Jonathan D Posner

List of Publications by Year
in descending order

46 papers	2,456 citations	270111 25 h-index	312153 41 g-index
56 all docs	56 docs citations	56 times ranked	4161 citing authors

#	Article	IF	Citations
1	<scp>REverSe TRanscRIptase</scp> chain termination (<scp>RESTRICT</scp>) for selective measurement of nucleotide analogs used in <scp>HIV</scp> care and prevention. Bioengineering and Translational Medicine, 2023, 8, .	3.9	0
2	HIV pre-exposure prophylaxis adherence test using reverse transcription isothermal amplification inhibition assay. Analytical Methods, 2022, 14, 1361-1370.	1.3	0
3	Quantitative isothermal amplification on paper membranes using amplification nucleation site analysis. Lab on A Chip, 2022, 22, 2352-2363.	3.1	7
4	Nucleic acid sample preparation from whole blood in a paper microfluidic device using isotachophoresis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1163, 122494.	1.2	32
5	Current state of commercial point-of-care nucleic acid tests for infectious diseases. Analyst, The, 2021, 146, 2449-2462.	1.7	13
6	HIV detection from human serum with paper-based isotachophoretic RNA extraction and reverse transcription recombinase polymerase amplification. Analyst, The, 2021, 146, 2851-2861.	1.7	18
7	Chemokinesis-driven accumulation of active colloids in low-mobility regions of fuel gradients. Scientific Reports, 2021, 11, 4785.	1.6	5
8	16506 Recognizing Interdisciplinary Collaborative Research in Promotion and Tenure Processes. Journal of Clinical and Translational Science, 2021, 5, 110-110.	0.3	0
9	Pilot evaluation of an enzymatic assay for rapid measurement of antiretroviral drug concentrations. Virology Journal, 2021, 18, 77.	1.4	5
10	Source apportionment of environmental combustion sources using excitation emission matrix fluorescence spectroscopy and machine learning. Atmospheric Environment, 2021, 259, 118501.	1.9	6
11	Implementation and evaluation of team science training for interdisciplinary teams in an engineering design program. Journal of Clinical and Translational Science, 2021, 5, e127.	0.3	4
12	Excitation emission matrix fluorescence spectroscopy for combustion generated particulate matter source identification. Atmospheric Environment, 2020, 220, 117065.	1.9	14
13	Excitationâ€“Emission Matrix Spectroscopy for Analysis of Chemical Composition of Combustion Generated Particulate Matter. Environmental Science & Technology, 2020, 54, 8198-8209.	4.6	27
14	Enzymatic Assay for Rapid Measurement of Antiretroviral Drug Levels. ACS Sensors, 2020, 5, 952-959.	4.0	4
15	Enzymatic and Chemical-Based Methods to Inactivate Endogenous Blood Ribonucleases for Nucleic Acid Diagnostics. Journal of Molecular Diagnostics, 2020, 22, 1030-1040.	1.2	15
16	Point-of-Care HIV Viral Load Testing: an Essential Tool for a Sustainable Global HIV/AIDS Response. Clinical Microbiology Reviews, 2019, 32, .	5.7	68
17	Measuring Dynamic Shear Force and Vibration With a Bioinspired Tactile Sensor Skin. IEEE Sensors Journal, 2018, 18, 3544-3553.	2.4	28
18	Semiquantitative Nucleic Acid Test with Simultaneous Isotachophoretic Extraction and Amplification. Analytical Chemistry, 2018, 90, 7221-7229.	3.2	38

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19	Time-Resolved Particulate Emissions Monitoring of Cookstove Biomass Combustion Using a Tapered Element Oscillating Microbalance. Combustion Science and Technology, 2017, 189, 923-936.	1.2	14
20	Bioinspired flexible microfluidic shear force sensor skin. Sensors and Actuators A: Physical, 2017, 264, 289-297.	2.0	62
21	Phoretic Self-Propulsion. Annual Review of Fluid Mechanics, 2017, 49, 511-540.	10.8	265
22	A method for high-throughput functional imaging of single cells within heterogeneous cell preparations. Scientific Reports, 2016, 6, 39319.	1.6	6
23	Point-of-care HIV-1 diagnostic with integrated nucleic acid extraction and amplification from whole blood. , 2016, , .		3
24	The pulmonary inflammatory response to multiwalled carbon nanotubes is influenced by gender and glutathione synthesis. Redox Biology, 2016, 9, 264-275.	3.9	12
25	Translating diagnostic assays from the laboratory to the clinic: analytical and clinical metrics for device development and evaluation. Lab on A Chip, 2016, 16, 1293-1313.	3.1	34
26	Shape-Dependent Surface Reactivity and Antimicrobial Activity of Nano-Cupric Oxide. Environmental Science & Technology, 2016, 50, 3975-3984.	4.6	96
27	Two Orders of Magnitude Improvement in Detection Limit of Lateral Flow Assays Using Isotachophoresis. Analytical Chemistry, 2015, 87, 1009-1017.	3.2	119
28	NAIL: Nucleic Acid detection using Isotachophoresis and Loop-mediated isothermal amplification. Lab on A Chip, 2015, 15, 1697-1707.	3.1	42
29	Colorimetric Detection of Catalytic Reactivity of Nanoparticles in Complex Matrices. Environmental Science & Technology, 2015, 49, 3611-3618.	4.6	41
30	Role of solution conductivity in reaction induced charge auto-electrophoresis. Physics of Fluids, 2014, 26, .	1.6	53
31	Isotachophoretic Preconcenetration on Paper-Based Microfluidic Devices. Analytical Chemistry, 2014, 86, 5829-5837.	3.2	112
32	Disruption of model cell membranes by carbon nanotubes. Carbon, 2013, 60, 67-75.	5.4	92
33	Reply to Comment on â€œPartition Coefficient Measurements in Picoliter Drops Using a Segmented Flow Microfluidic Deviceâ€• Analytical Chemistry, 2013, 85, 10623-10624.	3.2	0
34	Improved accuracy of time-resolved micro-Particle Image Velocimetry using phase-correlation and confocal microscopy. Microfluidics and Nanofluidics, 2013, 14, 431-444.	1.0	15
35	Simple replica micromolding of biocompatible styrenic elastomers. Lab on A Chip, 2013, 13, 2773.	3.1	54
36	Simple, Low-Cost Styrene-Ethylene/Butylene-Styrene Microdevices for Electrokinetic Applications. Analytical Chemistry, 2013, 85, 11700-11704.	3.2	18

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37	Diffusive behaviors of circle-swimming motors. Physical Review E, 2013, 87, 052305.	0.8	23
38	Electric fields yield chaos in microflows. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14353-14356.	3.3	49
39	Distribution of Functionalized Gold Nanoparticles between Water and Lipid Bilayers as Model Cell Membranes. Environmental Science & Technology, 2012, 46, 1869-1876.	4.6	73
40	Role of Nanoparticle Surface Functionality in the Disruption of Model Cell Membranes. Langmuir, 2012, 28, 16318-16326.	1.6	135
41	Flexible microfluidic normal force sensor skin for tactile feedback. Sensors and Actuators A: Physical, 2012, 179, 62-69.	2.0	231
42	Octanol-water distribution of engineered nanomaterials. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 636-647.	0.9	45
43	Distribution of Fullerene Nanomaterials between Water and Model Biological Membranes. Langmuir, 2011, 27, 11899-11905.	1.6	49
44	Electrokinetic locomotion due to reaction-induced charge auto-electrophoresis. Journal of Fluid Mechanics, 2011, 680, 31-66.	1.4	125
45	Rapid Fabrication of Bimetallic Spherical Motors. Langmuir, 2010, 26, 13052-13055.	1.6	110
46	Synthetic Nanomotors in Microchannel Networks: Directional Microchip Motion and Controlled Manipulation of Cargo. Journal of the American Chemical Society, 2008, 130, 8164-8165.	6.6	289