

Carolyn L Cannon

List of Publications by Year in descending order

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52
papers

6,738
citations

117625
34
h-index

189892
50
g-index

56
all docs

56
docs citations

56
times ranked

8491
citing authors

#	ARTICLE	IF	CITATIONS
1	Lung Infections Associated with Cystic Fibrosis. <i>Clinical Microbiology Reviews</i> , 2002, 15, 194-222.	13.6	1,412
2	Establishment of <i>Pseudomonas aeruginosa</i> infection: lessons from a versatile opportunist ¹ *Address for correspondence: Channing Laboratory, 181 Longwood Avenue, Boston, MA 02115, USA. <i>Microbes and Infection</i> , 2000, 2, 1051-1060.	1.9	1,191
3	The Medicinal Applications of Imidazolium Carbene ⁺ Metal Complexes. <i>Chemical Reviews</i> , 2009, 109, 3859-3884.	47.7	693
4	N-Heterocyclic carbene ⁺ silver complexes: A new class of antibiotics. <i>Coordination Chemistry Reviews</i> , 2007, 251, 884-895.	18.8	439
5	Synthesis from Caffeine of a Mixed N-Heterocyclic Carbene ⁺ Silver Acetate Complex Active against Resistant Respiratory Pathogens. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 6811-6818.	6.4	214
6	Airway Inflammation in Cystic Fibrosis. <i>Chest</i> , 2008, 133, 489-495.	0.8	208
7	Synthesis, Stability, and Antimicrobial Studies of Electronically Tuned Silver Acetate <i>N</i> -Heterocyclic Carbenes. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1577-1583.	6.4	194
8	The antimicrobial efficacy of sustained release silver ⁺ carbene complex-loaded L-tyrosine polyphosphate nanoparticles: Characterization, in vitro and in vivo studies. <i>Biomaterials</i> , 2009, 30, 3771-3779.	11.4	156
9	<i>Mycobacterium abscessus</i> Infection in Cystic Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2000, 161, 641-645.	5.6	154
10	Clinical Practice Guidelines From the Cystic Fibrosis Foundation for Preschoolers With Cystic Fibrosis. <i>Pediatrics</i> , 2016, 137, .	2.1	140
11	CFTR is a pattern recognition molecule that extracts <i>Pseudomonas aeruginosa</i> LPS from the outer membrane into epithelial cells and activates NF- κ B translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6907-6912.	7.1	135
12	In vitro antimicrobial studies of silver carbene complexes: activity of free and nanoparticle carbene formulations against clinical isolates of pathogenic bacteria. <i>Journal of Antimicrobial Chemotherapy</i> , 2012, 67, 138-148.	3.0	135
13	<i>Pseudomonas aeruginosa</i> ⁺ Induced Apoptosis Is Defective in Respiratory Epithelial Cells Expressing Mutant Cystic Fibrosis Transmembrane Conductance Regulator. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2003, 29, 188-197.	2.9	114
14	Hypersusceptibility of cystic fibrosis mice to chronic <i>Pseudomonas aeruginosa</i> oropharyngeal colonization and lung infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1949-1954.	7.1	101
15	Inpatient Bronchiolitis Guideline Implementation and Resource Utilization. <i>Pediatrics</i> , 2014, 133, e730-e737.	2.1	87
16	Effects of Diagnosis by Newborn Screening for Cystic Fibrosis on Weight and Length in the First Year of Life. <i>JAMA Pediatrics</i> , 2017, 171, 546.	6.2	86
17	Panton-Valentine Leukocidin-Positive Methicillin-Resistant <i>Staphylococcus aureus</i> Lung Infection in Patients With Cystic Fibrosis. <i>Chest</i> , 2007, 131, 1718-1725.	0.8	81
18	Azithromycin attenuates airway inflammation in a mouse model of viral bronchiolitis. <i>Respiratory Research</i> , 2010, 11, 90.	3.6	80

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19	Neutrophil Depletion Causes a Fatal Defect in Murine Pulmonary Staphylococcus aureus clearance. Journal of Surgical Research, 2008, 150, 278-285.	1.6	79
20	In Vitro and Murine Efficacy and Toxicity Studies of Nebulized SCC1, a Methylated Caffeine-Silver(I) Complex, for Treatment of Pulmonary Infections. Antimicrobial Agents and Chemotherapy, 2009, 53, 3285-3293.	3.2	74
21	A theobromine derived silver N-heterocyclic carbene: synthesis, characterization, and antimicrobial efficacy studies on cystic fibrosis relevant pathogens. Dalton Transactions, 2009, , 7308.	3.3	68
22	Pyoverdine-Dependent Virulence of Pseudomonas aeruginosa Isolates From Cystic Fibrosis Patients. Frontiers in Microbiology, 2019, 10, 2048.	3.5	67
23	Azithromycin Attenuates Airway Inflammation in a Noninfectious Mouse Model of Allergic Asthma. Chest, 2009, 136, 498-506.	0.8	65
24	Degradable polyphosphoester-based silver-loaded nanoparticles as therapeutics for bacterial lung infections. Nanoscale, 2015, 7, 2265-2270.	5.6	62
25	Synthesis and in vitro Efficacy Studies of Silver Carbene Complexes on Biosafety Level 3 Bacteria. European Journal of Inorganic Chemistry, 2009, 2009, 1739-1745.	2.0	61
26	Pulmonary Pathology in Thyroid Transcription Factor-1 Deficiency Syndrome. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 549-554.	5.6	61
27	Predictors of mucoid <i>Pseudomonas</i> colonization in cystic fibrosis patients. Pediatric Pulmonology, 2008, 43, 463-471.	2.0	58
28	Ciprofloxacin overdose: Acute renal failure with prominent apoptotic changes. American Journal of Kidney Diseases, 1998, 31, 710-712.	1.9	51
29	Shell crosslinked nanoparticles carrying silver antimicrobials as therapeutics. Chemical Communications, 2010, 46, 121-123.	4.1	50
30	Aerosolized Antimicrobial Agents Based on Degradable Dextran Nanoparticles Loaded with Silver Carbene Complexes. Molecular Pharmaceutics, 2012, 9, 3012-3022.	4.6	49
31	Synthesis, Characterization, and In Vivo Efficacy of Shell Cross-Linked Nanoparticle Formulations Carrying Silver Antimicrobials as Aerosolized Therapeutics. ACS Nano, 2013, 7, 4977-4987.	14.6	44
32	Recombinant pICln Forms Highly Cation-selective Channels when Reconstituted into Artificial and Biological Membranes. Journal of General Physiology, 1998, 112, 727-736.	1.9	42
33	Synthesis, characterization, and antimicrobial activity of silver carbene complexes derived from 4,5,6,7-tetrachlorobenzimidazole against antibiotic resistant bacteria. Dalton Transactions, 2012, 41, 6500.	3.3	41
34	Antimicrobial Activity of Ibuprofen against Cystic Fibrosis-Associated Gram-Negative Pathogens. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	37
35	ATP7B detoxifies silver in ciliated airway epithelial cells. Toxicology and Applied Pharmacology, 2010, 243, 315-322.	2.8	22
36	Minocycline and Silver Dual-Loaded Polyphosphoester-Based Nanoparticles for Treatment of Resistant <i>Pseudomonas aeruginosa</i> . Molecular Pharmaceutics, 2019, 16, 1606-1619.	4.6	22

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37	Investigating the pharmacokinetics and biological distribution of silver-loaded polyphosphoester-based nanoparticles using ¹¹¹ Ag as a radiotracer. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2015, 58, 234-241.	1.0	21
38	Entry of Burkholderia organisms into respiratory epithelium: CFTR, microfilament and microtubule dependence. <i>Journal of Cystic Fibrosis</i> , 2010, 9, 36-43.	0.7	19
39	Nanoparticle Deposition onto Biofilms. <i>Annals of Biomedical Engineering</i> , 2013, 41, 53-67.	2.5	19
40	The use of ¹¹¹ Ag as a tool for studying biological distribution of silver-based antimicrobials. <i>MedChemComm</i> , 2013, 4, 1015.	3.4	18
41	Cystic fibrosis mutations for p.F508del compound heterozygotes predict sweat chloride levels and pancreatic sufficiency. <i>Clinical Genetics</i> , 2012, 82, 546-551.	2.0	16
42	Transmission of Panton-Valentine Leukocidin-Positive Staphylococcus Aureus between Patients with Cystic Fibrosis. <i>Journal of Pediatrics</i> , 2007, 151, 90-92.	1.8	14
43	Identification of molecular signatures of cystic fibrosis disease status with plasma-based functional genomics. <i>Physiological Genomics</i> , 2019, 51, 27-41.	2.3	14
44	IL-12 p80-dependent macrophage recruitment primes the host for increased survival following a lethal respiratory viral infection. <i>Immunology</i> , 2009, 126, 500-513.	4.4	13
45	A novel in vitro metric predicts in vivo efficacy of inhaled silver-based antimicrobials in a murine Pseudomonas aeruginosa pneumonia model. <i>Scientific Reports</i> , 2018, 8, 6376.	3.3	13
46	Modeling the response of a biofilm to silver-based antimicrobial. <i>Mathematical Biosciences</i> , 2013, 244, 29-39.	1.9	9
47	N-Acetyl cysteine abrogates silver-induced reactive oxygen species in human cells without altering silver-based antimicrobial activity. <i>Toxicology Letters</i> , 2020, 332, 118-129.	0.8	5
48	CHAPTER 15. Biologically Active N-Heterocyclic Carbene-Metal Complexes. <i>RSC Catalysis Series</i> , 2016, , 567-595.	0.1	2
49	Azithromycin Attenuated Airway Inflammation in a Non-Infectious Mouse Model of Allergic Asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2009, 123, S263-S263.	2.9	1
50	Host Protease Activity on Bacterial Pathogens Promotes Complement and Antibiotic-Directed Killing. <i>Pathogens</i> , 2021, 10, 1506.	2.8	1
51	A finite element model for cardiac cryopreservation. <i>Cryobiology</i> , 1980, 17, 601.	0.7	0
52	Risk Factors And Complications In Pediatric Patients With Novel H1N1 Influenza Admitted To PICU: The Dallas Experience. , 2010, , .		0