

Nominerdene Oyunbaatar

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,379
citations

361413

20
h-index

345221

36
g-index

60
all docs

60
docs citations

60
times ranked

1707
citing authors

#	ARTICLE	IF	CITATIONS
1	A galinstan-based inkjet printing system for highly stretchable electronics with self-healing capability. Lab on A Chip, 2016, 16, 1366-1373.	6.0	135
2	Selectively plated stretchable liquid metal wires for transparent electronics. Sensors and Actuators B: Chemical, 2015, 221, 1114-1119.	7.8	132
3	An advanced selective liquid-metal plating technique for stretchable biosensor applications. Lab on A Chip, 2017, 17, 3415-3421.	6.0	88
4	PDMS based coplanar microfluidic channels for the surface reduction of oxidized Galinstan. Lab on A Chip, 2014, 14, 200-209.	6.0	80
5	A Wireless Pressure Sensor Integrated with a Biodegradable Polymer Stent for Biomedical Applications. Sensors, 2016, 16, 809.	3.8	75
6	Graphene/polydimethylsiloxane nanocomposite strain sensor. Review of Scientific Instruments, 2013, 84, 105005.	1.3	67
7	Highly durable crack sensor integrated with silicone rubber cantilever for measuring cardiac contractility. Nature Communications, 2020, 11, 535.	12.8	66
8	Scalable and ascendant synthesis of carbon cloth coated hierarchical core-shell CoMoS@Co(OH) ₂ for flexible and high-performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 9592-9603.	10.3	64
9	A Super-Lyophobic 3-D PDMS Channel as a Novel Microfluidic Platform to Manipulate Oxidized Galinstan. Journal of Microelectromechanical Systems, 2013, 22, 1267-1275.	2.5	56
10	An oxidized liquid metal-based microfluidic platform for tunable electronic device applications. Lab on A Chip, 2015, 15, 766-775.	6.0	56
11	Surface-patterned SU-8 cantilever arrays for preliminary screening of cardiac toxicity. Biosensors and Bioelectronics, 2016, 80, 456-462.	10.1	49
12	Hierarchical nanohybrids of B- and N-codoped graphene/mesoporous NiO nanodisks: an exciting new material for selective sensing of H ₂ S at near ambient temperature. Journal of Materials Chemistry A, 2019, 7, 9263-9278.	10.3	46
13	Biomechanical Characterization of Cardiomyocyte Using PDMS Pillar with Microgrooves. Sensors, 2016, 16, 1258.	3.8	40
14	Anion-exchange phase control of manganese sulfide for oxygen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 3901-3909.	10.3	37
15	Carbon nanotubes-based PdM bimetallic catalysts through N4-system for efficient ethanol oxidation and hydrogen evolution reaction. Scientific Reports, 2019, 9, 11051.	3.3	28
16	Fabrication of Optically Transparent PDMS Artificial Lotus Leaf Film Using Underexposed and Underbaked Photoresist Mold. Journal of Microelectromechanical Systems, 2013, 22, 1073-1080.	2.5	26
17	Exposure to nanoplastics impairs collective contractility of neonatal cardiomyocytes under electrical synchronization. Biomaterials, 2021, 278, 121175.	11.4	24
18	Note: High-efficiency energy harvester using double-clamped piezoelectric beams. Review of Scientific Instruments, 2014, 85, 026101.	1.3	21

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19	Contractile behaviors of cardiac muscle cells on mushroom-shaped micropillar arrays. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 174, 103-109.	5.0	21
20	Micro-patterned SU-8 cantilever integrated with metal electrode for enhanced electromechanical stimulation of cardiac cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 186, 110682.	5.0	21
21	Polymeric cantilever integrated with PDMS/graphene composite strain sensor. <i>Review of Scientific Instruments</i> , 2016, 87, 105004.	1.3	19
22	Mechanoadaptive organization of stress fiber subtypes in epithelial cells under cyclic stretches and stretch release. <i>Scientific Reports</i> , 2020, 10, 18684.	3.3	17
23	Artificial Heart Based on Electrically Controlled Non-Toxic Liquid Metal Pump. <i>Advanced Engineering Materials</i> , 2019, 21, 1900381.	3.5	16
24	Theoretical analysis of postbuckling behavior with experimental validation using electrothermal microbeams. <i>Applied Physics Letters</i> , 2011, 98, 073107.	3.3	15
25	A Quasi 2D Flexible Micro-Supercapacitor Based on $\text{MnO}_2/\text{NiCo}_2\text{O}_4$ as a Miniaturized Energy Storage Device. <i>Energy Technology</i> , 2018, 6, 1380-1391.	3.8	15
26	Electrochemically controllable actuation of liquid metal droplets based on Marangoni effect. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	14
27	64 PI/PDMS hybrid cantilever arrays with an integrated strain sensor for a high-throughput drug toxicity screening application. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113380.	10.1	14
28	Computational study of effects of contact resistance on a large-scale vanadium redox flow battery stack. <i>International Journal of Energy Research</i> , 2019, 43, 2343-2360.	4.5	12
29	Polymer-Based Functional Cantilevers Integrated with Interdigitated Electrode Arrays—A Novel Platform for Cardiac Sensing. <i>Micromachines</i> , 2020, 11, 450.	2.9	12
30	Transition metal sulfide-laminated copper wire for flexible hybrid supercapacitor. <i>New Journal of Chemistry</i> , 2020, 44, 18489-18495.	2.8	11
31	On-stage bioreactor platform integrated with nano-patterned and gold-coated PDMS diaphragm for live cell stimulation and imaging. <i>Materials Science and Engineering C</i> , 2021, 118, 111355.	7.3	11
32	Real-Time Monitoring of Changes in Cardiac Contractility Using Silicon Cantilever Arrays Integrated with Strain Sensors. <i>ACS Sensors</i> , 2021, 6, 3556-3563.	7.8	10
33	A smart microfour-point probe with ultrasharp in-plane tips. <i>Review of Scientific Instruments</i> , 2009, 80, 045107.	1.3	8
34	Hydrochloric acid-impregnated paper for liquid metal microfluidics. , 2013, , .		7
35	Selective nano-patterning of graphene using a heated atomic force microscope tip. <i>Review of Scientific Instruments</i> , 2014, 85, 045002.	1.3	7
36	A Comparative Study of an Anti-Thrombotic Small-Diameter Vascular Graft with Commercially Available e-PTFE Graft in a Porcine Carotid Model. <i>Tissue Engineering and Regenerative Medicine</i> , 2022, , 1.	3.7	7

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37	Miniaturized piezoelectric energy harvester for battery-free portable electronics. International Journal of Energy Research, 2019, 43, 2402.	4.5	6
38	Stress-assisted gold micro-wrinkles on a polymer cantilever for cardiac tissue engineering. Colloids and Surfaces B: Biointerfaces, 2022, 209, 112210.	5.0	6
39	The effect of topographical and mechanical stimulation on the structural and functional anisotropy of cardiomyocytes grown on a circular PDMS diaphragm. Biosensors and Bioelectronics, 2022, 204, 114017.	10.1	6
40	Analysis on microfinger with grooved patterns and its application in electric-thermal microgripper. International Journal of Advanced Manufacturing Technology, 2011, 56, 505-513.	3.0	5
41	3D-printed biodegradable polymeric stent integrated with a battery-less pressure sensor for biomedical applications. , 2017, , .		5
42	Highly Flexible Superhydrophobic Poly(Urethane Acrylate) Film for Applications Requiring High Optical Transparency. Macromolecular Materials and Engineering, 2020, 305, 2000292.	3.6	5
43	An investigation of electrical transport properties through a monolithic square-configured micro-four-point probe with ultra-sharp tips. Sensors and Actuators A: Physical, 2011, 166, 247-250.	4.1	4
44	Enhancement of cardiac contractility using gold-coated SU-8 cantilevers and their application to drug-induced cardiac toxicity tests. Analyst, The, 2021, 146, 6768-6779.	3.5	4
45	Internal Cavitating Flow and External Spray Behavior Characteristics According to Length-to-Width Ratio of Transparent Nozzle Orifice. International Journal of Automotive Technology, 2020, 21, 181-188.	1.4	3
46	A New Micro-Four-Point Probe Design for Various Applications. , 2009, , .		2
47	Catalytic combustion in a plate type combustor to achieve uniform temperature distribution. Journal of Mechanical Science and Technology, 2018, 32, 2407-2418.	1.5	2
48	Single layer graphene nano-patterning based on local anodic lithography in ambient conditions. , 2013, , .		1
49	A self-adjustable four-point probing system using polymeric three dimensional coils and non-toxic liquid metal. Review of Scientific Instruments, 2015, 86, 125006.	1.3	1
50	Photocurable PUA (Poly Urethaneacrylat) cantilever integrated with ultra-high sensitive crack-based sensor. , 2017, , .		1
51	Mea-On-Cantilever - A Novel Multifunctional Device for Drug Toxicity Screening in Cardiomyocytes. , 2021, , .		1
52	A switchable cantilver for a chemically sensitive scanning force microscope. Journal of Mechanical Science and Technology, 2005, 19, 2172-2178.	1.5	0
53	Fabrication of a stepped shape tip using a self-descending phenomena of meniscus. , 2009, , .		0
54	Fabrication of polymer cantilever integrated full-bridge as a piezoresistive sensor. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
55	High-Throughput Interdigitated Electrode Array on Microgroove-Patterned Cantilever to Measure Electro-Mechanical Properties of Cardiomyocytes. , 2019, , .		0
56	A Novel Stage-Top-Bioreactor Integrated with Nano-Textured Polydimethylsiloxane (PDMS) Diaphragm. , 2019, , .		0
57	Liquid metal based flexible microfluidic device for wireless sensor applications. , 2019, , .		0
58	Editorial for the Special Issue on the ICAE 2019. Micromachines, 2020, 11, 874.	2.9	0
59	Study on Cavitating Flow Inside Orifice and Spray Angle Near Nozzle Tip According to the Position of Needle Using Enlarged Transparent Acrylic Nozzle. International Journal of Automotive Technology, 2021, 22, 11-18.	1.4	0