## Barry R Lutz

List of Publications by Year in descending order

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**ΒΛΟΟΥ ΡΙΙΙΤ**Ζ

#	Article	IF	CITATIONS
1	Diagnostic Accuracy of an At-Home, Rapid Self-test for Influenza: Prospective Comparative Accuracy Study. JMIR Public Health and Surveillance, 2022, 8, e28268.	2.6	5
2	Flu@home: the Comparative Accuracy of an At-Home Influenza Rapid Diagnostic Test Using a Prepositioned Test Kit, Mobile App, Mail-in Reference Sample, and Symptom-Based Testing Trigger. Journal of Clinical Microbiology, 2022, 60, JCM0207021.	3.9	6
3	lsothermal Amplification with a Target-Mimicking Internal Control and Quantitative Lateral Flow Readout for Rapid HIV Viral Load Testing in Low-Resource Settings. Analytical Chemistry, 2022, 94, 1011-1021.	6.5	9
4	Implementation of an interactive mobile application to pilot a rapid assay to detect HIV drug resistance mutations in Kenya. PLOS Global Public Health, 2022, 2, e0000185.	1.6	1
5	Requirements and Study Designs for U.S. Regulatory Approval of Influenza Home Tests. Journal of Clinical Microbiology, 2022, 60, JCM0188421.	3.9	1
6	The impact of a rapid home test on telehealth decision-making for influenza: a clinical vignette study. , 2022, 23, 75.		2
7	Aptamer Sandwich Lateral Flow Assay (AptaFlow) for Antibody-Free SARS-CoV-2 Detection. Analytical Chemistry, 2022, 94, 7278-7285.	6.5	25
8	Multiplex Target-Redundant RT-LAMP for Robust Detection of SARS-CoV-2 Using Fluorescent Universal Displacement Probes. Microbiology Spectrum, 2022, 10, .	3.0	12
9	Urine Biomarker Assessment of Infant Adherence to Isoniazid Prophylaxis. Pediatric Infectious Disease Journal, 2021, 40, e43-e45.	2.0	3
10	Ultrasensitive hybridization capture: Reliable detection of <1 copy/mL short cell-free DNA from large-volume urine samples. PLoS ONE, 2021, 16, e0247851.	2.5	8
11	Simpler and faster Covid-19 testing: Strategies to streamline SARS-CoV-2 molecular assays. EBioMedicine, 2021, 64, 103236.	6.1	28
12	The Design and Evaluation of a Mobile System for Rapid Diagnostic Test Interpretation. , 2021, 5, 1-26.		12
13	Evaluating Specimen Quality and Results from a Community-Wide, Home-Based Respiratory Surveillance Study. Journal of Clinical Microbiology, 2021, 59, .	3.9	17
14	Viral genomes reveal patterns of the SARS-CoV-2 outbreak in Washington State. Science Translational Medicine, 2021, 13, .	12.4	58
15	Evaluating an app-guided self-test for influenza: lessons learned for improving the feasibility of study designs to evaluate self-tests for respiratory viruses. BMC Infectious Diseases, 2021, 21, 617.	2.9	3
16	Mobile Tuberculosis Treatment Support Tools to Increase Treatment Success in Patients with Tuberculosis in Argentina: Protocol for a Randomized Controlled Trial. JMIR Research Protocols, 2021, 10, e28094.	1.0	3
17	Diagnosing Pulmonary Tuberculosis by Using Sequence-Specific Purification of Urine Cell-Free DNA. Journal of Clinical Microbiology, 2021, 59, e0007421.	3.9	23
18	Characterizing the molecular composition and diagnostic potential of Mycobacterium tuberculosis urinary cell-free DNA using next-generation sequencing. International Journal of Infectious Diseases, 2021, 112, 330-337.	3.3	3

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19	Rapid Near Point-of-Care Assay for <i>HLA-B*57:01</i> Genotype Associated with Severe Hypersensitivity Reaction to Abacavir. AIDS Research and Human Retroviruses, 2021, 37, 930-935.	1.1	4
20	A Systematic Review of Clinical Prediction Rules for the Diagnosis of Influenza. Journal of the American Board of Family Medicine, 2021, 34, 1123-1140.	1.5	8
21	Harmony COVID-19: A ready-to-use kit, low-cost detector, and smartphone app for point-of-care SARS-CoV-2 RNA detection. Science Advances, 2021, 7, eabj1281.	10.3	35
22	Near point-of-care, point-mutation test to detect drug resistance in HIV-1: a validation study in a Mexican cohort. Aids, 2020, 34, 1331-1338.	2.2	14
23	The Seattle Flu Study: a multiarm community-based prospective study protocol for assessing influenza prevalence, transmission and genomic epidemiology. BMJ Open, 2020, 10, e037295.	1.9	25
24	Long-term dry storage of enzyme-based reagents for isothermal nucleic acid amplification in a porous matrix for use in point-of-care diagnostic devices. Analyst, The, 2020, 145, 6875-6886.	3.5	23
25	Cryptic transmission of SARS-CoV-2 in Washington state. Science, 2020, 370, 571-575.	12.6	217
26	Two-Fluorophore Mobile Phone Imaging of Biplexed Real-Time NAATs Overcomes Optical Artifacts in Highly Scattering Porous Media. Analytical Chemistry, 2020, 92, 13066-13072.	6.5	9
27	Early Detection of Covid-19 through a Citywide Pandemic Surveillance Platform. New England Journal of Medicine, 2020, 383, 185-187.	27.0	97
28	Diagnostic accuracy of an app-guided, self-administered test for influenza among individuals presenting to general practice with influenza-like illness: study protocol. BMJ Open, 2020, 10, e036298.	1.9	7
29	Analytical Comparison of Methods for Extraction of Short Cell-Free DNA from Urine. Journal of Molecular Diagnostics, 2019, 21, 1067-1078.	2.8	51
30	1775. A Community-wide Study to Evaluate the Accuracy of Self-testing for Influenza: Works in Progress. Open Forum Infectious Diseases, 2019, 6, S654-S654.	0.9	1
31	OLA-Simple: A software-guided HIV-1 drug resistance test for low-resource laboratories. EBioMedicine, 2019, 50, 34-44.	6.1	22
32	Technical Advances in theÂTreatment of Hydrocephalus: Current and Future State. , 2019, , 363-380.		2
33	Threshold-Based Quantification in a Multiline Lateral Flow Assay via Computationally Designed Capture Efficiency. Analytical Chemistry, 2018, 90, 6643-6650.	6.5	18
34	Frequency tuning allows flow direction control in microfluidic networks with passive features. Lab on A Chip, 2017, 17, 1552-1558.	6.0	7
35	Current Status of Point-of-Care Testing for Human Immunodeficiency Virus Drug Resistance. Journal of Infectious Diseases, 2017, 216, S824-S828.	4.0	23
36	Frequency characterization of flow magnitude and phase in resonant microfluidic circuits. Analytical Methods, 2017, 9, 5425-5432.	2.7	2

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37	Flow control using audio tones in resonant microfluidic networks: towards cell-phone controlled lab-on-a-chip devices. Lab on A Chip, 2016, 16, 3260-3267.	6.0	15
38	A rapid, instrument-free, sample-to-result nucleic acid amplification test. Lab on A Chip, 2016, 16, 3777-3787.	6.0	141
39	Comparison of point-of-care-compatible lysis methods for bacteria and viruses. Journal of Microbiological Methods, 2016, 128, 80-87.	1.6	27
40	A physical framework for implementing virtual models of intracranial pressure and cerebrospinal fluid dynamics in hydrocephalus shunt testing. Journal of Neurosurgery: Pediatrics, 2016, 18, 296-305.	1.3	3
41	A disposable chemical heater and dry enzyme preparation for lysis and extraction of DNA and RNA from microorganisms. Analytical Methods, 2016, 8, 2880-2886.	2.7	31
42	Simplified Paper Format for Detecting HIV Drug Resistance in Clinical Specimens by Oligonucleotide Ligation. PLoS ONE, 2016, 11, e0145962.	2.5	28
43	One-step purification and concentration of DNA in porous membranes for point-of-care applications. Lab on A Chip, 2015, 15, 2647-2659.	6.0	75
44	A versatile valving toolkit for automating fluidic operations in paper microfluidic devices. Lab on A Chip, 2015, 15, 1432-1444.	6.0	128
45	Isothermal strand displacement amplification (iSDA): a rapid and sensitive method of nucleic acid amplification for point-of-care diagnosis. Analyst, The, 2015, 140, 7540-7549.	3.5	73
46	Long-term dry storage of an enzyme-based reagent system for ELISA in point-of-care devices. Analyst, The, 2014, 139, 1456-1462.	3.5	120
47	Swab Sample Transfer for Point-Of-Care Diagnostics: Characterization of Swab Types and Manual Agitation Methods. PLoS ONE, 2014, 9, e105786.	2.5	38
48	Programming paper networks for point of care diagnostics. , 2013, , .		21
49	Dissolvable fluidic time delays for programming multi-step assays in instrument-free paper diagnostics. Lab on A Chip, 2013, 13, 2840.	6.0	243
50	A Rapid, Multiplexed, High-Throughput Flow-Through Membrane Immunoassay: A Convenient Alternative to ELISA. Diagnostics, 2013, 3, 244-260.	2.6	30
51	New and improved ways to treat hydrocephalus: Pursuit of a smart shunt. , 2013, 4, 38.		60
52	Progress toward multiplexed sample-to-result detection in low resource settings using microfluidic immunoassay cards. Lab on A Chip, 2012, 12, 1119.	6.0	70
53	Enhanced Sensitivity of Lateral Flow Tests Using a Two-Dimensional Paper Network Format. Analytical Chemistry, 2011, 83, 7941-7946.	6.5	196
54	Two-dimensional paper networks: programmable fluidic disconnects for multi-step processes in shaped paper. Lab on A Chip, 2011, 11, 4274.	6.0	145

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55	Transport in two-dimensional paper networks. Microfluidics and Nanofluidics, 2011, 10, 29-35.	2.2	261
56	Chemical signal amplification in two-dimensional paper networks. Sensors and Actuators B: Chemical, 2010, 149, 325-328.	7.8	172
57	Controlled reagent transport in disposable 2D paper networks. Lab on A Chip, 2010, 10, 918.	6.0	319
58	Microfluidics without pumps: reinventing the T-sensor and H-filter in paper networks. Lab on A Chip, 2010, 10, 2659.	6.0	296
59	Visualization and measurement of flow in two-dimensional paper networks. Lab on A Chip, 2010, 10, 2614.	6.0	75
60	Rapid protein depletion from complex samples using a bead-based microfluidic device for the point of care. Lab on A Chip, 2009, 9, 3543.	6.0	25
61	Spectral Analysis of Multiplex Raman Probe Signatures. ACS Nano, 2008, 2, 2306-2314.	14.6	191
62	Raman Nanoparticle Probes for Antibody-based Protein Detection in Tissues. Journal of Histochemistry and Cytochemistry, 2008, 56, 371-379.	2.5	66
63	Composite Organicâ^'Inorganic Nanoparticles as Raman Labels for Tissue Analysis. Nano Letters, 2007, 7, 351-356.	9.1	148
64	Characterizing Homogeneous Chemistry Using Well-Mixed Microeddies. Analytical Chemistry, 2006, 78, 1606-1612.	6.5	12
65	Hydrodynamic Tweezers:Â 1. Noncontact Trapping of Single Cells Using Steady Streaming Microeddies. Analytical Chemistry, 2006, 78, 5429-5435.	6.5	147
66	Microscopic steady streaming eddies created around short cylinders in a channel: Flow visualization and Stokes layer scaling. Physics of Fluids, 2005, 17, 023601.	4.0	39
67	Microfluidics without microfabrication. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4395-4398.	7.1	35
68	Synthesis and properties of Er3+-doped silica glass by sol-gel processing with organic complexation. Journal of Materials Science, 2001, 36, 985-993.	3.7	12
69	Molecularly chemisorbed intermediates to oxygen adsorption on Pt(111): A molecular beam and electron energy-loss spectroscopy study. Journal of Chemical Physics, 1999, 111, 3696-3704.	3.0	118
70	Evidence of a molecular chemisorption-mediated mechanism for high translational energy oxygen adsorption on Pt(100)-hex-R0.7°. Chemical Physics Letters, 1999, 309, 111-116.	2.6	5
71	Direct verification of a high-translational-energy molecular precursor to oxygen dissociation on Pd(111). Surface Science, 1998, 419, L107-L113.	1.9	48
72	Translational Energy Selection of Molecular Precursors to Oxygen Adsorption on Pt(111). Physical Review Letters, 1998, 81, 3179-3182.	7.8	59

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73	The Effects of Fuel Composition, System Design, and Operating Conditions on In-System Vaporization and Hot Start of a Liquid-Phase LPG Injection System. , 0, , .		29
74	Simultaneous monitoring of HIV viral load and screening of SARS- CoV-2 employing a low-cost RT-qPCR test workflow. Analyst, The, 0, , .	3.5	1