

Charles Langelier

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

3,137
citations

304743

22
h-index

206112

48
g-index

67
all docs

67
docs citations

67
times ranked

5136
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical Metagenomic Sequencing for Diagnosis of Meningitis and Encephalitis. <i>New England Journal of Medicine</i> , 2019, 380, 2327-2340.	27.0	644
2	Integrating host response and unbiased microbe detection for lower respiratory tract infection diagnosis in critically ill adults. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12353-E12362.	7.1	249
3	Chronic Meningitis Investigated via Metagenomic Next-Generation Sequencing. <i>JAMA Neurology</i> , 2018, 75, 947.	9.0	214
4	Global absence and targeting of protective immune states in severe COVID-19. <i>Nature</i> , 2021, 591, 124-130.	27.8	206
5	Metagenomic Sequencing Detects Respiratory Pathogens in Hematopoietic Cellular Transplant Patients. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 524-528.	5.6	187
6	FLASH: a next-generation CRISPR diagnostic for multiplexed detection of antimicrobial resistance sequences. <i>Nucleic Acids Research</i> , 2019, 47, e83-e83.	14.5	168
7	Type I interferon autoantibodies are associated with systemic immune alterations in patients with COVID-19. <i>Science Translational Medicine</i> , 2021, 13, eabh2624.	12.4	155
8	The gut microbiome's role in the development, maintenance, and outcomes of sepsis. <i>Critical Care</i> , 2020, 24, 278.	5.8	152
9	Upper airway gene expression reveals suppressed immune responses to SARS-CoV-2 compared with other respiratory viruses. <i>Nature Communications</i> , 2020, 11, 5854.	12.8	118
10	IFN-stimulated Gene Expression, Type 2 Inflammation, and Endoplasmic Reticulum Stress in Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 313-324.	5.6	87
11	Unbiased Metagenomic Sequencing for Pediatric Meningitis in Bangladesh Reveals Neuroinvasive Chikungunya Virus Outbreak and Other Unrealized Pathogens. <i>MBio</i> , 2019, 10, .	4.1	79
12	Metagenomic next-generation sequencing of samples from pediatric febrile illness in Tororo, Uganda. <i>PLoS ONE</i> , 2019, 14, e0218318.	2.5	66
13	Clinical outcomes and serologic response in solid organ transplant recipients with COVID-19: A case series from the United States. <i>American Journal of Transplantation</i> , 2020, 20, 3225-3233.	4.7	60
14	Nasopharyngeal SARS-CoV-2 viral loads in young children do not differ significantly from those in older children and adults. <i>Scientific Reports</i> , 2021, 11, 3044.	3.3	54
15	Tracheal aspirate RNA sequencing identifies distinct immunological features of COVID-19 ARDS. <i>Nature Communications</i> , 2021, 12, 5152.	12.8	47
16	Sepsis Attributed to Bacterial Contamination of Platelets Associated with a Potential Common Source in Multiple States, 2018. <i>Morbidity and Mortality Weekly Report</i> , 2019, 68, 519-523.	15.1	46
17	Increased rates of secondary bacterial infections, including <i>Enterococcus</i> bacteremia, in patients hospitalized with coronavirus disease 2019 (COVID-19). <i>Infection Control and Hospital Epidemiology</i> , 2022, 43, 1416-1423.	1.8	40
18	Integrating central nervous system metagenomics and host response for diagnosis of tuberculosis meningitis and its mimics. <i>Nature Communications</i> , 2022, 13, 1675.	12.8	38

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19	Two Rapidly Growing Mycobacterial Species Isolated from a Brain Abscess: First Whole-Genome Sequences of Mycobacterium immunogenum and Mycobacterium llutzerense. <i>Journal of Clinical Microbiology</i> , 2015, 53, 2374-2377.	3.9	36
20	Metagenomic comparison of tracheal aspirate and mini-bronchial alveolar lavage for assessment of respiratory microbiota. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 316, L578-L584.	2.9	36
21	Vaccine breakthrough hypoxemic COVID-19 pneumonia in patients with auto-Abs neutralizing type I IFNs. <i>Science Immunology</i> , 2023, 8, .	11.9	35
22	Malaria and the Microbiome: A Systematic Review. <i>Clinical Infectious Diseases</i> , 2018, 67, 1831-1839.	5.8	33
23	COVID-19-associated Lung Microvascular Endotheliopathy: A From the Bench Perspective. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 206, 961-972.	5.6	30
24	Assessing biosynthetic potential of agricultural groundwater through metagenomic sequencing: A diverse anammox community dominates nitrate-rich groundwater. <i>PLoS ONE</i> , 2017, 12, e0174930.	2.5	26
25	Metagenomic prediction of antimicrobial resistance in critically ill patients with lower respiratory tract infections. <i>Genome Medicine</i> , 2022, 14, .	8.2	25
26	Lower respiratory tract infections in children requiring mechanical ventilation: a multicentre prospective surveillance study incorporating airway metagenomics. <i>Lancet Microbe</i> , The, 2022, 3, e284-e293.	7.3	24
27	Type-1 immunity and endogenous immune regulators predominate in the airway transcriptome during chronic lung allograft dysfunction. <i>American Journal of Transplantation</i> , 2021, 21, 2145-2160.	4.7	23
28	Investigating Transfusion-related Sepsis Using Culture-Independent Metagenomic Sequencing. <i>Clinical Infectious Diseases</i> , 2020, 71, 1179-1185.	5.8	21
29	Sepsis from an apheresis platelet contaminated with <i>Acinetobacter calcoaceticus/baumannii</i> complex bacteria and <i>Staphylococcus saprophyticus</i> after pathogen reduction. <i>Transfusion</i> , 2020, 60, 1960-1969.	1.6	20
30	Genomic and serologic characterization of enterovirus A71 brainstem encephalitis. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2020, 7, .	6.0	19
31	Rapid deployment of SARS-CoV-2 testing: The CLIAHUB. <i>PLoS Pathogens</i> , 2020, 16, e1008966.	4.7	18
32	Detection of <i>Cryptococcus</i> DNA by Metagenomic Next-generation Sequencing in Symptomatic Cryptococcal Antigenemia. <i>Clinical Infectious Diseases</i> , 2019, 68, 1978-1979.	5.8	15
33	Transcriptomic profiling reveals gene expression kinetics in patients with hypoxia and high altitude pulmonary edema. <i>Gene</i> , 2018, 651, 200-205.	2.2	11
34	Antimicrobial Resistance: A Call to Action!. <i>Clinical Infectious Diseases</i> , 2017, 64, 106-107.	5.8	10
35	Mass cytometry reveals a conserved immune trajectory of recovery in hospitalized COVID-19 patients. <i>Immunity</i> , 2022, .	14.3	9
36	Genomic Profiling of Evolving Daptomycin Resistance in a Patient with Recurrent <i>Staphylococcus argenteus</i> Sepsis. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	8

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37	Pneumonia surveillance with culture-independent metatranscriptomics in HIV-positive adults in Uganda: a cross-sectional study. <i>Lancet Microbe</i> , The, 2022, 3, e357-e365.	7.3	7
38	Prolonged silent carriage, genomic virulence potential and transmission between staff and patients characterize a neonatal intensive care unit (NICU) outbreak of methicillin-resistant <i>Staphylococcus aureus</i> (MRSA). <i>Infection Control and Hospital Epidemiology</i> , 2023, 44, 40-46.	1.8	7
39	Upper airway gene expression shows a more robust adaptive immune response to SARS-CoV-2 in children. <i>Nature Communications</i> , 2022, 13, .	12.8	7
40	Cerebrospinal Fluid Pterins, Pterin-Dependent Neurotransmitters, and Mortality in Pediatric Cerebral Malaria. <i>Journal of Infectious Diseases</i> , 2021, 224, 1432-1441.	4.0	6
41	Central Nervous System Virus Infection in African Children with Cerebral Malaria. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020, 103, 200-205.	1.4	6
42	Draft Genome Sequence of an Extensively Drug-Resistant <i>Salmonella enterica</i> Serovar Typhi Strain from a Returned Traveler from Pakistan. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	4
43	COVID-19 in vaccinated versus unvaccinated hematologic malignancy patients. <i>Transplant Infectious Disease</i> , 2022, 24, .	1.7	4
44	Antibiotic-Selected Gene Amplification Heightens Metal Resistance. <i>MBio</i> , 2021, 12, .	4.1	3
45	An Expression of Clinical Significance: Exploring the Human Genome to Understand the Variable Response to Rhinovirus. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 193, 710-712.	5.6	2
46	Complete Genome Sequence of a Divergent Human Rhinovirus C Isolate from an Infant with Severe Community-Acquired Pneumonia in Colorado, USA. <i>Genome Announcements</i> , 2017, 5, .	0.8	2
47	Intestinal Infection Is Associated With Impaired Lung Innate Immunity to Secondary Respiratory Infection. <i>Open Forum Infectious Diseases</i> , 2021, 8, ofab237.	0.9	2
48	Host-Microbe Metagenomics: a Lens To Refocus Our Perspective on Infectious and Inflammatory Diseases. <i>MSystems</i> , 2021, 6, e0040421.	3.8	0