

Kevin P Nichols

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,363
citations

471509

17
h-index

580821

25
g-index

35
all docs

35
docs citations

35
times ranked

2004
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated liquid handling robot for rapid lateral flow assay development. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 2607-2618.	3.7	9
2	Characterization of oral swab samples for diagnosis of pulmonary tuberculosis. <i>PLoS ONE</i> , 2021, 16, e0251422.	2.5	31
3	Screening Antibodies Raised against the Spike Glycoprotein of SARS-CoV-2 to Support the Development of Rapid Antigen Assays. <i>ACS Omega</i> , 2021, 6, 20139-20148.	3.5	8
4	Clinical validation of an open-access SARS-COV-2 antigen detection lateral flow assay, compared to commercially available assays. <i>PLoS ONE</i> , 2021, 16, e0256352.	2.5	14
5	Antibody Screening Results for Anti-Nucleocapsid Antibodies Toward the Development of a Lateral Flow Assay to Detect SARS-CoV-2 Nucleocapsid Protein. <i>ACS Omega</i> , 2021, 6, 25116-25123.	3.5	15
6	A SARS-CoV-2 coronavirus nucleocapsid protein antigen-detecting lateral flow assay. <i>PLoS ONE</i> , 2021, 16, e0258819.	2.5	19
7	SARS-CoV-2 Coronavirus Nucleocapsid Antigen-Detecting Half-Strip Lateral Flow Assay Toward the Development of Point of Care Tests Using Commercially Available Reagents. <i>Analytical Chemistry</i> , 2020, 92, 11305-11309.	6.5	272
8	Wash-Free, Digital Immunoassay in Polydisperse Droplets. <i>Analytical Chemistry</i> , 2020, 92, 3535-3543.	6.5	31
9	Development of a simplified reader for digital droplet assays performed in limited resource settings. , 2019, , .		1
10	General methods for quantitative interpretation of results of digital variable-volume assays. <i>Analyst, The</i> , 2019, 144, 7209-7219.	3.5	7
11	Threshold-Based Quantification in a Multiline Lateral Flow Assay via Computationally Designed Capture Efficiency. <i>Analytical Chemistry</i> , 2018, 90, 6643-6650.	6.5	18
12	Polydisperse emulsion digital assay to enhance time to detection and extend dynamic range in bacterial cultures enabled by a statistical framework. <i>Analyst, The</i> , 2018, 143, 2828-2836.	3.5	15
13	Simple Polydisperse Droplet Emulsion Polymerase Chain Reaction with Statistical Volumetric Correction Compared with Microfluidic Droplet Digital Polymerase Chain Reaction. <i>Analytical Chemistry</i> , 2018, 90, 9374-9380.	6.5	36
14	Rapid concentration and elution of malarial antigen histidine-rich protein II using solid phase Zn(II) resin in a simple flow-through pipette tip format. <i>Biomicrofluidics</i> , 2017, 11, 034115.	2.4	8
15	A paper microfluidic cartridge for automated staining of malaria parasites with an optically transparent microscopy window. <i>Lab on A Chip</i> , 2014, 14, 2040-2046.	6.0	23
16	Chemical Analog-to-Digital Signal Conversion Based on Robust Threshold Chemistry and Its Evaluation in the Context of Microfluidics-Based Quantitative Assays. <i>Journal of the American Chemical Society</i> , 2013, 135, 14775-14783.	13.7	20
17	Toward Mechanistic Understanding of Nuclear Reprocessing Chemistries by Quantifying Lanthanide Solvent Extraction Kinetics via Microfluidics with Constant Interfacial Area and Rapid Mixing. <i>Journal of the American Chemical Society</i> , 2011, 133, 15721-15729.	13.7	99
18	Dead-End Filling of SlipChip Evaluated Theoretically and Experimentally as a Function of the Surface Chemistry and the Gap Size between the Plates for Lubricated and Dry SlipChips. <i>Langmuir</i> , 2010, 26, 12465-12471.	3.5	22

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19	SlipChip for Immunoassays in Nanoliter Volumes. <i>Analytical Chemistry</i> , 2010, 82, 3276-3282.	6.5	94
20	Design of a stable steam reforming catalystâ€”A promising route to sustainable hydrogen from biomass oxygenates. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 38-44.	20.2	72
21	SlipChip. <i>Lab on A Chip</i> , 2009, 9, 2286.	6.0	314
22	Electrowetting-Based Microdrop Tensiometer. <i>Langmuir</i> , 2008, 24, 10549-10551.	3.5	67
23	Nanochannels in SU-8 with floor and ceiling metal electrodes and integrated microchannels. <i>Lab on A Chip</i> , 2008, 8, 173-175.	6.0	28
24	Enzyme Kinetics by Directly Imaging a Porous Silicon Microfluidic Reactor Using Desorption/Ionization on Silicon Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 8314-8319.	6.5	33
25	A Digital Microfluidic System for the Investigation of Pre-Steady-State Enzyme Kinetics Using Rapid Quenching with MALDI-TOF Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 8699-8704.	6.5	69
26	Recirculating, passive micromixer with a novel sawtooth structure. <i>Lab on A Chip</i> , 2006, 6, 242-246.	6.0	24