

Blake W Buchan

List of Publications by Year in descending order

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papers

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citations

136950

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149698

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91
all docs

91
docs citations

91
times ranked

4518
citing authors

#	ARTICLE	IF	CITATIONS
1	Racial Disparities in Incidence and Outcomes Among Patients With COVID-19. <i>JAMA Network Open</i> , 2020, 3, e2021892.	5.9	296
2	Emerging Technologies for the Clinical Microbiology Laboratory. <i>Clinical Microbiology Reviews</i> , 2014, 27, 783-822.	13.6	236
3	Comparison of the MALDI Biotyper System Using Sepsityper Specimen Processing to Routine Microbiological Methods for Identification of Bacteria from Positive Blood Culture Bottles. <i>Journal of Clinical Microbiology</i> , 2012, 50, 346-352.	3.9	167
4	Resistance Mechanisms, Epidemiology, and Approaches to Screening for Vancomycin-Resistant Enterococcus in the Health Care Setting. <i>Journal of Clinical Microbiology</i> , 2016, 54, 2436-2447.	3.9	165
5	Multicenter Evaluation of the Accelerate PhenoTest BC Kit for Rapid Identification and Phenotypic Antimicrobial Susceptibility Testing Using Morphokinetic Cellular Analysis. <i>Journal of Clinical Microbiology</i> , 2018, 56, .	3.9	130
6	Practical Comparison of the BioFire FilmArray Pneumonia Panel to Routine Diagnostic Methods and Potential Impact on Antimicrobial Stewardship in Adult Hospitalized Patients with Lower Respiratory Tract Infections. <i>Journal of Clinical Microbiology</i> , 2020, 58, .	3.9	126
7	Identification of Gram-Negative Bacteria and Genetic Resistance Determinants from Positive Blood Culture Broths by Use of the Verigene Gram-Negative Blood Culture Multiplex Microarray-Based Molecular Assay. <i>Journal of Clinical Microbiology</i> , 2015, 53, 2460-2472.	3.9	124
8	Multicenter Evaluation of the BioFire FilmArray Pneumonia/Pneumonia Plus Panel for Detection and Quantification of Agents of Lower Respiratory Tract Infection. <i>Journal of Clinical Microbiology</i> , 2020, 58, .	3.9	119
9	Multiplex Identification of Gram-Positive Bacteria and Resistance Determinants Directly from Positive Blood Culture Broths: Evaluation of an Automated Microarray-Based Nucleic Acid Test. <i>PLoS Medicine</i> , 2013, 10, e1001478.	8.4	110
10	Protocols for production of selenomethionine-labeled proteins in 2-L polyethylene terephthalate bottles using auto-induction medium. <i>Protein Expression and Purification</i> , 2005, 40, 256-267.	1.3	104
11	Multiple mechanisms of NADPH oxidase inhibition by type A and type B Francisella tularensis. <i>Journal of Leukocyte Biology</i> , 2010, 88, 791-805.	3.3	86
12	Multicenter Evaluation of the BD Max Enteric Bacterial Panel PCR Assay for Rapid Detection of Salmonella spp., Shigella spp., Campylobacter spp. (C. jejuni and C. coli), and Shiga Toxin 1 and 2 Genes. <i>Journal of Clinical Microbiology</i> , 2015, 53, 1639-1647.	3.9	80
13	Effects of Solid-Medium Type on Routine Identification of Bacterial Isolates by Use of Matrix-Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2012, 50, 1008-1013.	3.9	77
14	Advances in Identification of Clinical Yeast Isolates by Use of Matrix-Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry. <i>Journal of Clinical Microbiology</i> , 2013, 51, 1359-1366.	3.9	77
15	Matrix-Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry for Use with Positive Blood Cultures: Methodology, Performance, and Optimization. <i>Journal of Clinical Microbiology</i> , 2017, 55, 3328-3338.	3.9	77
16	Cutting Edge: Mutation of Francisella tularensis mviN Leads to Increased Macrophage Absent in Melanoma 2 Inflammasome Activation and a Loss of Virulence. <i>Journal of Immunology</i> , 2010, 185, 2670-2674.	0.8	73
17	Francisella tularensis Genes Required for Inhibition of the Neutrophil Respiratory Burst and Intramacrophage Growth Identified by Random Transposon Mutagenesis of Strain LVS. <i>Infection and Immunity</i> , 2009, 77, 1324-1336.	2.2	69
18	Comparison of MALDI-TOF MS With HPLC and Nucleic Acid Sequencing for the Identification of Mycobacterium Species in Cultures Using Solid Medium and Broth. <i>American Journal of Clinical Pathology</i> , 2014, 141, 25-34.	0.7	69

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19	Identification of <i>migR</i> , a Regulatory Element of the <i>Francisella tularensis</i> Live Vaccine Strain <i>igIABCD</i> Virulence Operon Required for Normal Replication and Trafficking in Macrophages. <i>Infection and Immunity</i> , 2009, 77, 2517-2529.	2.2	67
20	Clinical Evaluation of a Real-Time PCR Assay for Identification of Salmonella, Shigella, Campylobacter (<i>Campylobacter jejuni</i> and <i>C. coli</i>), and Shiga Toxin-Producing <i>Escherichia coli</i> Isolates in Stool Specimens. <i>Journal of Clinical Microbiology</i> , 2013, 51, 4001-4007.	3.9	67
21	Distribution of SARS-CoV-2 PCR Cycle Threshold Values Provide Practical Insight Into Overall and Target-Specific Sensitivity Among Symptomatic Patients. <i>American Journal of Clinical Pathology</i> , 2020, 154, 479-485.	0.7	66
22	Comparison of the Next-Generation Xpert MRSA/SA BC Assay and the GeneOhm StaphSR Assay to Routine Culture for Identification of <i>Staphylococcus aureus</i> and Methicillin-Resistant <i>S. aureus</i> in Positive-Blood-Culture Broths. <i>Journal of Clinical Microbiology</i> , 2015, 53, 804-809.	3.9	63
23	Comparison of the BD MAX Enteric Bacterial Panel to Routine Culture Methods for Detection of Campylobacter, Enterohemorrhagic <i>Escherichia coli</i> (O157), Salmonella, and Shigella Isolates in Preserved Stool Specimens. <i>Journal of Clinical Microbiology</i> , 2014, 52, 1222-1224.	3.9	52
24	Multicenter Clinical Evaluation of the <i>illumina</i> gene Group A Streptococcus DNA Amplification Assay for Detection of Group A Streptococcus from Pharyngeal Swabs. <i>Journal of Clinical Microbiology</i> , 2013, 51, 1474-1477.	3.9	48
25	Automated Scoring of Chromogenic Media for Detection of Methicillin-Resistant <i>Staphylococcus aureus</i> by Use of WASPLab Image Analysis Software. <i>Journal of Clinical Microbiology</i> , 2016, 54, 620-624.	3.9	48
26	Light Microscopy, Culture, Molecular, and Serologic Methods for Detection of Herpes Simplex Virus. <i>Journal of Clinical Microbiology</i> , 2014, 52, 2-8.	3.9	43
27	<i>Elizabethkingia anophelis</i> : Clinical Experience of an Academic Health System in Southeastern Wisconsin. <i>Open Forum Infectious Diseases</i> , 2017, 4, ofx251.	0.9	39
28	Light-induced exacerbation of retinal degeneration in a rat model of Smith-Lemli-Opitz syndrome. <i>Experimental Eye Research</i> , 2006, 82, 496-504.	2.6	38
29	Multicenter Clinical Evaluation of the Xpert GBS LB Assay for Detection of Group B Streptococcus in Prenatal Screening Specimens. <i>Journal of Clinical Microbiology</i> , 2015, 53, 443-448.	3.9	38
30	Campylobacter culture fails to correctly detect Campylobacter in 30% of positive patient stool specimens compared to non-cultural methods. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2019, 38, 1087-1093.	2.9	38
31	Automatic Digital Analysis of Chromogenic Media for Vancomycin-Resistant-Enterococcus Screens Using Copan WASPLab. <i>Journal of Clinical Microbiology</i> , 2016, 54, 2464-2469.	3.9	37
32	Real-Time Detection of Influenza A, Influenza B, and Respiratory Syncytial Virus A and B in Respiratory Specimens by Use of Nanoparticle Probes. <i>Journal of Clinical Microbiology</i> , 2010, 48, 3997-4002.	3.9	36
33	Multicenter Clinical Evaluation of the Portrait Toxigenic <i>C. difficile</i> Assay for Detection of Toxigenic <i>Clostridium difficile</i> Strains in Clinical Stool Specimens. <i>Journal of Clinical Microbiology</i> , 2012, 50, 3932-3936.	3.9	35
34	Multicenter Study Demonstrates Standardization Requirements for Mold Identification by MALDI-TOF MS. <i>Frontiers in Microbiology</i> , 2019, 10, 2098.	3.5	35
35	Identification of Differentially Regulated <i>Francisella tularensis</i> Genes by Use of a Newly Developed Tn5-Based Transposon Delivery System. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2637-2645.	3.1	34
36	Is Staphylococcal Screening and Suppression an Effective Interventional Strategy for Reduction of Surgical Site Infection?. <i>Surgical Infections</i> , 2016, 17, 158-166.	1.4	33

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37	Multicenter Evaluation of the Xpert Norovirus Assay for Detection of Norovirus Genogroups I and II in Fecal Specimens. <i>Journal of Clinical Microbiology</i> , 2016, 54, 142-147.	3.9	32
38	Multicenter Evaluation of the Verigene Clostridium difficile Nucleic Acid Assay. <i>Journal of Clinical Microbiology</i> , 2013, 51, 4120-4125.	3.9	31
39	Multicenter Evaluation of the Bruker MALDI Biotyper CA System for the Identification of Clinical Aerobic Gram-Negative Bacterial Isolates. <i>PLoS ONE</i> , 2015, 10, e0141350.	2.5	30
40	Treatment of <i>Paecilomyces variotii</i> pneumonia with posaconazole: case report and literature review. <i>Mycoses</i> , 2016, 59, 746-750.	4.0	28
41	Evaluation of a Novel Multiplex High-Definition PCR Assay for Detection of Tick-Borne Pathogens in Whole-Blood Specimens. <i>Journal of Clinical Microbiology</i> , 2019, 57, .	3.9	21
42	Evaluation of a Microarray-Based Genotyping Assay for the Rapid Detection of Cytochrome P450 2C19 *2 and *3 Polymorphisms From Whole Blood Using Nanoparticle Probes. <i>American Journal of Clinical Pathology</i> , 2011, 136, 604-608.	0.7	20
43	Multicenter Clinical Evaluation of VREselect Agar for Identification of Vancomycin-Resistant <i>Enterococcus faecalis</i> and <i>Enterococcus faecium</i> . <i>Journal of Clinical Microbiology</i> , 2013, 51, 2758-2760.	3.9	20
44	Evaluation of the WASPLab Segregation Software To Automatically Analyze Urine Cultures Using Routine Blood and MacConkey Agars. <i>Journal of Clinical Microbiology</i> , 2020, 58, .	3.9	19
45	Bronchoalveolar lavage-based COVID-19 testing in patients with cancer. <i>Hematology/ Oncology and Stem Cell Therapy</i> , 2021, 14, 65-70.	0.9	19
46	Comparative Evaluation of AmpliVue HSV 1+2 Assay with ELVIS Culture for Detecting Herpes Simplex Virus 1 (HSV-1) and HSV-2 in Clinical Specimens. <i>Journal of Clinical Microbiology</i> , 2015, 53, 3922-3925.	3.9	18
47	Patient-to-Patient Transmission of <i>Klebsiella pneumoniae</i> Carbapenemase Variants with Reduced Ceftazidime-Avibactam Susceptibility. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	18
48	Evaluation of WASPLab Software To Automatically Read chromID CPS Elite Agar for Reporting of Urine Cultures. <i>Journal of Clinical Microbiology</i> , 2019, 58, .	3.9	18
49	The relevance of sink proximity to toilets on the detection of <i>Klebsiella pneumoniae</i> carbapenemase inside sink drains. <i>American Journal of Infection Control</i> , 2019, 47, 98-100.	2.3	17
50	<i>Francisella tularensis</i> Live Vaccine Strain Folate Metabolism and Pseudouridine Synthase Gene Mutants Modulate Macrophage Caspase-1 Activation. <i>Infection and Immunity</i> , 2013, 81, 201-208.	2.2	16
51	Multicenter Evaluation of the Quidel Lyra Direct C. difficile Nucleic Acid Amplification Assay. <i>Journal of Clinical Microbiology</i> , 2014, 52, 1998-2002.	3.9	16
52	Multicenter Evaluation of the Solana Group A Streptococcus Assay: Comparison with Culture. <i>Journal of Clinical Microbiology</i> , 2016, 54, 2388-2390.	3.9	15
53	Identification of Two Borderline Oxacillin-Resistant Strains of <i>Staphylococcus aureus</i> From Routine Nares Swab Specimens by One of Three Chromogenic Agars Evaluated for the Detection of MRSA. <i>American Journal of Clinical Pathology</i> , 2010, 134, 921-927.	0.7	12
54	Comparison of BD Phoenix and bioMérieux Vitek 2 automated systems for the detection of macrolide-lincosamide-streptogramin B resistance among clinical isolates of <i>Staphylococcus</i> . <i>Diagnostic Microbiology and Infectious Disease</i> , 2012, 72, 291-294.	1.8	11

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55	Clinical Evaluation of the Walk-Away Specimen Processor and ESwab for Recovery of Streptococcus agalactiae Isolates in Prenatal Screening Specimens. Journal of Clinical Microbiology, 2014, 52, 2166-2168.	3.9	11
56	Detection of Group A Streptococcus in Pharyngeal Swab Specimens by Use of the AmpliVue GAS Isothermal Helicase-Dependent Amplification Assay. Journal of Clinical Microbiology, 2015, 53, 2365-2367.	3.9	11
57	Multicenter Evaluation of MRSA Select II Chromogenic Agar for Identification of Methicillin-Resistant Staphylococcus aureus from Wound and Nasal Specimens. Journal of Clinical Microbiology, 2016, 54, 305-311.	3.9	11
58	Effectiveness of a hydrogen peroxide foam against bleach for the disinfection of sink drains. Infection Control and Hospital Epidemiology, 2019, 40, 724-726.	1.8	11
59	X-ray structure of Arabidopsis At1g77680, 12-oxophytodienoate reductase isoform 1. Proteins: Structure, Function and Bioinformatics, 2005, 61, 206-208.	2.6	9
60	Multicenter Evaluation of Meridian Bioscience HSV 1&2 Molecular Assay for Detection of Herpes Simplex Virus 1 and 2 from Clinical Cutaneous and Mucocutaneous Specimens. Journal of Clinical Microbiology, 2016, 54, 2008-2013.	3.9	8
61	Evaluation of Copan FecalSwab as Specimen Type for Use in Xpert C. difficile Assay. Journal of Clinical Microbiology, 2017, 55, 3123-3129.	3.9	8
62	Clinical Evaluation of the iCubate iC-GPC Assay for Detection of Gram-Positive Bacteria and Resistance Markers from Positive Blood Cultures. Journal of Clinical Microbiology, 2018, 56, .	3.9	8
63	A Multicenter Clinical Study To Demonstrate the Diagnostic Accuracy of the GenMark Dx ePlex Blood Culture Identification Gram-Negative Panel. Journal of Clinical Microbiology, 2021, 59, e0248420.	3.9	8
64	Clinical Evaluation and Cost Analysis of Great Basin Shiga Toxin Direct Molecular Assay for Detection of Shiga Toxin-Producing Escherichia coli in Diarrheal Stool Specimens. Journal of Clinical Microbiology, 2017, 55, 519-525.	3.9	6
65	Association Between Environmental Factors and Toxigenic Clostridioides difficile Carriage at Hospital Admission. JAMA Network Open, 2020, 3, e1919132.	5.9	6
66	Preliminary Evaluation of the Research-Use-Only (RUO) iCubate iC-GPC Assay for Identification of Select Gram-Positive Bacteria and Their Resistance Determinants in Blood Culture Broths. Journal of Clinical Microbiology, 2015, 53, 3931-3934.	3.9	5
67	Use of a cohorting-unit and systematic surveillance cultures to control a Klebsiella pneumoniae carbapenemase (KPC)-producing Enterobacteriaceae outbreak. Infection Control and Hospital Epidemiology, 2019, 40, 767-773.	1.8	5
68	Molecular Diagnosis of Pneumonia (Including Multiplex Panels). Clinical Chemistry, 2021, 68, 59-68.	3.2	5
69	Comparison of ESwab and Wound Fiber Swab Specimen Collection Devices for Use with Xpert SA Nasal Complete Assay. Journal of Clinical Microbiology, 2016, 54, 1904-1906.	3.9	4
70	Toxigenic Clostridioides difficile colonization as a risk factor for development of C. difficile infection in solid-organ transplant patients. Infection Control and Hospital Epidemiology, 2021, 42, 287-291.	1.8	4
71	Multicenter Evaluation of the Portrait Staph ID/R Blood Culture Panel for Rapid Identification of Staphylococci and Detection of the mecA Gene. Journal of Clinical Microbiology, 2017, 55, 1140-1146.	3.9	3
72	Direct detection of intact Klebsiella pneumoniae carbapenemase variants from cell lysates: Identification, characterization and clinical implications. Clinical Mass Spectrometry, 2020, 17, 12-21.	1.9	3

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73	Impact of an Antimicrobial Stewardship Program Pharmacist During Microbiology Rounds. American Journal of Clinical Pathology, 2021, 155, 455-460.	0.7	3
74	Effective utilization of C. difficile PCR and identification of clinicopathologic factors associated with conversion to a positive result in symptomatic patients. Diagnostic Microbiology and Infectious Disease, 2018, 90, 307-310.	1.8	2
75	Immediate impact of healthcare-facilityâ€œonset Clostridium difficile laboratory-identified events reporting methodology change on standardized infection ratios. Infection Control and Hospital Epidemiology, 2018, 39, 1484-1486.	1.8	2
76	How frequently should sink drains be disinfected?. Infection Control and Hospital Epidemiology, 2020, 41, 358-360.	1.8	2
77	A Multicenter Study of the Revogene C. difficile System for Detection of the Toxin B Gene from Unformed Stool Specimens. Journal of Clinical Microbiology, 2020, 58, .	3.9	2
78	Comparison of Methods for Determining the Antibiotic Susceptibility of <i>Aerococcus</i> Species in a Clinical Setting. American Journal of Clinical Pathology, 2022, 157, 781-788.	0.7	2
79	1192. Identification of a Novel Enterobacter cloacae Isolate Producing an IMP-13 Metallo-Î²-Lactamase. Open Forum Infectious Diseases, 2018, 5, S360-S361.	0.9	1
80	Avoiding the Headache: Laboratory Considerations for Implementation, Utilization, and Interpretation of Multiplex Molecular Panels for the Diagnosis of Meningitis and Encephalitis, Part I. Clinical Microbiology Newsletter, 2018, 40, 115-121.	0.7	1
81	Commentary: Can Automated Blood Culture Systems Be Both New and Improved?. Journal of Clinical Microbiology, 2022, , e0019222.	3.9	1
82	Avoiding the Headache: Laboratory Considerations for Implementation, Utilization, and Interpretation of Multiplex Molecular Panels for the Diagnosis of Meningitis and Encephalitis, Part II. Clinical Microbiology Newsletter, 2018, 40, 123-127.	0.7	0
83	Comparison of Acid-Fast Stain and Auramine Rhodamine Fluorescent Smear on Bronchoalveolar Lavage Specimens Submitted for Cytologic Examination. American Journal of Clinical Pathology, 2019, 152, S128-S128.	0.7	0
84	Improving Adherence to the HIV Testing Algorithm With Resident Physician Intervention. American Journal of Clinical Pathology, 2019, 152, S149-S150.	0.7	0
85	2339. Clostridioides difficile: Impact of Active Screening of Asymptomatic Carriers and Testing Stewardship. Open Forum Infectious Diseases, 2019, 6, S803-S804.	0.9	0
86	534. Active Screening for Carbapenemase Producing Enterobacteriaceae: Yield and Cost Considerations. Open Forum Infectious Diseases, 2019, 6, S256-S256.	0.9	0
87	1045. Impact of an Antimicrobial Stewardship Pharmacist on Microbiology Rounds. Open Forum Infectious Diseases, 2019, 6, S368-S368.	0.9	0
88	1225. How Frequently Should Sink Drains Be Disinfected?. Open Forum Infectious Diseases, 2019, 6, S440-S440.	0.9	0
89	Evaluation of a High-Definition PCR Assay for the Detection of SARS-CoV-2 in Extracted and Nonextracted Respiratory Specimens Collected in Various Transport Media. American Journal of Clinical Pathology, 2021, 156, 24-33.	0.7	0
90	Surveillance cultures following a regional outbreak of carbapenem-resistant Acinetobacter baumannii. Infection Control and Hospital Epidemiology, 2021, , 1-7.	1.8	0

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91	SARS-CoV-2 Cycle Thresholds, Poverty, Race, and Clinical Outcomes.. Wisconsin Medical Journal, 2021, 120, 301-304.	0.3	0