

Nicolas Moser

List of Publications by Year in descending order

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42
papers

902
citations

759233

12
h-index

888059

17
g-index

44
all docs

44
docs citations

44
times ranked

788
citing authors

#	ARTICLE	IF	CITATIONS
1	Lab-on-chip assay of tumour markers and human papilloma virus for cervical cancer detection at the point-of-care. <i>Scientific Reports</i> , 2022, 12, .	3.3	11
2	A LoC Ion Imaging Platform for Spatio-Temporal Characterisation of Ion-Selective Membranes. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2022, 16, 545-556.	4.0	2
3	ProtonDx: Accurate, Rapid and Lab-Free Detection of SARS-CoV-2 and Other Respiratory Pathogens [Society News]. <i>IEEE Circuits and Systems Magazine</i> , 2021, 21, 84-88.	2.3	0
4	CMOS ISFET Arrays for Integrated Electrochemical Sensing and Imaging Applications: A Tutorial. <i>IEEE Sensors Journal</i> , 2021, 21, 22155-22169.	4.7	13
5	A Dual-Sensing CMOS Array for Combined Impedance-pH Detection of DNA with Integrated Electric Field Manipulation. , 2021, , .		3
6	Detection of Multiple Breast Cancer <i>ESR1</i> Mutations on an ISFET Based Lab-on-Chip Platform. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021, 15, 380-389.	4.0	29
7	Handheld Point-of-Care System for Rapid Detection of SARS-CoV-2 Extracted RNA in under 20 min. <i>ACS Central Science</i> , 2021, 7, 307-317.	11.3	106
8	Loop-Mediated Isothermal Amplification Assay for Detecting Tumor Markers and Human Papillomavirus: Accuracy and Supplemental Diagnostic Value to Endovaginal MRI in Cervical Cancer. <i>Frontiers in Oncology</i> , 2021, 11, 747614.	2.8	3
9	Multiple Ion-channel ISFET Neuron for Lab-on-chip applications. , 2021, , .		5
10	Detection of MGMT methylation status using a Lab-on-Chip compatible isothermal amplification method. , 2021, 2021, 7385-7389.		1
11	Detection of Breast Cancer <i>ESR1</i> p.E380Q Mutation on an ISFET Lab-on-Chip Platform. , 2020, , .		9
12	A Combined ISFET-Electric Field Actuation System for Enhanced Detection of DNA: A Proof-of-Concept. , 2020, , .		1
13	ISFET-Based Sensing and Electric Field Actuation of DNA for On-Chip Detection: A Review. <i>IEEE Sensors Journal</i> , 2020, 20, 11044-11065.	4.7	36
14	Amplification Curve Analysis: Data-Driven Multiplexing Using Real-Time Digital PCR. <i>Analytical Chemistry</i> , 2020, 92, 13134-13143.	6.5	35
15	Rapid Detection of Azole-Resistant <i>Aspergillus fumigatus</i> in Clinical and Environmental Isolates by Use of a Lab-on-a-Chip Diagnostic System. <i>Journal of Clinical Microbiology</i> , 2020, 58, , .	3.9	18
16	A Cluster-Based Neuromorphic ISFET Architecture with Integrated Calibration. , 2020, , .		4
17	An ISFET Array for Ion Multiplexing with an Integrated Sensor Learning Algorithm. , 2020, , .		5
18	A Multi-Sensing Pixel for Integrated Opto-Chemical Sensing with Temperature Compensation. , 2020, , .		2

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19	Complementary Metal-Oxide-Semiconductor Potentiometric Field-Effect Transistor Array Platform Using Sensor Learning for Multi-ion Imaging. <i>Analytical Chemistry</i> , 2020, 92, 5276-5285.	6.5	34
20	Rapid Detection of Mobilized Colistin Resistance using a Nucleic Acid Based Lab-on-a-Chip Diagnostic System. <i>Scientific Reports</i> , 2020, 10, 8448.	3.3	33
21	Programmable Ion-Sensing Using Oscillator-Based ISFET Architectures. <i>IEEE Sensors Journal</i> , 2019, 19, 8563-8575.	4.7	8
22	Quantitative and rapid <i>Plasmodium falciparum</i> malaria diagnosis and artemisinin-resistance detection using a CMOS Lab-on-Chip platform. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111678.	10.1	74
23	Mechanisms for enhancement of sensing performance in CMOS ISFET arrays using reactive ion etching. <i>Sensors and Actuators B: Chemical</i> , 2019, 292, 297-307.	7.8	17
24	A Neuron-Based ISFET Array Architecture with Spatial Sensor Compensation. , 2019, , .		5
25	ISFET Arrays for Lab-on-Chip Technology: A Review. , 2019, , .		13
26	Live Demonstration : A Portable Multi-Ion Platform with Integrated Microfluidics. , 2019, , .		0
27	Rapid detection of <i>Klebsiella pneumoniae</i> using an auto-calibrated ISFET-array Lab-on-Chip platform. , 2019, , .		2
28	A Scalable ISFET Sensing and Memory Array With Sensor Auto-Calibration for On-Chip Real-Time DNA Detection. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 390-401.	4.0	101
29	An ISFET Pixel with Integrated Trapped Charge Compensation using Temperature Feedback. , 2018, , .		5
30	A CMOS Bio-Chip combining pH Sensing, Temperature Regulation and Electric Field Generation for DNA Detection and Manipulation. , 2018, , .		10
31	Live Demonstration: A Mobile Diagnostic System for Rapid Detection and Tracking of Infectious Diseases. , 2018, , .		12
32	A 32 \times 32 ISFET Chemical Sensing Array With Integrated Trapped Charge and Gain Compensation. <i>IEEE Sensors Journal</i> , 2017, 17, 5276-5284.	4.7	47
33	Improving the pH sensitivity of ISFET arrays with reactive ion etching. , 2017, , .		1
34	Live demonstration: Real-time chemical imaging of ionic solutions using an ISFET array. , 2017, , .		1
35	Live demonstration: A CMOS-based ISFET array for rapid diagnosis of the Zika virus. , 2017, , .		12
36	ISFETs in CMOS and Emergent Trends in Instrumentation: A Review. <i>IEEE Sensors Journal</i> , 2016, 16, 6496-6514.	4.7	184

#	ARTICLE	IF	CITATIONS
37	A CMOS ISFET array for wearable thermoelectrically powered perspiration analysis. , 2016, , .		1
38	A robust ISFET array with in-pixel quantisation and automatic offset calibration. , 2016, , .		8
39	Scaling ISFET instrumentation with in-pixel quantisation to deep submicron technologies. , 2016, , .		6
40	Bio-inspired pH sensing using ion sensitive field effect transistors. , 2016, , .		2
41	An ion imaging ISFET array for Potassium and Sodium detection. , 2016, , .		21
42	A novel pH-to-time ISFET pixel architecture with offset compensation. , 2015, , .		15