

Samuel K Sia

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

8,500
citations

126858

33
h-index

106281

65
g-index

75
all docs

75
docs citations

75
times ranked

11143
citing authors

#	ARTICLE	IF	CITATIONS
1	Acceptability and Use of a Dual HIV/Syphilis Rapid Test and Accompanying Smartphone App to Facilitate Self- and Partner-Testing Among Cisgender Men and Transgender Women Who Have Sex with Men. <i>AIDS and Behavior</i> , 2022, 26, 35-46.	1.4	13
2	Rapid video-based deep learning of cognate versus non-cognate T cell-dendritic cell interactions. <i>Scientific Reports</i> , 2022, 12, 559.	1.6	3
3	Ultrasoundâ€Responsive Aqueous Twoâ€Phase Microcapsules for Onâ€Demand Drug Release. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
4	Ultrasoundâ€Responsive Aqueous Twoâ€Phase Microcapsules for Onâ€Demand Drug Release. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	14
5	Point-of-care diagnostics: recent developments in a pandemic age. <i>Lab on A Chip</i> , 2021, 21, 4517-4548.	3.1	34
6	SMARTtest: A Smartphone App to Facilitate HIV and Syphilis Self- and Partner-Testing, Interpretation of Results, and Linkage to Care. <i>AIDS and Behavior</i> , 2020, 24, 1560-1573.	1.4	33
7	Biosensors for Personal Mobile Health: A System Architecture Perspective. <i>Advanced Materials Technologies</i> , 2020, 5, 1900720.	3.0	18
8	Rule Out Acute Kidney Injury in the Emergency Department With a Urinary Dipstick. <i>Kidney International Reports</i> , 2020, 5, 1982-1992.	0.4	9
9	Injectable Therapeutic Organoids Using Sacrificial Hydrogels. <i>IScience</i> , 2020, 23, 101052.	1.9	19
10	Soft medical microrobots: Design components and system integration. <i>Applied Physics Reviews</i> , 2019, 6, 041305.	5.5	40
11	A Multiplexed Serologic Test for Diagnosis of Lyme Disease for Point-of-Care Use. <i>Journal of Clinical Microbiology</i> , 2019, 57, .	1.8	27
12	Integrating user behavior with engineering design of point-of-care diagnostic devices: theoretical framework and empirical findings. <i>Lab on A Chip</i> , 2019, 19, 2241-2255.	3.1	21
13	Hydrogel Microfilaments toward Intradermal Health Monitoring. <i>IScience</i> , 2019, 21, 328-340.	1.9	12
14	Evolution of Materials in Novel Point-of-Care Diagnostics. <i>Clinical Chemistry</i> , 2018, 64, 1125-1126.	1.5	2
15	An Additive Manufacturing Technique for the Facile and Rapid Fabrication of Hydrogel-based Micromachines with Magnetically Responsive Components. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	8
16	A direct tissue-grafting approach to increasing endogenous brown fat. <i>Scientific Reports</i> , 2018, 8, 7957.	1.6	22
17	Bringing Real-Time Geospatial Precision to HIV Surveillance Through Smartphones: Feasibility Study. <i>JMIR Public Health and Surveillance</i> , 2018, 4, e11203.	1.2	7
18	Additive manufacturing of hydrogel-based materials for next-generation implantable medical devices. <i>Science Robotics</i> , 2017, 2, .	9.9	131

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19	Point-of-Care Diagnostics: Recent Developments in a Connected Age. <i>Analytical Chemistry</i> , 2017, 89, 102-123.	3.2	386
20	Human Skin Constructs with Spatially Controlled Vasculature Using Primary and iPSC-Derived Endothelial Cells. <i>Advanced Healthcare Materials</i> , 2016, 5, 1800-1807.	3.9	185
21	Personalized Disease Models on a Chip. <i>Cell Systems</i> , 2016, 3, 416-418.	2.9	7
22	Point-of-Care Technologies for Precision Cardiovascular Care and Clinical Research. <i>JACC Basic To Translational Science</i> , 2016, 1, 73-86.	1.9	42
23	An implantable compound-releasing capsule triggered on demand by ultrasound. <i>Scientific Reports</i> , 2016, 6, 22803.	1.6	31
24	Microfluidics-based point-of-care test for serodiagnosis of Lyme Disease. <i>Scientific Reports</i> , 2016, 6, 35069.	1.6	51
25	Toward a Microfluidics-Based Home Male Fertility Test. <i>Clinical Chemistry</i> , 2016, 62, 421-422.	1.5	5
26	Improving Present and Future Patient Care. <i>Point of Care</i> , 2015, 14, 124-126.	0.5	2
27	Share and share alike. <i>Nature Biotechnology</i> , 2015, 33, 1224-1228.	9.4	13
28	Smartphone dongle for simultaneous measurement of hemoglobin concentration and detection of HIV antibodies. <i>Lab on A Chip</i> , 2015, 15, 3514-3520.	3.1	77
29	A smartphone dongle for diagnosis of infectious diseases at the point of care. <i>Science Translational Medicine</i> , 2015, 7, 273re1.	5.8	370
30	On the Path from Materials Chemistry to Clinical Use. <i>Clinical Chemistry</i> , 2014, 60, 573-574.	1.5	0
31	Challenges and promises in modeling dermatologic disorders with bioengineered skin. <i>Experimental Biology and Medicine</i> , 2014, 239, 1215-1224.	1.1	16
32	Microfluidics for Engineering 3D Tissues and Cellular Microenvironments. , 2013, , 53-79.		1
33	Competitive stem cell recruitment by multiple cytotactic cues. <i>Lab on A Chip</i> , 2013, 13, 1156.	3.1	13
34	Mobile Device for Disease Diagnosis and Data Tracking in Resource-Limited Settings. <i>Clinical Chemistry</i> , 2013, 59, 629-640.	1.5	70
35	Assembly of complex cell microenvironments using geometrically docked hydrogel shapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4551-4556.	3.3	76
36	Point-of-Care Microdevices for Global Health Diagnostics of Infectious Diseases. , 2013, , 115-133.		0

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37	Commercialization of microfluidic point-of-care diagnostic devices. <i>Lab on A Chip</i> , 2012, 12, 2118.	3.1	1,105
38	Sweet solution to sensing. <i>Nature Chemistry</i> , 2011, 3, 659-660.	6.6	4
39	Engineering extracellular matrix structure in 3D multiphase tissues. <i>Biomaterials</i> , 2011, 32, 8067-8076.	5.7	67
40	Microfluidics-based diagnostics of infectious diseases in the developing world. <i>Nature Medicine</i> , 2011, 17, 1015-1019.	15.2	654
41	Uncovering the behaviors of individual cells within a multicellular microvascular community. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5133-5138.	3.3	23
42	Dynamic Hydrogels: Switching of 3D Microenvironments Using Two-Component Naturally Derived Extracellular Matrices. <i>Advanced Materials</i> , 2010, 22, 686-691.	11.1	148
43	Strongly Binding Cell-Adhesive Polypeptides of Programmable Valencies. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1971-1975.	7.2	16
44	Reversible switching of 3D microenvironments in extracellular matrices and effects on collagen fibers and cell morphology. , 2010, , .		0
45	Actuation of elastomeric microvalves in point-of-care settings using handheld, battery-powered instrumentation. <i>Lab on A Chip</i> , 2010, 10, 1618.	3.1	40
46	Microfluidic CD4+ T-Cell Counting Device Using Chemiluminescence-Based Detection. <i>Analytical Chemistry</i> , 2010, 82, 36-40.	3.2	80
47	Patterning micro-stiffness in cell-adhesive substrate using microfluidics-based lithography. , 2010, , .		2
48	Microscale Control of Stiffness in a Cell-Adhesive Substrate Using Microfluidics-Based Lithography. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7188-7192.	7.2	55
49	Cover Picture: Microscale Control of Stiffness in a Cell-Adhesive Substrate Using Microfluidics-Based Lithography (<i>Angew. Chem. Int. Ed.</i> 39/2009). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7103-7103.	7.2	0
50	Cutting edge: Thin, lightweight, foldable thermochromic displays on paper. <i>Lab on A Chip</i> , 2009, 9, 2763.	3.1	7
51	A microfabricated porous collagen-based scaffold as prototype for skin substitutes. <i>Biomedical Microdevices</i> , 2008, 10, 459-467.	1.4	34
52	In situ collagen assembly for integrating microfabricated three-dimensional cell-seeded matrices. <i>Nature Materials</i> , 2008, 7, 636-640.	13.3	214
53	Microfluidics and point-of-care testing. <i>Lab on A Chip</i> , 2008, 8, 1982.	3.1	237
54	Effect of volume- and time-based constraints on capture of analytes in microfluidic heterogeneous immunoassays. <i>Lab on A Chip</i> , 2008, 8, 2062.	3.1	88

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55	Real-Time Microfluidic System for Studying Mammalian Cells in 3D Microenvironments. <i>Analytical Chemistry</i> , 2008, 80, 3640-3647.	3.2	93
56	Direct patterning of composite biocompatible microstructures using microfluidics. <i>Lab on A Chip</i> , 2007, 7, 574.	3.1	64
57	Synthetic tissue biology: Tissue engineering meets synthetic biology. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2007, 81, 354-361.	3.6	18
58	Lab-on-a-chip devices for global health: Past studies and future opportunities. <i>Lab on A Chip</i> , 2007, 7, 41-57.	3.1	700
59	Mixing with bubbles: a practical technology for use with portable microfluidic devices. <i>Lab on A Chip</i> , 2006, 6, 207-212.	3.1	129
60	Space- and time-resolved spectrophotometry in microsystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10035-10039.	3.3	16
61	Reagent-Loaded Cartridges for Valveless and Automated Fluid Delivery in Microfluidic Devices. <i>Analytical Chemistry</i> , 2005, 77, 64-71.	3.2	155
62	Torque-Actuated Valves for Microfluidics. <i>Analytical Chemistry</i> , 2005, 77, 4726-4733.	3.2	183
63	An Integrated Approach to a Portable and Low-Cost Immunoassay for Resource-Poor Settings. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 498-502.	7.2	267
64	Patterning Multiple Aligned Self-Assembled Monolayers Using Light. <i>Langmuir</i> , 2004, 20, 9080-9088.	1.6	146
65	Microfluidic devices fabricated in Poly(dimethylsiloxane) for biological studies. <i>Electrophoresis</i> , 2003, 24, 3563-3576.	1.3	1,532
66	Protein grafting of an HIV-1-inhibiting epitope. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9756-9761.	3.3	63
67	Short constrained peptides that inhibit HIV-1 entry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14664-14669.	3.3	192
68	Structure of Cardiac Muscle Troponin C Unexpectedly Reveals a Closed Regulatory Domain. <i>Journal of Biological Chemistry</i> , 1997, 272, 18216-18221.	1.6	181
69	Refined X-ray crystallographic structure of the poliovirus 3C gene product 1 1Edited By D. Rees. <i>Journal of Molecular Biology</i> , 1997, 273, 1032-1047.	2.0	181
70	Solid-phase fluorescent labeling reaction of picomole amounts of insulin in very dilute solutions and their analysis by capillary electrophoresis. <i>Electrophoresis</i> , 1995, 16, 534-540.	1.3	33