

Sam Emaminejad

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

6,629
citations

257101

24
h-index

329751

37
g-index

41
all docs

41
docs citations

41
times ranked

8377
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully integrated wearable sensor arrays for multiplexed in situ perspiration analysis. <i>Nature</i> , 2016, 529, 509-514.	13.7	3,508
2	Autonomous sweat extraction and analysis applied to cystic fibrosis and glucose monitoring using a fully integrated wearable platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4625-4630.	3.3	573
3	A Wearable Electrochemical Platform for Noninvasive Simultaneous Monitoring of Ca ²⁺ and pH. <i>ACS Nano</i> , 2016, 10, 7216-7224.	7.3	480
4	Printed Carbon Nanotube Electronics and Sensor Systems. <i>Advanced Materials</i> , 2016, 28, 4397-4414.	11.1	369
5	Wearable Microsensor Array for Multiplexed Heavy Metal Monitoring of Body Fluids. <i>ACS Sensors</i> , 2016, 1, 866-874.	4.0	297
6	Application of 3D Printing for Smart Objects with Embedded Electronic Sensors and Systems. <i>Advanced Materials Technologies</i> , 2016, 1, 1600013.	3.0	167
7	A 3D-printed microfluidic-enabled hollow microneedle architecture for transdermal drug delivery. <i>Biomicrofluidics</i> , 2019, 13, 064125.	1.2	118
8	Wearable aptamer-field-effect transistor sensing system for noninvasive cortisol monitoring. <i>Science Advances</i> , 2022, 8, eabk0967.	4.7	118
9	Gelatin Methacryloyl-Based Tactile Sensors for Medical Wearables. <i>Advanced Functional Materials</i> , 2020, 30, 2003601.	7.8	112
10	A programmable epidermal microfluidic valving system for wearable biofluid management and contextual biomarker analysis. <i>Nature Communications</i> , 2020, 11, 4405.	5.8	92
11	A wearable freestanding electrochemical sensing system. <i>Science Advances</i> , 2020, 6, eaaz0007.	4.7	87
12	Noninvasive wearable electroactive pharmaceutical monitoring for personalized therapeutics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19017-19025.	3.3	71
13	Natural Perspiration Sampling and in Situ Electrochemical Analysis with Hydrogel Micropatches for User-Identifiable and Wireless Chemo/Biosensing. <i>ACS Sensors</i> , 2020, 5, 93-102.	4.0	69
14	Microfluidic diagnostic tool for the developing world: contactless impedance flow cytometry. <i>Lab on A Chip</i> , 2012, 12, 4499.	3.1	59
15	Harnessing the wide-range strain sensitivity of bilayered PEDOT:PSS films for wearable health monitoring. <i>Matter</i> , 2021, 4, 2886-2901.	5.0	59
16	A ferrobatic system for automated microfluidic logistics. <i>Science Robotics</i> , 2020, 5, .	9.9	58
17	Hydrogel-Enabled Transfer Printing of Conducting Polymer Films for Soft Organic Bioelectronics. <i>Advanced Functional Materials</i> , 2020, 30, 1906016.	7.8	55
18	Tunable control of antibody immobilization using electric field. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1995-1999.	3.3	39

#	ARTICLE	IF	CITATIONS
19	A rapid and low-cost fabrication and integration scheme to render 3D microfluidic architectures for wearable biofluid sampling, manipulation, and sensing. Lab on A Chip, 2019, 19, 2844-2853.	3.1	37
20	A Mediator-Free Electroenzymatic Sensing Methodology to Mitigate Ionic and Electroactive Interferents' Effects for Reliable Wearable Metabolite and Nutrient Monitoring. Advanced Functional Materials, 2020, 30, 1908507.	7.8	36
21	Use of Negative Dielectrophoresis for Selective Elution of Protein-Bound Particles. Analytical Chemistry, 2012, 84, 1432-1438.	3.2	33
22	Design Framework and Sensing System for Noninvasive Wearable Electroactive Drug Monitoring. ACS Sensors, 2020, 5, 265-273.	4.0	28
23	Microengineered poly(HEMA) hydrogels for wearable contact lens biosensing. Lab on A Chip, 2020, 20, 4205-4214.	3.1	27
24	An autonomous wearable system for diurnal sweat biomarker data acquisition. Lab on A Chip, 2020, 20, 4582-4591.	3.1	26
25	Portable cytometry using microscale electronic sensing. Sensors and Actuators B: Chemical, 2016, 224, 275-281.	4.0	22
26	Processing gain and noise in multi-electrode impedance cytometers: Comprehensive electrical design methodology and characterization. Sensors and Actuators B: Chemical, 2017, 241, 672-680.	4.0	20
27	Smart Surface for Elution of Protein-Bound Particles: Nanonewton Dielectrophoretic Forces Using Atomic Layer Deposited Oxides. Analytical Chemistry, 2012, 84, 10793-10801.	3.2	15
28	A wearable electrofluidic actuation system. Lab on A Chip, 2019, 19, 2966-2972.	3.1	15
29	A touch-based multimodal and cryptographic bio-human-machine interface. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2201937119.	3.3	11
30	Multiplexed actuation using ultra dielectrophoresis for proteomics applications: a comprehensive electrical and electrothermal design methodology. Lab on A Chip, 2014, 14, 2105-2114.	3.1	9
31	Wearable Tactile Sensors: Gelatin Methacryloyl-Based Tactile Sensors for Medical Wearables (Adv. Tj ETQq1 1 0.784314 rgBT /Over	7.8	6
32	A Fouling-Resistant Voltammetric Sensing System for Wearable Electroactive Biomarker Monitoring. Journal of Microelectromechanical Systems, 2020, 29, 1059-1063.	1.7	4
33	Extraction of Signal from Noise: Impedance Cytometry Using Multi-electrode Sensing. IEEE Sensors Journal, 2015, , 1-1.	2.4	3
34	An Adhesive and Corrosion-Resistant Biomarker Sensing Film for Biosmart Wearable Consumer Electronics. Journal of Microelectromechanical Systems, 2020, 29, 1112-1114.	1.7	2
35	Hydrogel-Enabled Transfer Printing: Hydrogel-Enabled Transfer Printing of Conducting Polymer Films for Soft Organic Bioelectronics (Adv. Funct. Mater. 6/2020). Advanced Functional Materials, 2020, 30, 2070038.	7.8	2
36	An Autonomous Diurnal Sweat Sampling Patch for Biomarker Data Analytics. Journal of Microelectromechanical Systems, 2020, 29, 1106-1108.	1.7	1

#	ARTICLE	IF	CITATIONS
37	A fully integrated electronic platform for multiplexed intermolecular force spectroscopy. , 2017, , .		0
38	A Stimuli-Responsive Hydrogel Array Fabrication Scheme for Large-Scale and Wearable Microfluidic Valving. Journal of Microelectromechanical Systems, 2020, 29, 1115-1117.	1.7	0
39	Electroenzymatic Sensors: A Mediator-Free Electroenzymatic Sensing Methodology to Mitigate Ionic and Electroactive Interferents' Effects for Reliable Wearable Metabolite and Nutrient Monitoring (Adv. Funct. Mater. 10/2020). Advanced Functional Materials, 2020, 30, 2070066.	7.8	0