

Matthew J Binnicker

List of Publications by Year in descending order

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69
papers

2,864
citations

257450

24
h-index

182427

51
g-index

71
all docs

71
docs citations

71
times ranked

4158
citing authors

#	ARTICLE	IF	CITATIONS
1	A Guide to Utilization of the Microbiology Laboratory for Diagnosis of Infectious Diseases: 2018 Update by the Infectious Diseases Society of America and the American Society for Microbiology. <i>Clinical Infectious Diseases</i> , 2018, 67, e1-e94.	5.8	345
2	Comparative Evaluation of Two Commercial Multiplex Panels for Detection of Gastrointestinal Pathogens by Use of Clinical Stool Specimens. <i>Journal of Clinical Microbiology</i> , 2014, 52, 3667-3673.	3.9	243
3	A Guide to Utilization of the Microbiology Laboratory for Diagnosis of Infectious Diseases: 2018 Update by the Infectious Diseases Society of America and the American Society for Microbiology. <i>Clinical Infectious Diseases</i> , 2018, 67, 813-816.	5.8	225
4	Syndromic Panel-Based Testing in Clinical Microbiology. <i>Clinical Microbiology Reviews</i> , 2018, 31, .	13.6	182
5	Multiplex Molecular Panels for Diagnosis of Gastrointestinal Infection: Performance, Result Interpretation, and Cost-Effectiveness. <i>Journal of Clinical Microbiology</i> , 2015, 53, 3723-3728.	3.9	171
6	Evaluation of a Commercial Multiplex Molecular Panel for Diagnosis of Infectious Meningitis and Encephalitis. <i>Journal of Clinical Microbiology</i> , 2018, 56, .	3.9	123
7	Emergence of a Novel Coronavirus Disease (COVID-19) and the Importance of Diagnostic Testing: Why Partnership between Clinical Laboratories, Public Health Agencies, and Industry Is Essential to Control the Outbreak. <i>Clinical Chemistry</i> , 2020, 66, 664-666.	3.2	107
8	Challenges and Controversies to Testing for COVID-19. <i>Journal of Clinical Microbiology</i> , 2020, 58, .	3.9	104
9	CSF herpes virus and autoantibody profiles in the evaluation of encephalitis. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2016, 3, e245.	6.0	96
10	Evaluation of Saline, Phosphate-Buffered Saline, and Minimum Essential Medium as Potential Alternatives to Viral Transport Media for SARS-CoV-2 Testing. <i>Journal of Clinical Microbiology</i> , 2020, 58, .	3.9	92
11	Direct Comparison of the Traditional and Reverse Syphilis Screening Algorithms in a Population with a Low Prevalence of Syphilis. <i>Journal of Clinical Microbiology</i> , 2012, 50, 148-150.	3.9	85
12	Direct Detection of Influenza A and B Viruses in Less Than 20 Minutes Using a Commercially Available Rapid PCR Assay. <i>Journal of Clinical Microbiology</i> , 2015, 53, 2353-2354.	3.9	80
13	Point-Counterpoint: It Is Time To Use Treponema-Specific Antibody Screening Tests for Diagnosis of Syphilis. <i>Journal of Clinical Microbiology</i> , 2012, 50, 2-6.	3.9	70
14	Which algorithm should be used to screen for syphilis?. <i>Current Opinion in Infectious Diseases</i> , 2012, 25, 79-85.	3.1	63
15	<i>Pneumocystis jirovecii</i> testing by real-time polymerase chain reaction and direct examination among immunocompetent and immunosuppressed patient groups and correlation to disease specificity. <i>Diagnostic Microbiology and Infectious Disease</i> , 2011, 69, 145-152.	1.8	62
16	Detection of (1, 3)- β -d-glucan in bronchoalveolar lavage and serum samples collected from immunocompromised hosts. <i>Mycopathologia</i> , 2013, 175, 33-41.	3.1	60
17	Can Testing Predict SARS-CoV-2 Infectivity? The Potential for Certain Methods To Be Surrogates for Replication-Competent Virus. <i>Journal of Clinical Microbiology</i> , 2021, 59, e0046921.	3.9	52
18	Evaluation of the Cue Health point-of-care COVID-19 (SARS-CoV-2 nucleic acid amplification) test at a community drive through collection center. <i>Diagnostic Microbiology and Infectious Disease</i> , 2021, 100, 115307.	1.8	43

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19	Long-term SARS-CoV-2 RNA shedding and its temporal association to IgG seropositivity. <i>Cell Death Discovery</i> , 2020, 6, 138.	4.7	41
20	Morbidity and mortality among patients with respiratory syncytial virus infection: a 2-year retrospective review. <i>Diagnostic Microbiology and Infectious Disease</i> , 2016, 85, 367-371.	1.8	39
21	Rapid and Direct Detection of Herpes Simplex Virus in Cerebrospinal Fluid by Use of a Commercial Real-Time PCR Assay. <i>Journal of Clinical Microbiology</i> , 2014, 52, 4361-4362.	3.9	38
22	Percent positive rate of Lyme real-time polymerase chain reaction in blood, cerebrospinal fluid, synovial fluid, and tissue. <i>Diagnostic Microbiology and Infectious Disease</i> , 2008, 62, 464-466.	1.8	37
23	Seasonality of Coronavirus 229E, HKU1, NL63, and OC43 From 2014 to 2020. <i>Mayo Clinic Proceedings</i> , 2020, 95, 1701-1703.	3.0	29
24	Can the Severe Acute Respiratory Syndrome Coronavirus 2 Polymerase Chain Reaction Cycle Threshold Value and Time From Symptom Onset to Testing Predict Infectivity?. <i>Clinical Infectious Diseases</i> , 2020, 71, 2667-2668.	5.8	28
25	Cytomegalovirus (<scp>CMV</scp>) <scp>DNA</scp> quantification in bronchoalveolar lavage fluid of immunocompromised patients with <scp>CMV</scp> pneumonia. <i>Clinical Transplantation</i> , 2018, 32, e13149.	1.6	27
26	Association Between SARS-CoV-2 Cycle Threshold Values and Clinical Outcomes in Patients With COVID-19: A Systematic Review and Meta-analysis. <i>Open Forum Infectious Diseases</i> , 2021, 8, ofab453.	0.9	27
27	Evaluation of the Bio-Rad BioPlex Measles, Mumps, Rubella, and Varicella-Zoster Virus IgG Multiplex Bead Immunoassay. <i>Vaccine Journal</i> , 2011, 18, 1524-1526.	3.1	26
28	The role of multiplex molecular panels for the diagnosis of gastrointestinal infections in immunocompromised patients. <i>Current Opinion in Infectious Diseases</i> , 2016, 29, 359-365.	3.1	25
29	Evaluation of 2 multiplex real-time PCR assays for the detection of HSV-1/2 and Varicella zoster virus directly from clinical samples. <i>Diagnostic Microbiology and Infectious Disease</i> , 2015, 81, 169-170.	1.8	24
30	Comparison of Respiratory Pathogen Detection in Upper versus Lower Respiratory Tract Samples Using the BioFire FilmArray Respiratory Panel in the Immunocompromised Host. <i>Canadian Respiratory Journal</i> , 2018, 2018, 1-6.	1.6	22
31	Meningeal Coccidioidomycosis Diagnosed by Real-Time Polymerase Chain Reaction Analysis of Cerebrospinal Fluid. <i>Mycopathologia</i> , 2011, 171, 285-289.	3.1	21
32	Automated processing, extraction and detection of herpes simplex virus types 1 and 2: A comparative evaluation of three commercial platforms using clinical specimens. <i>Journal of Clinical Virology</i> , 2017, 89, 30-33.	3.1	18
33	Optimizing Antimicrobial Susceptibility Test Reporting. <i>Journal of Clinical Microbiology</i> , 2011, 49, .	3.9	17
34	Guillain-Barré Syndrome in a Patient With Evidence of Recent SARS-CoV-2 Infection. <i>Mayo Clinic Proceedings</i> , 2020, 95, 1799-1801.	3.0	17
35	SARS-CoV-2 Testing Before International Airline Travel, December 2020 to May 2021. <i>Mayo Clinic Proceedings</i> , 2021, 96, 2856-2860.	3.0	15
36	Decrease in Enteroviral Meningitis: An Unexpected Benefit of Coronavirus Disease 2019 (COVID-19) Mitigation?. <i>Clinical Infectious Diseases</i> , 2021, 73, e2807-e2809.	5.8	14

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37	Digital Health Surveillance Strategies for Management of Coronavirus Disease 2019. Mayo Clinic Proceedings Innovations, Quality & Outcomes, 2021, 5, 109-117.	2.4	13
38	An Assessment of the AdenoPlus Point-of-Care Test for Diagnosing Adenoviral Conjunctivitis and Its Effect on Antibiotic Stewardship. Mayo Clinic Proceedings Innovations, Quality & Outcomes, 2017, 1, 170-175.	2.4	12
39	Assessment of Test Performance and Potential for Environmental Contamination Associated with a Point-of-Care Molecular Assay for Group A <i>Streptococcus</i> in an End User Setting. Journal of Clinical Microbiology, 2019, 57, .	3.9	12
40	Retrospective Review of Clinical Utility of Shotgun Metagenomic Sequencing Testing of Cerebrospinal Fluid from a U.S. Tertiary Care Medical Center. Journal of Clinical Microbiology, 2020, 58, .	3.9	12
41	Low Utility of Repeat Real-Time PCR Testing for SARS-CoV-2 in Clinical Specimens. Mayo Clinic Proceedings, 2020, 95, 1942-1945.	3.0	11
42	Detection of IgG-class antibodies to measles, mumps, rubella, and varicella-zoster virus using a multiplex bead immunoassay. Diagnostic Microbiology and Infectious Disease, 2010, 67, 346-349.	1.8	10
43	Indoor Environment and Viral Infections. Mayo Clinic Proceedings, 2020, 95, 1581-1583.	3.0	9
44	Utility of Follow-up Coronavirus Disease 2019 (COVID-19) Antigen Tests After Acute Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection Among Healthcare Personnel. Clinical Infectious Diseases, 2022, 75, e347-e349.	5.8	9
45	Prolonged shedding of pandemic influenza A (H1N1) 2009 virus in a pancreas-after-kidney transplant recipient. Journal of Clinical Virology, 2014, 61, 302-304.	3.1	8
46	Simultaneous Detection of Herpes Simplex Virus 1 and 2 in the Cerebrospinal Fluid of a Patient with Seizures and Encephalitis. Journal of Clinical Microbiology, 2015, 53, 343-345.	3.9	8
47	Potential impact of contaminated bronchoscopes on novel coronavirus disease (COVID-19) patients. Infection Control and Hospital Epidemiology, 2020, 41, 862-864.	1.8	8
48	A High Percentage of Serum Samples That Test Reactive by Enzyme Immunoassay for Anti-Brucella Antibodies Are Not Confirmed by the Standard Tube Agglutination Test. Vaccine Journal, 2012, 19, 1332-1334.	3.1	7
49	Evaluation of Self-Collected Midturbinate Nasal Swabs and Saliva for Detection of SARS-CoV-2 RNA. Journal of Clinical Microbiology, 2021, 59, e0084821.	3.9	7
50	Detection of high-risk human papillomavirus infection in tonsillar specimens using 2 commercially available assays. Diagnostic Microbiology and Infectious Disease, 2016, 86, 365-368.	1.8	6
51	Diagnostic Stewardship: An Essential Element in a Rapidly Evolving COVID-19 Pandemic. Mayo Clinic Proceedings, 2020, 95, S17-S19.	3.0	6
52	Adherence to Public Health Measures Mitigates the Risk of COVID-19 Infection in Older Adults: A Community-Based Study. Mayo Clinic Proceedings, 2021, 96, 912-920.	3.0	6
53	Immunoassays for Diagnosis of Infectious Diseases. , 0, , 91-105.		6
54	Presence of immune deficiency increases the risk of hospitalization in patients with norovirus infection. Diagnostic Microbiology and Infectious Disease, 2018, 90, 300-306.	1.8	5

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55	Evaluation of the BinaxNOW COVID-19 Rapid Antigen Test in an Asymptomatic Patient Population Undergoing Preprocedural Screening. <i>Journal of Clinical Microbiology</i> , 2021, 59, e0165021.	3.9	5
56	Comparison of the Panther Fusion respiratory panels to routine methods for detection of viruses in upper and lower respiratory tract specimens. <i>Diagnostic Microbiology and Infectious Disease</i> , 2020, 97, 115014.	1.8	4
57	Three-tier stratification for CNS COVID-19 to help decide which patients should undergo lumbar puncture with CSF analysis: A case report and literature review. <i>Romanian Journal of Internal Medicine = Revue Roumaine De Medecine Interne</i> , 2020, 59, 88-92.	0.6	4
58	Testing for Herpes Simplex Virus in Low-Volume Cerebrospinal Fluid Samples: Comparison of Three Protocols To Optimize Detection. <i>Journal of Clinical Microbiology</i> , 2015, 53, 3897-3899.	3.9	3
59	A kidney transplant recipient with renal medullary viral cytopathic changes. <i>Transplant Infectious Disease</i> , 2017, 19, e12646.	1.7	3
60	Evaluation of high-risk human papillomavirus testing and anal cytology to detect high-grade anal intraepithelial neoplasia. <i>Journal of the American Society of Cytopathology</i> , 2021, 10, 406-413.	0.5	3
61	Lack of evidence for rapid transmission of Lyme disease following a tick bite. <i>Diagnostic Microbiology and Infectious Disease</i> , 2012, 73, 102-103.	1.8	2
62	Closing the Brief Case: A 10-Year-Old Girl with Meningoencephalitis. <i>Journal of Clinical Microbiology</i> , 2018, 56, .	3.9	2
63	Performance of three polymerase chain reaction-based assays for detection of SARS-CoV-2 in different upper respiratory tract specimens. <i>Diagnostic Microbiology and Infectious Disease</i> , 2021, 101, 115441.	1.8	2
64	A 48-Year-Old Somali Woman with Hip Pain. <i>Clinical Infectious Diseases</i> , 2009, 49, 803-805.	5.8	1
65	The Brief Case: A 10-Year-Old Girl with Meningoencephalitis. <i>Journal of Clinical Microbiology</i> , 2018, 56, .	3.9	1
66	From the Common Cold to a Chaotic Contagion: the Potential for Coronaviruses To Cause Outbreaks of Severe Respiratory Disease Representing a Global Health Threat. <i>Clinical Microbiology Newsletter</i> , 2020, 42, 95-103.	0.7	1
67	Diagnosis and Monitoring of Viral Infections in the Transplant Population. <i>Clinical Microbiology Newsletter</i> , 2021, 43, 157-166.	0.7	1
68	In Reply—Repeated Testing in SARS-CoV-2 Infection. <i>Mayo Clinic Proceedings</i> , 2020, 95, 2284-2285.	3.0	0
69	Initial SARS-CoV-2 PCR crossing point does not predict hospitalization and duration of PCR positivity. <i>Journal of Microbiology, Immunology and Infection</i> , 2021, 54, 77-80.	3.1	0