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	Phage-Encoded Cationic Antimicrobial Peptide Required for Lysis. Journal of Bacteriology, 2022, 204, JB0021421.	2.2	8
2	Gene expression signatures identify biologically and clinically distinct tuberculosis endotypes. European Respiratory Journal, 2022, 60, 2102263.	6.7	17
3	Recent Developments in Drug Delivery for Treatment of Tuberculosis by Targeting Macrophages. Advanced Therapeutics, 2022, 5, .	3.2	5
4	Increased DNA methylation, cellular senescence and premature epigenetic aging in guinea pigs and humans with tuberculosis. Aging, 2022, 14, 2174-2193.	3.1	15
5	Efficacy of Cathelicidin-Mimetic Antimicrobial Peptoids against Staphylococcus aureus. Microbiology Spectrum, 2022, 10, e0053422.	3.0	8
6	Tuberculosis endotypes to guide stratified host-directed therapy. Med, 2021, 2, 217-232.	4.4	24
7	Zinc limitation triggers anticipatory adaptations in Mycobacterium tuberculosis. PLoS Pathogens, 2021, 17, e1009570.	4.7	20
8	100 years of Bacillus Calmetteâ€“GuÃ©rin immunotherapy: from cattle to COVID-19. Nature Reviews Urology, 2021, 18, 611-622.	3.8	80
9	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
10	Polyelectrolyte Complex that Minimizes Bacterial Adhesion to Polyester. Macromolecular Materials and Engineering, 2021, 306, 2100579.	3.6	3
11	COVID-19 and Beyond: Exploring Public Health Benefits from Non-Specific Effects of BCG Vaccination. Microorganisms, 2021, 9, 2120.	3.6	5
12	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
13	Mycobacterium tuberculosis Dissemination Plays a Critical Role in Pathogenesis. Frontiers in Cellular and Infection Microbiology, 2020, 10, 65.	3.9	78
14	Molecular Nanomachines Can Destroy Tissue or Kill Multicellular Eukaryotes. ACS Applied Materials & Interfaces, 2020, 12, 13657-13670.	8.0	16
15	DNA hypermethylation during tuberculosis dampens host immune responsiveness. Journal of Clinical Investigation, 2020, 130, 3113-3123.	8.2	47
16	Evaluation of in silico designed inhibitors targeting MelF (Rv1936) against Mycobacterium marinum within macrophages. Scientific Reports, 2019, 9, 10084.	3.3	1
17	Legionnairesâ€™ Disease Mortality in Guinea Pigs Involves the p45 Mobile Genomic Element. Journal of Infectious Diseases, 2019, 220, 1700-1710.	4.0	3
18	Legionella pneumophila p45 element influences host cell entry and sensitivity to sodium. PLoS ONE, 2019, 14, e0218941.	2.5	3

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19	Dual activity of niclosamide to suppress replication of integrated HIV-1 and Mycobacterium tuberculosis (Beijing). Tuberculosis, 2019, 116, S28-S33.	1.9	27
20	Rapid Tuberculosis Diagnosis Using Reporter Enzyme Fluorescence. Journal of Clinical Microbiology, 2019, 57, .	3.9	10
21	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
22	The Silent Plague: Regulation of Latent Tuberculosis Infections. , 2019, , 23-42.		1
23	Fluorescence modeling of in vivo optical detection of Mycobacterium tuberculosis. Biomedical Optics Express, 2019, 10, 5445.	2.9	3
24	Optical In Vivo Imaging in Tuberculosis Research. , 2019, , 155-200.		0
25	Fabrication and Characterization of Optical Tissue Phantoms Containing Macrostructure. Journal of Visualized Experiments, 2018, , .	0.3	7
26	Guinea pig infection with the intracellular pathogen Rhodococcus equi. Veterinary Microbiology, 2018, 215, 18-22.	1.9	3
27	Imaging Mycobacterium tuberculosis in Mice with Reporter Enzyme Fluorescence. Journal of Visualized Experiments, 2018, , .	0.3	0
28	Fluorescence Imaging of Mycobacterial Infection in Live Mice Using Fluorescent Protein-Expressing Strains. Methods in Molecular Biology, 2018, 1790, 75-85.	0.9	3
29	Hetero-Multivalency of Pseudomonas aeruginosa Lectin LecA Binding to Model Membranes. Scientific Reports, 2018, 8, 8419.	3.3	21
30	Optical model of the murine lung to optimize pulmonary illumination. Journal of Biomedical Optics, 2018, 23, 1.	2.6	4
31	Light scattering by pulmonary alveoli and airway surface liquid using a concentric sphere model. Optics Letters, 2018, 43, 5001.	3.3	5
32	In vitro results of flexible light-emitting antimicrobial bandage designed for prevention of surgical site infections. , 2018, , .		1
33	Real-time Imaging ofMycobacterium tuberculosis, Using a Novel Near-Infrared Fluorescent Substrate. Journal of Infectious Diseases, 2017, 215, jiw298.	4.0	19
34	Polyelectrolyte Multilayer Nanocoating Dramatically Reduces Bacterial Adhesion to Polyester Fabric. ACS Biomaterials Science and Engineering, 2017, 3, 1845-1852.	5.2	25
35	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
36	Mesenchymal stem cells internalize Mycobacterium tuberculosis through scavenger receptors and restrict bacterial growth through autophagy. Scientific Reports, 2017, 7, 15010.	3.3	51

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37	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
38	Rational design of drug-like compounds targeting Mycobacterium marinum MelF protein. PLoS ONE, 2017, 12, e0183060.	2.5	13
39	A fluorescence model of the murine lung for optical detection of pathogenic bacteria. , 2017, , .		0
40	Intravital Fluorescence Excitation in Whole-Animal Optical Imaging. PLoS ONE, 2016, 11, e0149932.	2.5	18
41	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
42	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
43	Pulmonary Tuberculosis in Humanized Mice Infected with HIV-1. Scientific Reports, 2016, 6, 21522.	3.3	62
44	New directions using reporter enzyme fluorescence (REF) as a tuberculosis diagnostic platform. Tuberculosis, 2016, 101, S78-S82.	1.9	9
45	Whole-animal imaging of bacterial infection using endoscopic excitation of Î²-lactamase (BlaC)-specific fluorogenic probe. Proceedings of SPIE, 2016, , .	0.8	0
46	The Caenorhabditis elegans p38 MAPK Gene plays a key role in protection from mycobacteria. MicrobiologyOpen, 2016, 5, 436-452.	3.0	20
47	Bacteria repelling on highly-ordered alumina-nanopore structures. Journal of Applied Physics, 2015, 117, 155302.	2.5	11
48	In-vivo Fluorescence Imaging of Bacterial Infection in the Mouse Lung. , 2015, , .		1
49	A Structurally Relevant Lung Phantom for Optimization of Multiscale Imaging of Bacterial Infection. , 2015, , .		0
50	Real-Time Bioluminescence Imaging of Mixed Mycobacterial Infections. PLoS ONE, 2014, 9, e108341.	2.5	19
51	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
52	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
53	In vitro model of mycobacteria and HIV-1 co-infection for drug discovery. Tuberculosis, 2013, 93, S66-S70.	1.9	6
54	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

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55	Molecular analysis of the Mycobacterium tuberculosis lux-like mel2 operon. Tuberculosis, 2013, 93, S83-S87.	1.9	10
56	Multi-scale fluorescence imaging of bacterial infections in animal models. , 2013, , .		0
57	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
58	A Humanized Mouse Model of Tuberculosis. PLoS ONE, 2013, 8, e63331.	2.5	94
59	Hsp90 Plays a Role in Host-Bacterial Interactions: Insight Gained from Acanthamoeba castellanii. Heat Shock Proteins, 2013, , 237-248.	0.2	0
60	Fluid-shear method to evaluate bacterial adhesion to glass surfaces. Journal of Applied Physics, 2012, 112, 014703.	2.5	3
61	Antibacterial activities of gold and silver nanoparticles against Escherichia coli and bacillus Calmette-GuÃ©rin. Journal of Nanobiotechnology, 2012, 10, 19.	9.1	401
62	Rapid point-of-care detection of the tuberculosis pathogen using a BlaC-specific fluorogenic probe. Nature Chemistry, 2012, 4, 802-809.	13.6	154
63	Small Molecule Hydrazide Agents to Inhibit Growth and Proliferation of Mycobacterium Tuberculosis. Medicinal Chemistry, 2012, 8, 273-280.	1.5	10
64	Wholeâ€Body Imaging of Infection Using Fluorescence. Current Protocols in Microbiology, 2011, 21, Unit 2C.3.	6.5	14
65	Wholeâ€Body Imaging of Infection Using Bioluminescence. Current Protocols in Microbiology, 2011, 21, Unit 2C.4.	6.5	14
66	Fiber optic microendoscopy for preclinical study of bacterial infection dynamics. Biomedical Optics Express, 2011, 2, 1121.	2.9	18
67	Using Luciferase to Image Bacterial Infections in Mice. Journal of Visualized Experiments, 2011, , .	0.3	13
68	Detection of bacterial infection with a fiber optic microendoscope. Proceedings of SPIE, 2011, , .	0.8	0
69	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
70	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
71	Random inducible controlled expression (RICE) for identification of mycobacterial virulence genes. Tuberculosis, 2011, 91, S66-S68.	1.9	5
72	Efficacy of Antimicrobial Peptoids against Mycobacterium tuberculosis. Antimicrobial Agents and Chemotherapy, 2011, 55, 3058-3062.	3.2	93

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73	Detection of bacterial infection with a fiber optic microendoscope. , 2011, , .		0
74	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
75	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
76	Reporter enzyme fluorescence (REF) imaging and quantification of tuberculosis in live animals. Virulence, 2010, 1, 558-562.	4.4	20
77	Mycobacterium tuberculosisInterferes with the Response to Infection by Inducing the Host EphA2 Receptor. Journal of Infectious Diseases, 2009, 199, 1797-1806.	4.0	19
78	Protection ofMycobacterium tuberculosisfrom Reactive Oxygen Species Conferred by themel2Locus Impacts Persistence and Dissemination. Infection and Immunity, 2009, 77, 2557-2567.	2.2	57
79	Indole and 7â€hydroxyindole diminish Pseudomonas aeruginosa virulence. Microbial Biotechnology, 2009, 2, 75-90.	4.2	214
80	Application of optical imaging to study of extrapulmonary spread by tuberculosis. Tuberculosis, 2009, 89, S15-S17.	1.9	31
81	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
82	Pseudomonas aeruginosa PAO1 virulence factors and poplar tree response in the rhizosphere. Microbial Biotechnology, 2008, 1, 17-29.	4.2	69
83	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
84	Non-Opsonic Phagocytosis of Legionella pneumophila by Macrophages Is Mediated by Phosphatidylinositol 3-Kinase. PLoS ONE, 2008, 3, e3324.	2.5	35
85	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
86	Four hydrazide compounds that inhibit the growth of mycobacterium tuberculosis. Physiological Chemistry and Physics and Medical NMR, 2008, 40, 55-65.	0.2	0
87	Antibacterial Activity of Dipeptide Constructs of Acetylsalicylic Acid and Nicotinic Acid. Drug Delivery, 2007, 14, 105-109.	5.7	7
88	Virulent mycobacteria and the many aspects of macrophage uptake. Future Microbiology, 2007, 2, 461-464.	2.0	0
89	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
90	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

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91	Design and In Vitro Evaluation of Five Inhibitors of Mycobacterium Tuberculosis. Letters in Drug Design and Discovery, 2007, 4, 137-143.	0.7	0
92	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
93	Identification of Mycobacterium marinum macrophage infection mutants. Microbial Pathogenesis, 2006, 40, 139-151.	2.9	31
94	Identification of Mycobacterium avium Genes That Affect Invasion of the Intestinal Epithelium. Infection and Immunity, 2005, 73, 4214-4221.	2.2	37
95	Identification of Two Mycobacterium marinum Loci That Affect Interactions with Macrophages. Infection and Immunity, 2004, 72, 6902-6913.	2.2	38
96	Evidence that hsp90 Is Involved in the Altered Interactions of Acanthamoeba castellanii Variants with Bacteria. Eukaryotic Cell, 2004, 3, 567-578.	3.4	41
97	Infection of murine macrophage cell lines by Legionella pneumophila. FEMS Microbiology Letters, 2004, 230, 147-152.	1.8	16
98	Optimal design of a bifurcated refractive coupler for the HEDlight program. , 2004, 5529, 176.		0
99	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
100	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
101	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
102	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
103	Genetic and Phenotypic Differences between Legionella pneumophila Strains. Journal of Clinical Microbiology, 2002, 40, 1352-1362.	3.9	75
104	Cell Sorting of Formalin-Treated Pathogenic Mycobacterium paratuberculosis Expressing GFP. BioTechniques, 2002, 32, 522-527.	1.8	12
105	Entry into host cells by Legionella. Frontiers in Bioscience - Landmark, 2002, 7, d1-11.	3.0	2
106	Role of the Legionella pneumophila rtxA gene in amoebae. Microbiology (United Kingdom), 2002, 148, 1667-1677.	1.8	42
107	Entry into host cells by Legionella. Frontiers in Bioscience - Landmark, 2002, 7, d1.	3.0	8
108	Entry mechanisms of mycobacteria. Frontiers in Bioscience - Landmark, 2001, 6, d737.	3.0	30

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109	Identification of a secreted superoxide dismutase inMycobacterium aviumssp.paratuberculosis. FEMS Microbiology Letters, 2001, 202, 233-238.	1.8	34
110	Fish Monocytes as a Model for Mycobacterial Host-Pathogen Interactions. Infection and Immunity, 2001, 69, 7310-7317.	2.2	48
111	Legionella pneumophila Entry GenertxA Is Involved in Virulence. Infection and Immunity, 2001, 69, 508-517.	2.2	104
112	Identification of a secreted superoxide dismutase in Mycobacterium avium ssp. paratuberculosis. FEMS Microbiology Letters, 2001, 202, 233-238.	1.8	3
113	Vaccines against Intracellular Pathogens. Sub-Cellular Biochemistry, 2000, 33, 559-599.	2.4	5
114	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
115	Development of a transposon mutagenesis system forMycobacterium aviumsubsp.paratuberculosis. FEMS Microbiology Letters, 1999, 175, 21-26.	1.8	43
116	Exploring a novel perspective on pathogenic relationships. Trends in Microbiology, 1999, 7, 96-98.	7.7	26
117	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
118	Development of a transposon mutagenesis system for Mycobacterium avium subsp. paratuberculosis. FEMS Microbiology Letters, 1999, 175, 21-26.	1.8	2
119	Intracellular Growth inAcanthamoeba castellaniiAffects Monocyte Entry Mechanisms and Enhances Virulence ofLegionella pneumophila. Infection and Immunity, 1999, 67, 4427-4434.	2.2	204
120	Genetic determination of the meso-diaminopimelate biosynthetic pathway of mycobacteria. Journal of Bacteriology, 1997, 179, 2792-2792.	2.2	0
121	Bacterial Vaccine Vectors and Bacillus Calmette-Guerin. Clinical Infectious Diseases, 1995, 20, 1001-1009.	5.8	42
122	Genetic determination of the meso-diaminopimelate biosynthetic pathway of mycobacteria. Journal of Bacteriology, 1994, 176, 4424-4429.	2.2	28
123	Isolation and characterization of the aspartokinase and aspartate semialdehyde dehydrogenase operon from mycobacteria. Molecular Microbiology, 1994, 11, 629-639.	2.5	60
124	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
125	Growth of Legionella pneumophila in Acanthamoeba castellanii enhances invasion. Infection and Immunity, 1994, 62, 3254-3261.	2.2	338
126	[25] Genetic systems for mycobacteria. Methods in Enzymology, 1991, 204, 537-555.	1.0	426

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127	A novel transposon trap for mycobacteria: isolation and characterization of IS1096. Journal of Bacteriology, 1991, 173, 7772-7780.	2.2	109
128	Recombinant BCG as a candidate oral vaccine vector. Research in Microbiology, 1990, 141, 931-939.	2.1	41
129	Gene Expression Signatures Identify Biologically and Clinically Distinct Tuberculosis Endotypes. SSRN Electronic Journal, 0, , .	0.4	2