

Kalai Mathee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9369047/publications.pdf>

Version: 2024-02-01

96
papers

7,173
citations

116194
36
h-index

71088
80
g-index

117
all docs

117
docs citations

117
times ranked

11181
citing authors

#	ARTICLE	IF	CITATIONS
1	Rhizospheric and endophytic <i>Pseudomonas aeruginosa</i> in edible vegetable plants share molecular and metabolic traits with clinical isolates. <i>Journal of Applied Microbiology</i> , 2022, 132, 3226-3248.	1.4	11
2	New dynamic microreactor system to mimic biofilm formation and test anti-biofilm activity of nanoparticles. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 2729-2738.	1.7	5
3	Potential Autoimmunity Resulting from Molecular Mimicry between SARS-CoV-2 Spike and Human Proteins. <i>Viruses</i> , 2022, 14, 1415.	1.5	39
4	Prior exposure to microcystin alters host gut resistome and is associated with dysregulated immune homeostasis in translatable mouse models. <i>Scientific Reports</i> , 2022, 12, .	1.6	6
5	Causal effects in microbiomes using interventional calculus. <i>Scientific Reports</i> , 2021, 11, 5724.	1.6	10
6	JMM Profile: Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). <i>Journal of Medical Microbiology</i> , 2021, 70, .	0.7	4
7	Dynamic Bayesian Networks for Integrating Multi-omics Time Series Microbiome Data. <i>MSystems</i> , 2021, 6, .	1.7	19
8	Effect of metronidazole on vaginal microbiota associated with asymptomatic bacterial vaginosis. <i>Access Microbiology</i> , 2021, 3, 000226.	0.2	6
9	Journal of Medical Microbiology: global footprint and appointment of a regional Editorial Board. <i>Journal of Medical Microbiology</i> , 2021, 70, .	0.7	1
10	Multi-Run Concrete Autoencoder to Identify Prognostic lncRNAs for 12 Cancers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11919.	1.8	9
11	Plasmin Cascade Mediates Thrombotic Events in SARS-CoV-2 Infection via Complement and Platelet-Activating Systems. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2020, 1, 220-227.	1.7	12
12	Inferring directional relationships in microbial communities using signed Bayesian networks. <i>BMC Genomics</i> , 2020, 21, 663.	1.2	13
13	So you think you can PLS-DA?. <i>BMC Bioinformatics</i> , 2020, 21, 2.	1.2	184
14	The gut microbiome and neuropsychiatric disorders: implications for attention deficit hyperactivity disorder (ADHD). <i>Journal of Medical Microbiology</i> , 2020, 69, 14-24.	0.7	40
15	Effects of Various Alpha-1 Antitrypsin Supplement Dosages on the Lung Microbiome and Metabolome. <i>Lecture Notes in Computer Science</i> , 2020, , 90-101.	1.0	0
16	DORA Editorial. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 69, 1-2.	0.8	28
17	DORA Editorial. <i>Journal of General Virology</i> , 2019, 100, 1-2.	1.3	1
18	DORA Editorial. <i>Microbiology (United Kingdom)</i> , 2019, 165, 125-126.	0.7	2

#	ARTICLE	IF	CITATIONS
19	DORA Editorial. Journal of Medical Microbiology, 2019, 68, 117-118.	0.7	0
20	So you think you can PLS-DA?. , 2018, , .		6
21	Pseudomonas aeruginosa Regulated Intramembrane Proteolysis: Protease MucP Can Overcome Mutations in the AlgO Periplasmic Protease To Restore Alginate Production in Nonmucoid Revertants. Journal of Bacteriology, 2018, 200, .	1.0	13
22	Cell-wall recycling and synthesis in Escherichia coli and Pseudomonas aeruginosa – their role in the development of resistance. Journal of Medical Microbiology, 2018, 67, 1-21.	0.7	60
23	Outer-membrane protein LptD (PA0595) plays a role in the regulation of alginate synthesis in Pseudomonas aeruginosa. Journal of Medical Microbiology, 2018, 67, 1139-1156.	0.7	5
24	Forensic investigation into the origin of Pseudomonas aeruginosa PA14 – old but not lost. Journal of Medical Microbiology, 2018, 67, 1019-1021.	0.7	39
25	Microbial otitis media: recent advancements in treatment, current challenges and opportunities. Journal of Medical Microbiology, 2018, 67, 1417-1425.	0.7	21
26	DORA Editorial. Microbial Genomics, 2018, 4, .	1.0	1
27	Welcome from Norman Fry and Kalai Mathee, new co-Editors-in-Chief for the Journal of Medical Microbiology. Journal of Medical Microbiology, 2017, 66, 846-846.	0.7	2
28	Identification of Novel Genomic Islands in Liverpool Epidemic Strain of Pseudomonas aeruginosa Using Segmentation and Clustering. Frontiers in Microbiology, 2016, 7, 1210.	1.5	57
29	Otopathogenic Pseudomonas aeruginosa Enters and Survives Inside Macrophages. Frontiers in Microbiology, 2016, 7, 1828.	1.5	22
30	Muropeptides in Pseudomonas aeruginosa and their Role as Elicitors of β -Lactam Antibiotic Resistance. Angewandte Chemie, 2016, 128, 6996-7000.	1.6	3
31	Muropeptides in <i>Pseudomonas aeruginosa</i> and their Role as Elicitors of β -Lactam Antibiotic Resistance. Angewandte Chemie - International Edition, 2016, 55, 6882-6886.	7.2	43
32	Metagenomics, Metatranscriptomics, and Metabolomics Approaches for Microbiome Analysis. Evolutionary Bioinformatics, 2016, 12s1, EBO.S36436.	0.6	227
33	Characterization of a Carbapenem-Hydrolyzing Enzyme, PoxB, in Pseudomonas aeruginosa PAO1. Antimicrobial Agents and Chemotherapy, 2016, 60, 936-945.	1.4	22
34	Microbial "social networks". BMC Genomics, 2015, 16, S6.	1.2	52
35	Pseudomonas aeruginosa MifS-MifR Two-Component System Is Specific for \pm -Ketoglutarate Utilization. PLoS ONE, 2015, 10, e0129629.	1.1	25
36	Current concepts in the pathogenesis and treatment of chronic suppurative otitis media. Journal of Medical Microbiology, 2015, 64, 1103-1116.	0.7	151

#	ARTICLE	IF	CITATIONS
37	70th Anniversary Collection for the Microbiology Society: Journal of Medical Microbiology. Journal of Medical Microbiology, 2015, 64, 1457-1461.	0.7	0
38	Deep sequencing analyses expands the <i>Pseudomonas aeruginosa</i> AmpR regulon to include small RNA-mediated regulation of iron acquisition, heat shock and oxidative stress response. Nucleic Acids Research, 2014, 42, 979-998.	6.5	62
39	<i>Pseudomonas aeruginosa</i> AmpR: an acute-chronic switch regulator. Pathogens and Disease, 2014, 73, n/a-n/a.	0.8	55
40	Long-Term Organic Nutrient Management Fosters the Eubacterial Community Diversity in the Indian Semi-arid Alfisol as Revealed by Length Heterogeneity-PCR. Communications in Soil Science and Plant Analysis, 2014, 45, 189-203.	0.6	10
41	LTQ-XL mass spectrometry proteome analysis expands the <i>Pseudomonas aeruginosa</i> AmpR regulon to include cyclic di-GMP phosphodiesterases and phosphoproteins, and identifies novel open reading frames. Journal of Proteomics, 2014, 96, 328-342.	1.2	14
42	Role of <i>Pseudomonas aeruginosa</i> AmpR on β -lactam and non- β -lactam transient cross-resistance upon pre-exposure to subinhibitory concentrations of antibiotics. Journal of Medical Microbiology, 2014, 63, 544-555.	0.7	33
43	Role of innate immunity in the pathogenesis of otitis media. International Journal of Infectious Diseases, 2014, 29, 259-267.	1.5	44
44	Structural and Functional Characterization of <i>Pseudomonas aeruginosa</i> Global Regulator AmpR. Journal of Bacteriology, 2014, 196, 3890-3902.	1.0	44
45	Better primer design for metagenomics applications by increasing taxonomic distinguishability. BMC Proceedings, 2013, 7, S4.	1.8	19
46	Designing Primers with Higher Taxonomic Distinguishability. , 2013, , .		0
47	A Metagenomic Approach to the Airways Microbiome of Chronic Obstructive Pulmonary Disease (COPD). , 2013, , .		0
48	A dynamic and intricate regulatory network determines <i>Pseudomonas aeruginosa</i> virulence. Nucleic Acids Research, 2013, 41, 1-20.	6.5	1,426
49	A complex multilevel attack on <i>Pseudomonas aeruginosa</i> algT/U expression and AlgT/U activity results in the loss of alginate production. Gene, 2012, 498, 242-253.	1.0	35
50	Gene Function Prediction and Functional Network: The Role of Gene Ontology. Intelligent Systems Reference Library, 2012, , 123-162.	1.0	3
51	The Regulatory Repertoire of <i>Pseudomonas aeruginosa</i> AmpC β -Lactamase Regulator AmpR Includes Virulence Genes. PLoS ONE, 2012, 7, e34067.	1.1	108
52	Co-regulation of β -lactam resistance, alginate production and quorum sensing in <i>Pseudomonas aeruginosa</i> . Journal of Medical Microbiology, 2011, 60, 147-156.	0.7	42
53	Substituted lactam and cyclic azahemiacetals modulate <i>Pseudomonas aeruginosa</i> quorum sensing. Bioorganic and Medicinal Chemistry, 2011, 19, 5500-5506.	1.4	18
54	Characterization of N-acylhomoserine lactone-degrading bacteria associated with the Zingiber officinale (ginger) rhizosphere: Co-existence of quorum quenching and quorum sensing in Acinetobacter and Burkholderia. BMC Microbiology, 2011, 11, 51.	1.3	189

#	ARTICLE	IF	CITATIONS
55	Combination of 16S rRNA variable regions provides a detailed analysis of bacterial community dynamics in the lungs of cystic fibrosis patients. Human Genomics, 2010, 4, 147.	1.4	10
56	Panax ginseng has anti-infective activity against opportunistic pathogen Pseudomonas aeruginosa by inhibiting quorum sensing, a bacterial communication process critical for establishing infection. Phytomedicine, 2010, 17, 1040-1046.	2.3	61
57	Pseudomonas aeruginosa β -lactamase induction requires two permeases, AmpG and AmpP. BMC Microbiology, 2010, 10, 328.	1.3	41
58	Beta-lactam antibiotics: from antibiosis to resistance and bacteriology. Apmis, 2010, 118, 1-36.	0.9	293
59	Neurotrophic and neuroimmune responses to early-life Pseudomonas aeruginosa infection in rat lungs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 299, L334-L344.	1.3	7
60	A α -positive Klebsiella pneumoniae causes liver and brain abscess in a Saint Kitt's man. International Journal of Medical Sciences, 2009, 6, 301-304.	1.1	22
61	Impact of Higher Alginate Expression on Deposition of Pseudomonas aeruginosa in Radial Stagnation Point Flow and Reverse Osmosis Systems. Environmental Science & Technology, 2009, 43, 7376-7383.	4.6	40
62	Approaches to analyse dynamic microbial communities such as those seen in cystic fibrosis lung. Human Genomics, 2009, 3, 246.	1.4	14
63	Comparative transcriptome analyses of Pseudomonas aeruginosa. Human Genomics, 2009, 3, 349.	1.4	38
64	Direct Electrical Measurements on Single-Molecule Genomic DNA Using Single-Walled Carbon Nanotubes. Nano Letters, 2008, 8, 26-30.	4.5	113
65	The effect of environmental factors on the electrical conductivity of a single oligo-DNA molecule measured using single-walled carbon nanotube nanoelectrodes. Nanotechnology, 2008, 19, 265704.	1.3	17
66	Influence of irrigated agriculture on soil microbial diversity. Applied Soil Ecology, 2008, 40, 146-154.	2.1	36
67	A Functional Network of Yeast Genes Using Gene Ontology Information. , 2008, , .		0
68	Dynamics of Pseudomonas aeruginosa genome evolution. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3100-3105.	3.3	492
69	Attenuation of Pseudomonas aeruginosa virulence by medicinal plants in a Caenorhabditis elegans model system. Journal of Medical Microbiology, 2008, 57, 809-813.	0.7	48
70	Inhibition of Quorum Sensing-Controlled Virulence Factor Production in Pseudomonas aeruginosa by South Florida Plant Extracts. Antimicrobial Agents and Chemotherapy, 2008, 52, 198-203.	1.4	348
71	Assessing Microbial Community Diversity Using Amplicon Length Heterogeneity Polymerase Chain Reaction. Soil Science Society of America Journal, 2007, 71, 572-578.	1.2	39
72	IEM: AN ALGORITHM FOR ITERATIVE ENHANCEMENT OF MOTIFS USING COMPARATIVE GENOMICS DATA. , 2007, , .		5

#	ARTICLE	IF	CITATIONS
73	IEM: an algorithm for iterative enhancement of motifs using comparative genomics data. Computational Systems Bioinformatics / Life Sciences Society Computational Systems Bioinformatics Conference, 2007, 6, 227-35.	0.4	4
74	Anti-quorum sensing activity of medicinal plants in southern Florida. Journal of Ethnopharmacology, 2006, 105, 427-435.	2.0	243
75	An ecoinformatics tool for microbial community studies: Supervised classification of Amplicon Length Heterogeneity (ALH) profiles of 16S rRNA. Journal of Microbiological Methods, 2006, 65, 49-62.	0.7	20
76	Microbial Metagenome Profiling Using Amplicon Length Heterogeneity-Polymerase Chain Reaction Proves More Effective Than Elemental Analysis in Discriminating Soil Specimens. Journal of Forensic Sciences, 2006, 51, 1315-1322.	0.9	34
77	An assessment of the hypervariable domains of the 16S rRNA genes for their value in determining microbial community diversity: the paradox of traditional ecological indices. FEMS Microbiology Ecology, 2006, 57, 496-503.	1.3	35
78	Simple electrospray mass spectrometry detection of acylhomoserine lactones. Luminescence, 2006, 21, 1-6.	1.5	27
79	Pseudomonas aeruginosa AmpR Is a Global Transcriptional Factor That Regulates Expression of AmpC and PoxB β -Lactamases, Proteases, Quorum Sensing, and Other Virulence Factors. Antimicrobial Agents and Chemotherapy, 2005, 49, 4567-4575.	1.4	167
80	Characterization of poxB, a chromosomal-encoded Pseudomonas aeruginosa oxacillinase. Gene, 2005, 358, 82-92.	1.0	40
81	Clustering Using Adaptive Self-organizing Maps (ASOM) and Applications. Lecture Notes in Computer Science, 2005, , 944-951.	1.0	2
82	Alginate production affects Pseudomonas aeruginosa biofilm development and architecture, but is not essential for biofilm formation. Journal of Medical Microbiology, 2004, 53, 679-690.	0.7	154
83	Pseudomonas aeruginosa alginate is refractory to Th1 immune response and impedes host immune clearance in a mouse model of acute lung infection. Journal of Medical Microbiology, 2003, 52, 731-740.	0.7	76
84	Detection of DNA-Binding Helix-Turn-Helix Motifs in Proteins Using the Pattern Dictionary Method. Methods in Enzymology, 2003, 370, 250-264.	0.4	6
85	Gerimax Ginseng Regulates Both Humoral and Cellular Immunity During Chronic Pseudomonas aeruginosa Lung Infection. Journal of Alternative and Complementary Medicine, 2002, 8, 459-466.	2.1	16
86	Mining Protein Sequences for Motifs. Journal of Computational Biology, 2002, 9, 707-720.	0.8	67
87	Characterization of algG encoding C5-epimerase in the alginate biosynthetic gene cluster of Pseudomonas fluorescens. Gene, 2001, 278, 107-114.	1.0	16
88	Pseudomonas aeruginosa mutations in lasI and rhII quorum sensing systems result in milder chronic lung infection. Microbiology (United Kingdom), 2001, 147, 1105-1113.	0.7	177
89	Proteome Analysis of the Effect of Mucoid Conversion on Global Protein Expression in Pseudomonas aeruginosa Strain PAO1 Shows Induction of the Disulfide Bond Isomerase, DsbA. Journal of Bacteriology, 2000, 182, 6999-7006.	1.0	51
90	Detection of N-acylhomoserine lactones in lung tissues of mice infected with Pseudomonas aeruginosa. Microbiology (United Kingdom), 2000, 146, 2481-2493.	0.7	156

#	ARTICLE	IF	CITATIONS
91	Mucoid conversion of <i>Pseudomonas aeruginosa</i> by hydrogen peroxide: a mechanism for virulence activation in the cystic fibrosis lung. <i>Microbiology (United Kingdom)</i> , 1999, 145, 1349-1357.	0.7	437
92	THE ANTI-SIGMA FACTORS. <i>Annual Review of Microbiology</i> , 1998, 52, 231-286.	2.9	307
93	Posttranslational control of the algT (algU)-encoded sigma22 for expression of the alginate regulon in <i>Pseudomonas aeruginosa</i> and localization of its antagonist proteins MucA and MucB (AlgN). <i>Journal of Bacteriology</i> , 1997, 179, 3711-3720.	1.0	161
94	The Bacteriophage Mu Middle Operon: Essential and Nonessential Functions. <i>Virology</i> , 1993, 196, 712-721.	1.1	3
95	Bacteriophage Mu Mor protein requires sigma 70 to activate the Mu middle promoter. <i>Journal of Bacteriology</i> , 1993, 175, 5314-5323.	1.0	14
96	Identification of a positive regulator of the Mu middle operon. <i>Journal of Bacteriology</i> , 1990, 172, 6641-6650.	1.0	41