

Alar Ainla

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1901777/publications.pdf>

Version: 2024-02-01

40
papers

2,750
citations

361413

20
h-index

345221

36
g-index

42
all docs

42
docs citations

42
times ranked

4148
citing authors

#	ARTICLE	IF	CITATIONS
1	Paper-Based Electrical Respiration Sensor. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5727-5732.	13.8	350
2	A soft, bistable valve for autonomous control of soft actuators. <i>Science Robotics</i> , 2018, 3, .	17.6	316
3	Open-Source Potentiostat for Wireless Electrochemical Detection with Smartphones. <i>Analytical Chemistry</i> , 2018, 90, 6240-6246.	6.5	260
4	Buckling of Elastomeric Beams Enables Actuation of Soft Machines. <i>Advanced Materials</i> , 2015, 27, 6323-6327.	21.0	244
5	Autocatalytic, bistable, oscillatory networks of biologically relevant organic reactions. <i>Nature</i> , 2016, 537, 656-660.	27.8	243
6	Integrating Electronics and Microfluidics on Paper. <i>Advanced Materials</i> , 2016, 28, 5054-5063.	21.0	216
7	A Paper-Based "Pop-up" Electrochemical Device for Analysis of Beta-Hydroxybutyrate. <i>Analytical Chemistry</i> , 2016, 88, 6326-6333.	6.5	140
8	A Soft Tube-Climbing Robot. <i>Soft Robotics</i> , 2018, 5, 133-137.	8.0	97
9	A Microfluidic Pipette for Single-Cell Pharmacology. <i>Analytical Chemistry</i> , 2010, 82, 4529-4536.	6.5	92
10	A multifunctional pipette. <i>Lab on A Chip</i> , 2012, 12, 1255.	6.0	89
11	Nafion®-polybenzimidazole (PBI) composite membranes for DMFC applications. <i>Solid State Ionics</i> , 2007, 178, 581-585.	2.7	84
12	Soft, Rotating Pneumatic Actuator. <i>Soft Robotics</i> , 2017, 4, 297-304.	8.0	70
13	ArthroBots. <i>Soft Robotics</i> , 2017, 4, 183-190.	8.0	65
14	Ion sensing with thread-based potentiometric electrodes. <i>Lab on A Chip</i> , 2018, 18, 2279-2290.	6.0	61
15	Electrical Textile Valves for Paper Microfluidics. <i>Advanced Materials</i> , 2017, 29, 1702894.	21.0	60
16	Electroanalytical devices with pins and thread. <i>Lab on A Chip</i> , 2016, 16, 112-119.	6.0	52
17	Paper-Based Electrical Respiration Sensor. <i>Angewandte Chemie</i> , 2016, 128, 5821-5826.	2.0	38
18	Fabricating 3D Structures by Combining 2D Printing and Relaxation of Strain. <i>Advanced Materials Technologies</i> , 2019, 4, 1800299.	5.8	36

#	ARTICLE	IF	CITATIONS
19	A Microfluidic Diluter Based on Pulse Width Flow Modulation. <i>Analytical Chemistry</i> , 2009, 81, 5549-5556.	6.5	30
20	Lab on a Biomembrane: Rapid prototyping and manipulation of 2D fluidic lipid bilayer circuits. <i>Scientific Reports</i> , 2013, 3, 2743.	3.3	24
21	Single-cell electroporation using a multifunctional pipette. <i>Lab on A Chip</i> , 2012, 12, 4605.	6.0	22
22	Subcompartmentalization and Pseudo-€Division of Model Protocells. <i>Small</i> , 2021, 17, e2005320.	10.0	20
23	Hydrodynamic Flow Confinement Technology in Microfluidic Perfusion Devices. <i>Micromachines</i> , 2012, 3, 442-461.	2.9	19
24	Electrochemical Sensing in 3D Cell Culture Models: New Tools for Developing Better Cancer Diagnostics and Treatments. <i>Cancers</i> , 2021, 13, 1381.	3.7	18
25	An Optofluidic Temperature Probe. <i>Sensors</i> , 2013, 13, 4289-4302.	3.8	17
26	A multifunctional pipette for localized drug administration to brain slices. <i>Journal of Neuroscience Methods</i> , 2013, 219, 292-296.	2.5	12
27	Thermal migration of molecular lipid films as a contactless fabrication strategy for lipid nanotube networks. <i>Lab on A Chip</i> , 2013, 13, 3822.	6.0	12
28	SU-8 free-standing microfluidic probes. <i>Biomicrofluidics</i> , 2017, 11, 014112.	2.4	11
29	Molecular Lipid Films on Microengineering Materials. <i>Langmuir</i> , 2019, 35, 10286-10298.	3.5	11
30	A Heating-Superfusion Platform Technology for the Investigation of Protein Function in Single Cells. <i>Analytical Chemistry</i> , 2015, 87, 381-387.	6.5	9
31	Nanopatterning of Mobile Lipid Monolayers on Electron-Beam-Sculpted Teflon AF Surfaces. <i>ACS Nano</i> , 2015, 9, 1271-1279.	14.6	9
32	Spatial characterization of a multifunctional pipette for drug delivery in hippocampal brain slices. <i>Journal of Neuroscience Methods</i> , 2015, 241, 132-136.	2.5	5
33	Four-€Variable Model of an Enzymatic Oscillator Based on Trypsin. <i>Israel Journal of Chemistry</i> , 2018, 58, 781-786.	2.3	5
34	A Multifunctional Pipette for Localized Drug Administration to Brain Slices. <i>Biophysical Journal</i> , 2014, 106, 191a.	0.5	4
35	Molecular dynamics simulations of Li- and Na-Nafion membranes. , 2006, 6168, 118.		1
36	Lab on a Biomembrane. <i>Biophysical Journal</i> , 2014, 106, 209a.	0.5	1

#	ARTICLE	IF	CITATIONS
37	Enhanced virtual reality application with tactile feedback for prototyping in-car dashboard surfaces. , 2021, , .		1
38	A Pulse Width Modulated Microfluidic Diluter. Biophysical Journal, 2009, 96, 49a.	0.5	0
39	Spontaneous Compartmentalization in Adherent Artificial Cells. Biophysical Journal, 2020, 118, 82a.	0.5	0
40	Hydrodynamically Confined Flow Devices. , 0, , .		0