

Blake W Buchan

List of Publications by Year in descending order

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papers

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citations

136885

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docs citations

91
times ranked

4518
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Racial Disparities in Incidence and Outcomes Among Patients With COVID-19. JAMA Network Open, 2020, 3, e2021892. | 2.8 | 296 |
| 2 | Emerging Technologies for the Clinical Microbiology Laboratory. Clinical Microbiology Reviews, 2014, 27, 783-822. | 5.7 | 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. Journal of Clinical Microbiology, 2012, 50, 346-352. | 1.8 | 167 |
| 4 | Resistance Mechanisms, Epidemiology, and Approaches to Screening for Vancomycin-Resistant Enterococcus in the Health Care Setting. Journal of Clinical Microbiology, 2016, 54, 2436-2447. | 1.8 | 165 |
| 5 | Multicenter Evaluation of the Accelerate PhenoTest BC Kit for Rapid Identification and Phenotypic Antimicrobial Susceptibility Testing Using Morphokinetic Cellular Analysis. Journal of Clinical Microbiology, 2018, 56, . | 1.8 | 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. Journal of Clinical Microbiology, 2020, 58, . | 1.8 | 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. Journal of Clinical Microbiology, 2015, 53, 2460-2472. | 1.8 | 124 |
| 8 | Multicenter Evaluation of the BioFire FilmArray Pneumonia/Pneumonia Plus Panel for Detection and Quantification of Agents of Lower Respiratory Tract Infection. Journal of Clinical Microbiology, 2020, 58, . | 1.8 | 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. PLoS Medicine, 2013, 10, e1001478. | 3.9 | 110 |
| 10 | Protocols for production of selenomethionine-labeled proteins in 2-L polyethylene terephthalate bottles using auto-induction medium. Protein Expression and Purification, 2005, 40, 256-267. | 0.6 | 104 |
| 11 | Multiple mechanisms of NADPH oxidase inhibition by type A and type B Francisella tularensis. Journal of Leukocyte Biology, 2010, 88, 791-805. | 1.5 | 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. Journal of Clinical Microbiology, 2015, 53, 1639-1647. | 1.8 | 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. Journal of Clinical Microbiology, 2012, 50, 1008-1013. | 1.8 | 77 |
| 14 | Advances in Identification of Clinical Yeast Isolates by Use of Matrix-Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry. Journal of Clinical Microbiology, 2013, 51, 1359-1366. | 1.8 | 77 |
| 15 | Matrix-Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometry for Use with Positive Blood Cultures: Methodology, Performance, and Optimization. Journal of Clinical Microbiology, 2017, 55, 3328-3338. | 1.8 | 77 |
| 16 | Cutting Edge: Mutation of Francisella tularensis mviN Leads to Increased Macrophage Absent in Melanoma 2 Inflammasome Activation and a Loss of Virulence. Journal of Immunology, 2010, 185, 2670-2674. | 0.4 | 73 |
| 17 | Francisella tularensis Genes Required for Inhibition of the Neutrophil Respiratory Burst and Intramacrophage Growth Identified by Random Transposon Mutagenesis of Strain LVS. Infection and Immunity, 2009, 77, 1324-1336. | 1.0 | 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. American Journal of Clinical Pathology, 2014, 141, 25-34. | 0.4 | 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. | 1.0 | 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. | 1.8 | 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. | 0.4 | 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. | 1.8 | 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. | 1.8 | 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. | 1.8 | 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. | 1.8 | 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. | 1.8 | 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. | 0.4 | 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. | 1.2 | 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. | 1.8 | 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. | 1.3 | 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. | 1.8 | 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. | 1.8 | 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. | 1.8 | 35 |
| 34 | Multicenter Study Demonstrates Standardization Requirements for Mold Identification by MALDI-TOF MS. <i>Frontiers in Microbiology</i> , 2019, 10, 2098. | 1.5 | 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. | 1.4 | 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. | 0.7 | 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. | 1.8 | 32 |
| 38 | Multicenter Evaluation of the Verigene Clostridium difficile Nucleic Acid Assay. <i>Journal of Clinical Microbiology</i> , 2013, 51, 4120-4125. | 1.8 | 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. | 1.1 | 30 |
| 40 | Treatment of <i>Paecilomyces variotii</i> pneumonia with posaconazole: case report and literature review. <i>Mycoses</i> , 2016, 59, 746-750. | 1.8 | 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, . | 1.8 | 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. | 0.4 | 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. | 1.8 | 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, . | 1.8 | 19 |
| 45 | Bronchoalveolar lavage-based COVID-19 testing in patients with cancer. <i>Hematology/ Oncology and Stem Cell Therapy</i> , 2021, 14, 65-70. | 0.6 | 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. | 1.8 | 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, . | 1.4 | 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, . | 1.8 | 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. | 1.1 | 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. | 1.0 | 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. | 1.8 | 16 |
| 52 | Multicenter Evaluation of the Solana Group A Streptococcus Assay: Comparison with Culture. <i>Journal of Clinical Microbiology</i> , 2016, 54, 2388-2390. | 1.8 | 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. | 0.4 | 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. | 0.8 | 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. | 1.8 | 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. | 1.8 | 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. | 1.8 | 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. | 1.0 | 11 |
| 59 | X-ray structure of Arabidopsis At1g77680, 12-oxophytodienoate reductase isoform 1. Proteins: Structure, Function and Bioinformatics, 2005, 61, 206-208. | 1.5 | 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. | 1.8 | 8 |
| 61 | Evaluation of Copan FecalSwab as Specimen Type for Use in Xpert C. difficile Assay. Journal of Clinical Microbiology, 2017, 55, 3123-3129. | 1.8 | 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, . | 1.8 | 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. | 1.8 | 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. | 1.8 | 6 |
| 65 | Association Between Environmental Factors and Toxigenic Clostridioides difficile Carriage at Hospital Admission. JAMA Network Open, 2020, 3, e1919132. | 2.8 | 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. | 1.8 | 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. | 1.0 | 5 |
| 68 | Molecular Diagnosis of Pneumonia (Including Multiplex Panels). Clinical Chemistry, 2021, 68, 59-68. | 1.5 | 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. | 1.8 | 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. | 1.0 | 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. | 1.8 | 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. | 0.4 | 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. | 0.8 | 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. | 1.0 | 2 |
| 76 | How frequently should sink drains be disinfected?. Infection Control and Hospital Epidemiology, 2020, 41, 358-360. | 1.0 | 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, . | 1.8 | 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. | 0.4 | 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. | 0.4 | 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. | 0.4 | 1 |
| 81 | Commentary: Can Automated Blood Culture Systems Be Both New and Improved?. Journal of Clinical Microbiology, 2022, , e0019222. | 1.8 | 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. | 0.4 | 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. | 0.4 | 0 |
| 84 | Improving Adherence to the HIV Testing Algorithm With Resident Physician Intervention. American Journal of Clinical Pathology, 2019, 152, S149-S150. | 0.4 | 0 |
| 85 | 2339. Clostridioides difficile: Impact of Active Screening of Asymptomatic Carriers and Testing Stewardship. Open Forum Infectious Diseases, 2019, 6, S803-S804. | 0.4 | 0 |
| 86 | 534. Active Screening for Carbapenemase Producing Enterobacteriaceae: Yield and Cost Considerations. Open Forum Infectious Diseases, 2019, 6, S256-S256. | 0.4 | 0 |
| 87 | 1045. Impact of an Antimicrobial Stewardship Pharmacist on Microbiology Rounds. Open Forum Infectious Diseases, 2019, 6, S368-S368. | 0.4 | 0 |
| 88 | 1225. How Frequently Should Sink Drains Be Disinfected?. Open Forum Infectious Diseases, 2019, 6, S440-S440. | 0.4 | 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. | 0.4 | 0 |
| 90 | Surveillance cultures following a regional outbreak of carbapenem-resistant Acinetobacter baumannii. Infection Control and Hospital Epidemiology, 2021, , 1-7. | 1.0 | 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 |