Jeffrey D Cirillo

List of Publications by Year
in descending order

129 papers	4,932 citations	109321 35 h-index	106344 65 g-index
136 all docs	136 docs citations	136 times ranked	5693 citing authors

#	Article	IF	Citations
1	[25] Genetic systems for mycobacteria. Methods in Enzymology, 1991, 204, 537-555.	1.0	426
2	Antibacterial activities of gold and silver nanoparticles against Escherichia coli and bacillus Calmette-GuÃ©rin. Journal of Nanobiotechnology, 2012, 10, 19.	9.1	401
3	Growth of Legionella pneumophila in Acanthamoeba castellanii enhances invasion. Infection and Immunity, 1994, 62, 3254-3261.	2.2	338
4	Indole and 7â€hydroxyindole diminish Pseudomonas aeruginosa virulence. Microbial Biotechnology, 2009, 2, 75-90.	4.2	214
5	Intracellular Growth inAcanthamoeba castellaniiAffects Monocyte Entry Mechanisms and Enhances Virulence ofLegionella pneumophila. Infection and Immunity, 1999, 67, 4427-4434.	2.2	204
6	Imaging tuberculosis with endogenous Î²-lactamase reporter enzyme fluorescence in live mice. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12239-12244.	7.1	168
7	Rapid point-of-care detection of the tuberculosis pathogen using a BlaC-specific fluorogenic probe. Nature Chemistry, 2012, 4, 802-809.	13.6	154
8	Identification of novel loci involved in entry by Legionella pneumophila The GenBank accession numbers for the enh1 and enh2 loci reported in this paper are AF057703 and AF057704, respectively.. Microbiology (United Kingdom), 2000, 146, 1345-1359.	1.8	119
9	A novel transposon trap for mycobacteria: isolation and characterization of IS1096. Journal of Bacteriology, 1991, 173, 7772-7780.	2.2	109
10	Effects of an isogenic Zn-metalloprotease-deficien mutant of Legionella pneumophila in a guinea-pig pneumonia model. Molecular Microbiology, 1994, 12, 693-705.	2.5	105
11	Legionella pneumophila Entry GenertxA Is Involved in Virulence. Infection and Immunity, 2001, 69, 508-517.	2.2	104
12	Bioluminescent imaging of Borrelia burgdorferi in vivo demonstrates that the fibronectinâ€binding protein BBK32 is required for optimal infectivity. Molecular Microbiology, 2011, 82, 99-113.	2.5	97
13	A Humanized Mouse Model of Tuberculosis. PLoS ONE, 2013, 8, e63331.	2.5	94
14	Efficacy of Antimicrobial Peptoids against Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2011, 55, 3058-3062.	3.2	93
15	A Mycobacterium marinum TesA mutant defective for major cell wallâ€associated lipids is highly attenuated in Dictyostelium discoideum and zebrafish embryos. Molecular Microbiology, 2011, 80, 919-934.	2.5	82
16	100 years of Bacillus Calmetteâ€“GuÃ©rin immunotherapy: from cattle to COVID-19. Nature Reviews Urology, 2021, 18, 611-622.	3.8	80
17	Mycobacterium tuberculosis Dissemination Plays a Critical Role in Pathogenesis. Frontiers in Cellular and Infection Microbiology, 2020, 10, 65.	3.9	78
18	Genetic and Phenotypic Differences between Legionella pneumophila Strains. Journal of Clinical Microbiology, 2002, 40, 1352-1362.	3.9	75

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19	Fluorogenic Probes with Substitutions at the 2 and 7 Positions of Cephalosporin are Highly BlaCâ€Specific for Rapid Mycobacterium tuberculosis Detection. Angewandte Chemie - International Edition, 2014, 53, 9360-9364.	13.8	74
20	Pseudomonas aeruginosa PAO1 virulence factors and poplar tree response in the rhizosphere. Microbial Biotechnology, 2008, 1, 17-29.	4.2	69
21	Identification of Mycobacterium avium pathogenicity island important for macrophage and amoeba infection. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11038-11043.	7.1	65
22	Pulmonary Tuberculosis in Humanized Mice Infected with HIV-1. Scientific Reports, 2016, 6, 21522.	3.3	62
23	Isolation and characterization of the aspartokinase and aspartate semialdehyde dehydrogenase operon from mycobacteria. Molecular Microbiology, 1994, 11, 629-639.	2.5	60
24	Protection ofMycobacterium tuberculosisfrom Reactive Oxygen Species Conferred by themel2Locus Impacts Persistence and Dissemination. Infection and Immunity, 2009, 77, 2557-2567.	2.2	57
25	Identification of a Gene That Affects the Efficiency of Host Cell Infection by Legionella pneumophila in a Temperature-Dependent Fashion. Infection and Immunity, 2003, 71, 6256-6263.	2.2	52
26	Mesenchymal stem cells internalize Mycobacterium tuberculosis through scavenger receptors and restrict bacterial growth through autophagy. Scientific Reports, 2017, 7, 15010.	3.3	51
27	Fish Monocytes as a Model for Mycobacterial Host-Pathogen Interactions. Infection and Immunity, 2001, 69, 7310-7317.	2.2	48
28	DNA hypermethylation during tuberculosis dampens host immune responsiveness. Journal of Clinical Investigation, 2020, 130, 3113-3123.	8.2	47
29	Development of a transposon mutagenesis system forMycobacterium aviumsubsp.paratuberculosis. FEMS Microbiology Letters, 1999, 175, 21-26.	1.8	43
30	Bacterial Vaccine Vectors and Bacillus Calmette-Guerin. Clinical Infectious Diseases, 1995, 20, 1001-1009.	5.8	42
31	Molecular Nanomachines Disrupt Bacterial Cell Wall, Increasing Sensitivity of Extensively Drug-Resistant Klebsiella pneumoniae to Meropenem. ACS Nano, 2019, 13, 14377-14387.	14.6	42
32	Role of the Legionella pneumophila rtxA gene in amoebae. Microbiology (United Kingdom), 2002, 148, 1667-1677.	1.8	42
33	Recombinant BCG as a candidate oral vaccine vector. Research in Microbiology, 1990, 141, 931-939.	2.1	41
34	Evidence that hsp90 Is Involved in the Altered Interactions of Acanthamoeba castellanii Variants with Bacteria. Eukaryotic Cell, 2004, 3, 567-578.	3.4	41
35	Identification of Two Mycobacterium marinum Loci That Affect Interactions with Macrophages. Infection and Immunity, 2004, 72, 6902-6913.	2.2	38
36	Identification of Mycobacterium avium Genes That Affect Invasion of the Intestinal Epithelium. Infection and Immunity, 2005, 73, 4214-4221.	2.2	37

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37	Non-Opsonic Phagocytosis of Legionella pneumophila by Macrophages Is Mediated by Phosphatidylinositol 3-Kinase. PLoS ONE, 2008, 3, e3324.	2.5	35
38	Identification of a secreted superoxide dismutase inMycobacterium aviumssp.paratuberculosis. FEMS Microbiology Letters, 2001, 202, 233-238.	1.8	34
39	Identification of Mycobacterium marinum macrophage infection mutants. Microbial Pathogenesis, 2006, 40, 139-151.	2.9	31
40	Application of optical imaging to study of extrapulmonary spread by tuberculosis. Tuberculosis, 2009, 89, S15-S17.	1.9	31
41	Entry mechanisms of mycobacteria. Frontiers in Bioscience - Landmark, 2001, 6, d737.	3.0	30
42	A Mycobacterium marinum mel2 Mutant Is Defective for Growth in Macrophages That Produce Reactive Oxygen and Reactive Nitrogen Species. Infection and Immunity, 2007, 75, 127-134.	2.2	29
43	The Mycobacterium marinum mel2 locus displays similarity to bacterial bioluminescence systems and plays a role in defense against reactive oxygen and nitrogen species. BMC Microbiology, 2007, 7, 4.	3.3	29
44	Genetic determination of the meso-diaminopimelate biosynthetic pathway of mycobacteria. Journal of Bacteriology, 1994, 176, 4424-4429.	2.2	28
45	Application of Fluorescent Protein Expressing Strains to Evaluation of Anti-Tuberculosis Therapeutic Efficacy In Vitro and In Vivo. PLoS ONE, 2016, 11, e0149972.	2.5	28
46	Dual activity of niclosamide to suppress replication of integrated HIV-1 and Mycobacterium tuberculosis (Beijing). Tuberculosis, 2019, 116, S28-S33.	1.9	27
47	Exploring a novel perspective on pathogenic relationships. Trends in Microbiology, 1999, 7, 96-98.	7.7	26
48	Polyelectrolyte Multilayer Nanocoating Dramatically Reduces Bacterial Adhesion to Polyester Fabric. ACS Biomaterials Science and Engineering, 2017, 3, 1845-1852.	5.2	25
49	Tuberculosis endotypes to guide stratified host-directed therapy. Med, 2021, 2, 217-232.	4.4	24
50	Schistosome Soluble Egg Antigen DecreasesMycobacterium tuberculosisâ€“Specific CD4⁺T-Cell Effector Function With Concomitant Arrest of Macrophage Phago-Lysosome Maturation. Journal of Infectious Diseases, 2016, 214, 479-488.	4.0	21
51	Hetero-Multivalency of Pseudomonas aeruginosa Lectin LecA Binding to Model Membranes. Scientific Reports, 2018, 8, 8419.	3.3	21
52	Reporter enzyme fluorescence (REF) imaging and quantification of tuberculosis in live animals. Virulence, 2010, 1, 558-562.	4.4	20
53	The Caenorhabditis elegans p38 MAPK Gene plays a key role in protection from mycobacteria. MicrobiologyOpen, 2016, 5, 436-452.	3.0	20
54	Zinc limitation triggers anticipatory adaptations in Mycobacterium tuberculosis. PLoS Pathogens, 2021, 17, e1009570.	4.7	20

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55	Mycobacterium tuberculosisInterferes with the Response to Infection by Inducing the Host EphA2 Receptor. Journal of Infectious Diseases, 2009, 199, 1797-1806.	4.0	19
56	Real-Time Bioluminescence Imaging of Mixed Mycobacterial Infections. PLoS ONE, 2014, 9, e108341.	2.5	19
57	Real-time Imaging ofMycobacterium tuberculosis, Using a Novel Near-Infrared Fluorescent Substrate. Journal of Infectious Diseases, 2017, 215, jiw298.	4.0	19
58	Fiber optic microendoscopy for preclinical study of bacterial infection dynamics. Biomedical Optics Express, 2011, 2, 1121.	2.9	18
59	Intravital Fluorescence Excitation in Whole-Animal Optical Imaging. PLoS ONE, 2016, 11, e0149932.	2.5	18
60	Genome diversity among regional populations of Francisella tularensis subspecies tularensis and Francisella tularensis subspecies holarctica isolated from the US. FEMS Microbiology Letters, 2004, 237, 9-17.	1.8	17
61	Gene expression signatures identify biologically and clinically distinct tuberculosis endotypes. European Respiratory Journal, 2022, 60, 2102263.	6.7	17
62	Infection of murine macrophage cell lines by Legionella pneumophila. FEMS Microbiology Letters, 2004, 230, 147-152.	1.8	16
63	Thioaptamer targeted discoidal microparticles increase self immunity and reduce Mycobacterium tuberculosis burden in mice. Journal of Controlled Release, 2017, 266, 238-247.	9.9	16
64	Molecular Nanomachines Can Destroy Tissue or Kill Multicellular Eukaryotes. ACS Applied Materials & Interfaces, 2020, 12, 13657-13670.	8.0	16
65	The <scp>EAL</scp> domain containing protein <scp>STM</scp>2215 (rtn) is needed during <scp>S</scp>almonella infection and has cyclic diâ€<scp>GMP</scp> phosphodiesterase activity. Molecular Microbiology, 2013, 89, 403-419.	2.5	15
66	Increased DNA methylation, cellular senescence and premature epigenetic aging in guinea pigs and humans with tuberculosis. Aging, 2022, 14, 2174-2193.	3.1	15
67	Wholeâ€Body Imaging of Infection Using Fluorescence. Current Protocols in Microbiology, 2011, 21, Unit 2C.3.	6.5	14
68	Wholeâ€Body Imaging of Infection Using Bioluminescence. Current Protocols in Microbiology, 2011, 21, Unit 2C.4.	6.5	14
69	Using Luciferase to Image Bacterial Infections in Mice. Journal of Visualized Experiments, 2011, , .	0.3	13
70	Rational design of drug-like compounds targeting Mycobacterium marinum MelF protein. PLoS ONE, 2017, 12, e0183060.	2.5	13
71	Cell Sorting of Formalin-Treated Pathogenic Mycobacterium paratuberculosis Expressing GFP. BioTechniques, 2002, 32, 522-527.	1.8	12
72	Design of Ciprofloxacin Derivatives that Inhibit Growth of Methicillin Resistant Staphylococcus aureus (MRSA) and Methicillin Susceptible Staphylococcus aureus (MSSA). Medicinal Chemistry, 2010, 6, 51-56.	1.5	12

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73	Bacteria repelling on highly-ordered alumina-nanopore structures. Journal of Applied Physics, 2015, 117, 155302.	2.5	11
74	Molecular analysis of the Mycobacterium tuberculosis lux-like mel2 operon. Tuberculosis, 2013, 93, S83-S87.	1.9	10
75	Intravital excitation increases detection sensitivity for pulmonary tuberculosis by wholeâ€body imaging with Î²â€lactamase reporter enzyme fluorescence. Journal of Biophotonics, 2017, 10, 821-829.	2.3	10
76	Rapid Tuberculosis Diagnosis Using Reporter Enzyme Fluorescence. Journal of Clinical Microbiology, 2019, 57, .	3.9	10
77	Small Molecule Hydrazide Agents to Inhibit Growth and Proliferation of Mycobacterium Tuberculosis. Medicinal Chemistry, 2012, 8, 273-280.	1.5	10
78	New directions using reporter enzyme fluorescence (REF) as a tuberculosis diagnostic platform. Tuberculosis, 2016, 101, S78-S82.	1.9	9
79	Safety and delivery efficiency of a photodynamic treatment of the lungs using indocyanine green and extracorporeal near infrared illumination. Journal of Biophotonics, 2020, 13, e202000176.	2.3	9
80	Phage-Encoded Cationic Antimicrobial Peptide Required for Lysis. Journal of Bacteriology, 2022, 204, JB0021421.	2.2	8
81	Entry into host cells by Legionella. Frontiers in Bioscience - Landmark, 2002, 7, d1.	3.0	8
82	Efficacy of Cathelicidin-Mimetic Antimicrobial Peptoids against Staphylococcus aureus. Microbiology Spectrum, 2022, 10, e0053422.	3.0	8
83	Antibacterial Activity of Dipeptide Constructs of Acetylsalicylic Acid and Nicotinic Acid. Drug Delivery, 2007, 14, 105-109.	5.7	7
84	Fabrication and Characterization of Optical Tissue Phantoms Containing Macrostructure. Journal of Visualized Experiments, 2018, , .	0.3	7
85	Bifunctional constructs of aspirin and ibuprofen (non-steroidal anti-inflammatory drugs; NSAIDs) that express antibacterial and alkylation activities. Biotechnology and Applied Biochemistry, 2003, 37, 273.	3.1	6
86	Use of Gene Dosage Effects for a Whole-Genome Screen To Identify Mycobacterium marinum Macrophage Infection Loci. Infection and Immunity, 2008, 76, 3100-3115.	2.2	6
87	In vitro model of mycobacteria and HIV-1 co-infection for drug discovery. Tuberculosis, 2013, 93, S66-S70.	1.9	6
88	Coiling Phagocytosis is the Predominant Mechanism for Uptake of the Colonic Spirochetosis Bacterium Serpulina Pilosicoli by Human Monocytes. Advances in Experimental Medicine and Biology, 1999, 473, 207-214.	1.6	6
89	Random inducible controlled expression (RICE) for identification of mycobacterial virulence genes. Tuberculosis, 2011, 91, S66-S68.	1.9	5
90	Antibacterial Derivatives of Ciprofloxacin to Inhibit Growth of Necrotizing Fasciitis Associated Penicillin Resistant Escherichia coli. Journal of Pharmaceutics, 2013, 2013, 1-7.	4.7	5

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91	Vaccines against Intracellular Pathogens. Sub-Cellular Biochemistry, 2000, 33, 559-599.	2.4	5
92	Light scattering by pulmonary alveoli and airway surface liquid using a concentric sphere model. Optics Letters, 2018, 43, 5001.	3.3	5
93	COVID-19 and Beyond: Exploring Public Health Benefits from Non-Specific Effects of BCG Vaccination. Microorganisms, 2021, 9, 2120.	3.6	5
94	Recent Developments in Drug Delivery for Treatment of Tuberculosis by Targeting Macrophages. Advanced Therapeutics, 2022, 5, .	3.2	5
95	Optical model of the murine lung to optimize pulmonary illumination. Journal of Biomedical Optics, 2018, 23, 1.	2.6	4
96	Molecular properties and antibacterial activity of the methyl and ethyl ester derivatives of ampicillin. Physiological Chemistry and Physics and Medical NMR, 2004, 36, 85-94.	0.2	4
97	Fluid-shear method to evaluate bacterial adhesion to glass surfaces. Journal of Applied Physics, 2012, 112, 014703.	2.5	3
98	Guinea pig infection with the intracellular pathogen Rhodococcus equi. Veterinary Microbiology, 2018, 215, 18-22.	1.9	3
99	Fluorescence Imaging of Mycobacterial Infection in Live Mice Using Fluorescent Protein-Expressing Strains. Methods in Molecular Biology, 2018, 1790, 75-85.	0.9	3
100	Legionnairesâ€™ Disease Mortality in Guinea Pigs Involves the p45 Mobile Genomic Element. Journal of Infectious Diseases, 2019, 220, 1700-1710.	4.0	3
101	Legionella pneumophila p45 element influences host cell entry and sensitivity to sodium. PLoS ONE, 2019, 14, e0218941.	2.5	3
102	Polyelectrolyte Complex that Minimizes Bacterial Adhesion to Polyester. Macromolecular Materials and Engineering, 2021, 306, 2100579.	3.6	3
103	Identification of a secreted superoxide dismutase in Mycobacterium avium ssp. paratuberculosis. FEMS Microbiology Letters, 2001, 202, 233-238.	1.8	3
104	Fluorescence modeling of in vivo optical detection of Mycobacterium tuberculosis. Biomedical Optics Express, 2019, 10, 5445.	2.9	3
105	Determination of Molecular Properties Effectuating the Growth Inhibition of Mycobacterium Tuberculosis by Various Small Molecule Hydrazides. Letters in Drug Design and Discovery, 2008, 5, 162-168.	0.7	3
106	Entry into host cells by Legionella. Frontiers in Bioscience - Landmark, 2002, 7, d1-11.	3.0	2
107	Gene Expression Signatures Identify Biologically and Clinically Distinct Tuberculosis Endotypes. SSRN Electronic Journal, 0, , .	0.4	2
108	Isolation and characterization of novel phage (Podoviridae É ParuNE1) and its efficacy against multi-drug-resistant Pseudomonas aeruginosa planktonic cells and biofilm. Beni-Suef University Journal of Basic and Applied Sciences, 2021, 10, .	2.0	2

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109	Development of a transposon mutagenesis system for Mycobacterium avium subsp. paratuberculosis. FEMS Microbiology Letters, 1999, 175, 21-26.	1.8	2
110	Efficacy of Using Sutures Treated with Povidone-Iodine or Chlorhexidine for Preventing Growth of Staphylococcus and Escherichia coli. Plastic and Reconstructive Surgery, 2009, 124, 191e-193e.	1.4	1
111	Evaluation of in silico designed inhibitors targeting MelF (Rv1936) against Mycobacterium marinum within macrophages. Scientific Reports, 2019, 9, 10084.	3.3	1
112	The Silent Plague: Regulation of Latent Tuberculosis Infections. , 2019, , 23-42.		1
113	In-vivo Fluorescence Imaging of Bacterial Infection in the Mouse Lung. , 2015, , .		1
114	Novel Tuberculostatic Agents Suitable for Treatment of Mycobacterium tuberculosis Infections of the Central Nervous System. British Journal of Pharmaceutical Research, 2014, 4, 1535-1551.	0.4	1
115	In vitro results of flexible light-emitting antimicrobial bandage designed for prevention of surgical site infections. , 2018, , .		1
116	Genetic determination of the meso-diaminopimelate biosynthetic pathway of mycobacteria. Journal of Bacteriology, 1997, 179, 2792-2792.	2.2	0
117	Optimal design of a bifurcated refractive coupler for the HEDlight program. , 2004, 5529, 176.		0
118	Virulent mycobacteria and the many aspects of macrophage uptake. Future Microbiology, 2007, 2, 461-464.	2.0	0
119	Design and In Vitro Evaluation of Five Inhibitors of Mycobacterium Tuberculosis. Letters in Drug Design and Discovery, 2007, 4, 137-143.	0.7	0
120	Detection of bacterial infection with a fiber optic microendoscope. Proceedings of SPIE, 2011, , .	0.8	0
121	Multi-scale fluorescence imaging of bacterial infections in animal models. , 2013, , .		0
122	Whole-animal imaging of bacterial infection using endoscopic excitation of Î²-lactamase (BlaC)-specific fluorogenic probe. Proceedings of SPIE, 2016, , .	0.8	0
123	Imaging Mycobacterium tuberculosis in Mice with Reporter Enzyme Fluorescence. Journal of Visualized Experiments, 2018, , .	0.3	0
124	Detection of bacterial infection with a fiber optic microendoscope. , 2011, , .		0
125	Hsp90 Plays a Role in Host-Bacterial Interactions: Insight Gained from Acanthamoeba castellanii. Heat Shock Proteins, 2013, , 237-248.	0.2	0
126	A Structurally Relevant Lung Phantom for Optimization of Multiscale Imaging of Bacterial Infection. , 2015, , .		0

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127	A fluorescence model of the murine lung for optical detection of pathogenic bacteria. , 2017, , .		0
128	Optical In Vivo Imaging in Tuberculosis Research. , 2019, , 155-200.		0
129	Four hydrazide compounds that inhibit the growth of mycobacterium tuberculosis. Physiological Chemistry and Physics and Medical NMR, 2008, 40, 55-65.	0.2	0