydia trachomatis HTRA is mediated by PDZ1 domain interactions with protease domain loops L3 and LC and beta strand Î²5. Cellular and Molecular Biology Letters, 2013, 18, 522-37.	2.7	10
80	The protease inhibitor JO146 demonstrates a critical role for CtHtrA for Chlamydia trachomatis reversion from penicillin persistence. Frontiers in Cellular and Infection Microbiology, 2013, 3, 100.	1.8	17
81	Vaccination to protect against infection of the female reproductive tract. Expert Review of Clinical Immunology, 2012, 8, 81-94.	1.3	14
82	The Active Site Residue V266 of Chlamydial HtrA Is Critical for Substrate Binding during both in vitro and in vivo Conditions. Journal of Molecular Microbiology and Biotechnology, 2012, 22, 10-16.	1.0	13
83	Unique Residues Involved in Activation of the Multitasking Protease/Chaperone HtrA from Chlamydia trachomatis. PLoS ONE, 2011, 6, e24547.	1.1	26
84	Apoptosis is Induced in Chlamydia trachomatis-infected HEp-2 Cells by the Addition of a Combination Innate Immune Activation Compounds and the Inhibitor Wedelolactone. American Journal of Reproductive Immunology, 2011, 65, 460-465.	1.2	9
85	Cytochrome P450 isozyme protein verified in the skin of southern hemisphere humpback whales (Megaptera novaeangliae): Implications for biochemical biomarker assessment. Marine Pollution Bulletin, 2011, 62, 758-761.	2.3	15
86	HtrA, RseP, and Tsp proteins do not elicit a pathology-related serum IgG response during sexually transmitted infection with Chlamydia trachomatis. Journal of Reproductive Immunology, 2010, 85, 168-171.	0.8	10
87	Bacterial proteases from the intracellular vacuole niche; protease conservation and adaptation for pathogenic advantage. FEMS Immunology and Medical Microbiology, 2010, 59, 1-10.	2.7	9
88	Chlamydial Infection of Immune Cells: Altered Function and Implications for Disease. Critical Reviews in Immunology, 2009, 29, 275-305.	1.0	70
89	Functional analysis of the multi-copper oxidase from Legionella pneumophila. Microbes and Infection, 2008, 10, 497-503.	1.0	17
90	Chlamydia trachomatis responds to heat shock, penicillin induced persistence, and IFN-gamma persistence by altering levels of the extracytoplasmic stress response protease HtrA. BMC Microbiology, 2008, 8, 190.	1.3	65

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91	Random Mutagenesis Identifies Novel Genes Involved in the Secretion of Antimicrobial, Cell Wall-Lytic Enzymes by Lactococcus lactis. Applied and Environmental Microbiology, 2008, 74, 7490-7496.	1.4	6
92	Delivery of Nitric Oxide for Analysis of the Function of Cytochrome câ€². Methods in Enzymology, 2008, 436, 21-33.	0.4	3
93	Expression and characterisation of a major c-type cytochrome encoded by gene kustc0563 from Kuenenia stuttgartiensis as a recombinant protein in Escherichia coli. Protein Expression and Purification, 2007, 51, 28-33.	0.6	14
94	The temperature activated HtrA protease from pathogenChlamydia trachomatisacts as both a chaperone and protease at 37 Â°C. FEBS Letters, 2007, 581, 3382-3386.	1.3	46
95	Heterologous Overexpression and Purification of Cytochrome câ€˜ from Rhodobacter capsulatus and a Mutant (K42E) in the Dimerization Region. Mutation Does Not Alter Oligomerization but Impacts the Heme Iron Spin State and Nitric Oxide Binding Properties. Biochemistry, 2006, 45, 4388-4395.	1.2	10
96	Purification and characterization of cytochrome câ€² from Neisseria meningitidis. Biochemical Society Transactions, 2005, 33, 187-189.	1.6	4
97	Survey of Ferroxidase Expression and Siderophore Production in Clinical Isolates of Pseudomonas aeruginosa. Journal of Clinical Microbiology, 2004, 42, 2806-2809.	1.8	18
98	The multicopper oxidase of Pseudomonas aeruginosa is a ferroxidase with a central role in iron acquisition. Molecular Microbiology, 2002, 45, 1741-1750.	1.2	95
99	Control of dimethylsulfoxide reductase expression in Rhodobacter capsulatus: the role of carbon metabolites and the response regulators DorR and RegA. Microbiology (United Kingdom), 2002, 148, 605-614.	0.7	29
100	â€˜Iâ€™m not aloneâ€™: outcomes of a faculty-wide initiative for co-creating inclusive science curricula through studentâ€“staff partnership. International Journal for Academic Development, 0, , 1-14.	0.8	2