

# Omai B Garner

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,686  
citations

394421

19  
h-index

302126

39  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2992  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellphone-Based Hand-Held Microplate Reader for Point-of-Care Testing of Enzyme-Linked Immunosorbent Assays. <i>ACS Nano</i> , 2015, 9, 7857-7866.	14.6	300
2	Galectin-1 glycan lattices regulate cell-surface glycoprotein organization and signalling. <i>Biochemical Society Transactions</i> , 2008, 36, 1472-1477.	3.4	189
3	Clinical Impact of Metagenomic Next-Generation Sequencing of Plasma Cell-Free DNA for the Diagnosis of Infectious Diseases: A Multicenter Retrospective Cohort Study. <i>Clinical Infectious Diseases</i> , 2021, 72, 239-245.	5.8	158
4	Highly Stable and Sensitive Nucleic Acid Amplification and Cell-Phone-Based Readout. <i>ACS Nano</i> , 2017, 11, 2934-2943.	14.6	101
5	Point-of-Care Serodiagnostic Test for Early-Stage Lyme Disease Using a Multiplexed Paper-Based Immunoassay and Machine Learning. <i>ACS Nano</i> , 2020, 14, 229-240.	14.6	66
6	Endothelial Galectin-1 Binds to Specific Glycans on Nipah Virus Fusion Protein and Inhibits Maturation, Mobility, and Function to Block Syncytia Formation. <i>PLoS Pathogens</i> , 2010, 6, e1000993.	4.7	62
7	Comparison of the Vitek MS and Bruker Microflex LT MALDI-TOF MS platforms for routine identification of commonly isolated bacteria and yeast in the clinical microbiology laboratory. <i>Diagnostic Microbiology and Infectious Disease</i> , 2015, 81, 27-33.	1.8	61
8	Homogeneous Entropy-Driven Amplified Detection of Biomolecular Interactions. <i>ACS Nano</i> , 2016, 10, 7467-7475.	14.6	54
9	Stage-dependent regulation of mammary ductal branching by heparan sulfate and HGF-cMet signaling. <i>Developmental Biology</i> , 2011, 355, 394-403.	2.0	46
10	Massively scaled-up testing for SARS-CoV-2 RNA via next-generation sequencing of pooled and barcoded nasal and saliva samples. <i>Nature Biomedical Engineering</i> , 2021, 5, 657-665.	22.5	46
11	Multicenter validation of the VITEK MS v2.0 MALDI-TOF mass spectrometry system for the identification of fastidious gram-negative bacteria. <i>Diagnostic Microbiology and Infectious Disease</i> , 2014, 78, 129-131.	1.8	39
12	Timing of Galectin-1 Exposure Differentially Modulates Nipah Virus Entry and Syncytium Formation in Endothelial Cells. <i>Journal of Virology</i> , 2015, 89, 2520-2529.	3.4	36
13	Coinfections of Two Strains of NDM-1- and OXA-232-Coproducing <i>Klebsiella pneumoniae</i> in a Kidney Transplant Patient. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	35
14	High-throughput and automated diagnosis of antimicrobial resistance using a cost-effective cellphone-based micro-plate reader. <i>Scientific Reports</i> , 2016, 6, 39203.	3.3	32
15	Assessment of Reproducibility of Matrix-Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry for Bacterial and Yeast Identification. <i>Journal of Clinical Microbiology</i> , 2015, 53, 2349-2352.	3.9	30
16	The systemic inflammatory landscape of COVID-19 in pregnancy: Extensive serum proteomic profiling of mother-infant dyads with in utero SARS-CoV-2. <i>Cell Reports Medicine</i> , 2021, 2, 100453.	6.5	28
17	Fractal LAMP: Label-Free Analysis of Fractal Precipitate for Digital Loop-Mediated Isothermal Nucleic Acid Amplification. <i>ACS Sensors</i> , 2020, 5, 385-394.	7.8	27
18	Validation and Retrospective Clinical Evaluation of a Quantitative 16S rRNA Gene Metagenomic Sequencing Assay for Bacterial Pathogen Detection in Body Fluids. <i>Journal of Molecular Diagnostics</i> , 2019, 21, 913-923.	2.8	21

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19	Computational cytometer based on magnetically modulated coherent imaging and deep learning. <i>Light: Science and Applications</i> , 2019, 8, 91.	16.6	21
20	A Multi-Level Fit-Based Quality Improvement Initiative to Improve Colorectal Cancer Screening in a Managed Care Population. <i>Clinical and Translational Gastroenterology</i> , 2018, 9, e177.	2.5	20
21	Amplicon-Based Next-Generation Sequencing for Detection of Fungi in Formalin-Fixed, Paraffin-Embedded Tissues. <i>Journal of Molecular Diagnostics</i> , 2020, 22, 1287-1293.	2.8	20
22	Performance Characteristics of Severe Acute Respiratory Syndrome Coronavirus 2 RT-PCR Tests in a Single Health System. <i>Journal of Molecular Diagnostics</i> , 2021, 23, 159-163.	2.8	19
23	Prospective clinical validation of 3D printed nasopharyngeal swabs for diagnosis of COVID-19. <i>Diagnostic Microbiology and Infectious Disease</i> , 2021, 99, 115257.	1.8	19
24	Validation, Implementation, and Clinical Utility of Whole Genome Sequence-Based Bacterial Identification in the Clinical Microbiology Laboratory. <i>Journal of Molecular Diagnostics</i> , 2021, 23, 1468-1477.	2.8	17
25	Quantitative particle agglutination assay for point-of-care testing using mobile holographic imaging and deep learning. <i>Lab on A Chip</i> , 2021, 21, 3550-3558.	6.0	17
26	Low prevalence (0.13%) of COVID-19 infection in asymptomatic pre-operative/pre-procedure patients at a large, academic medical center informs approaches to perioperative care. <i>Surgery</i> , 2020, 168, 980-986.	1.9	16
27	Age- and Sex-Associated Variations in the Sensitivity of Serological Tests Among Individuals Infected With SARS-CoV-2. <i>JAMA Network Open</i> , 2021, 4, e210337.	5.9	12
28	Ensuring the Quality of Point-of-Care Testing in a Large and Decentralized Ambulatory Care Setting. <i>American Journal of Clinical Pathology</i> , 2017, 148, 336-344.	0.7	11
29	Clinical Whole Genome Sequencing for Clarithromycin and Amikacin Resistance Prediction and Subspecies Identification of <i>Mycobacterium abscessus</i> . <i>Journal of Molecular Diagnostics</i> , 2021, 23, 1460-1467.	2.8	11
30	Carbapenem Resistant <i>Aeromonas hydrophila</i> Carrying bla <sub>phA7</sub> Isolated From Two Solid Organ Transplant Patients. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 563482.	3.9	10
31	Multicenter Clinical Evaluation of Etest Meropenem-Vaborbactam (bioMérieux) for Susceptibility Testing of <i>Enterobacteriales</i> ( <i>Enterobacteriaceae</i> ) and <i>Pseudomonas aeruginosa</i> . <i>Journal of Clinical Microbiology</i> , 2019, 58, .	3.9	9
32	Noninterruptive Clinical Decision Support Decreases Ordering of Respiratory Viral Panels during Influenza Season. <i>Applied Clinical Informatics</i> , 2020, 11, 315-322.	1.7	9
33	At-Home Testing for Infectious Diseases: The Laboratory Where You Live. <i>Clinical Chemistry</i> , 2021, 68, 19-26.	3.2	9
34	Investigation of SARS-CoV-2 Epsilon Variant and Hospitalization Status by Genomic Surveillance in a Single Large Health System During the 2020-2021 Winter Surge in Southern California. <i>American Journal of Clinical Pathology</i> , 2022, 157, 649-652.	0.7	9
35	SARS-CoV-2 Infection Detection by PCR and Serologic Testing in Clinical Practice. <i>Journal of Clinical Microbiology</i> , 2021, 59, e0043121.	3.9	8
36	Diagnostic yield of repeat testing for SARS-CoV-2: Experience from a large health system in Los Angeles. <i>International Journal of Infectious Diseases</i> , 2020, 100, 298-301.	3.3	7

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37	Investigation of Phylogeny and Drug Resistance Mechanisms of <i>Elizabethkingia anophelis</i> Isolated from Blood and Lower Respiratory Tract. <i>Microbial Drug Resistance</i> , 2021, 27, 1259-1264.	2.0	7
38	Point-of-Care Testing for Group A Streptococcus Infection and Influenza. <i>Clinical Microbiology Newsletter</i> , 2017, 39, 151-157.	0.7	5
39	Differential DNA accessibility to polymerase enables 30-minute phenotypic $\hat{I}^2$ -lactam antibiotic susceptibility testing of carbapenem-resistant Enterobacteriaceae. <i>PLoS Biology</i> , 2020, 18, e3000652.	5.6	5
40	Deceiving Phenotypic Susceptibility Results on a <i>Klebsiella pneumoniae</i> Blood Isolate Carrying Plasmid-Mediated AmpC Gene blaDHA-1. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 561880.	3.9	5
41	<i>Catabacter hongkongensis</i> bacteremia identified by direct metagenomic sequencing of positive blood culture fluid, first case report in the US. <i>Anaerobe</i> , 2021, 71, 102421.	2.1	5
42	Infectious Keratitis Isolates and Susceptibility in Southern California. <i>Cornea</i> , 2022, 41, 1094-1102.	1.7	5
43	Lower SARS-CoV-2 viral shedding following COVID-19 vaccination among healthcare workers in Los Angeles, California. <i>Open Forum Infectious Diseases</i> , 2021, 8, ofab526.	0.9	5
44	An Unusual Carbapenem Resistant <i>Escherichia coli</i> Carrying Plasmid-mediated AmpC and Mutated ompC in A Patient with Recurrent Urinary Tract Infections. <i>IDCases</i> , 2020, 20, e00781.	0.9	4
45	Retrospective Detection of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in Symptomatic Patients Prior to Widespread Diagnostic Testing in Southern California. <i>Clinical Infectious Diseases</i> , 2022, 74, 271-277.	5.8	4
46	Multicenter Clinical Evaluation of Vitek 2 Meropenem-Vaborbactam for Susceptibility Testing of <i>Enterobacterales</i> and <i>Pseudomonas aeruginosa</i> . <i>Journal of Clinical Microbiology</i> , 2022, 60, JCM0161021.	3.9	3
47	2131. Multicenter Evaluation of Meropenem/Vaborbactam MIC Results for Enterobacteriaceae Using MicroScan Dried Gram-Negative MIC Panels. <i>Open Forum Infectious Diseases</i> , 2019, 6, S722-S722.	0.9	1
48	Factors associated with repeat rectal <i>Neisseria gonorrhoeae</i> and <i>Chlamydia trachomatis</i> screening following inconclusive nucleic acid amplification testing: A potential missed opportunity for screening. <i>PLoS ONE</i> , 2019, 14, e0226413.	2.5	1
49	Current Testing Strategies for SARS-CoV-2 in the United States. <i>Clinical Chemistry</i> , 2021, 67, 935-940.	3.2	1
50	Unusual presentation of meningococcal meningitis in the elderly and utility of CSF PCR testing. <i>Access Microbiology</i> , 2020, 2, acmi000158.	0.5	1
51	Utilization of whole genome sequencing for resolution of discrepant <i>Mycobacterium tuberculosis</i> drug susceptibility results: A case report. <i>IDCases</i> , 2021, 26, e01308.	0.9	1
52	Implementation of Hospital-Based <i>Candida auris</i> Surveillance Screening Among At-Risk Patients. <i>Infection Control and Hospital Epidemiology</i> , 2020, 41, s277-s278.	1.8	1
53	Microbial recovery from clot-activating Vacutainers <sup>®</sup> . <i>Diagnostic Microbiology and Infectious Disease</i> , 2016, 85, 395-397.	1.8	0
54	Clinical Comparison of the NOWDiagnostics' ADEXUSDx Human Chorionic Gonadotropin Point-of-Care Test with the Roche Elecsys hCG + $\hat{I}^2$ for the Serum Measurement of Human Chorionic Gonadotropin. <i>Journal of Applied Laboratory Medicine</i> , The, 2017, 2, 234-237.	1.3	0

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55	P013â€¦Screening practices related to inconclusiveneisseria gonorrhoeaeandchlamydia trachomatisnucleic acid amplification testing. , 2019, , .		0
56	2132. Multicenter Evaluation of Eravacycline MIC Results for Enterobacteriaceae Using MicroScan Dried Gram-Negative MIC Panels. Open Forum Infectious Diseases, 2019, 6, S722-S722.	0.9	0
57	640. Randomized Clinical Trial Evaluating Clinical Impact of RAPid Identification and Antimicrobial Susceptibility Testing for Gram-Negative Bacteremia (RAPIDS-GN). Open Forum Infectious Diseases, 2019, 6, S296-S297.	0.9	0
58	Novel Use of Rapid Antigen Influenza Testing in the Outpatient Setting To Provide an Early Warning Sign of Influenza Activity in the Emergency Departments of an Integrated Health System. Journal of Clinical Microbiology, 2020, 58, .	3.9	0
59	The Path of More Resistance: A Comparison of NHSN and CLSI Criteria in Developing Cumulative Antimicrobial Susceptibility Test Reports and Institutional Antibiograms. Journal of Clinical Microbiology, 2021, , JCM0136621.	3.9	0
60	Genomic epidemiology of the Los Angeles COVID-19 outbreak and the early history of the B.1.43 strain in the USA. BMC Genomics, 2022, 23, 260.	2.8	0