

# 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	Stress-assisted gold micro-wrinkles on a polymer cantilever for cardiac tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 209, 112210.	5.0	6
2	The effect of topographical and mechanical stimulation on the structural and functional anisotropy of cardiomyocytes grown on a circular PDMS diaphragm. <i>Biosensors and Bioelectronics</i> , 2022, 204, 114017.	10.1	6
3	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
4	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
5	Study on Cavitating Flow Inside Orifice and Spray Angle Near Nozzle Tip According to the Position of Needle Using Enlarged Transparent Acrylic Nozzle. <i>International Journal of Automotive Technology</i> , 2021, 22, 11-18.	1.4	0
6	Mea-On-Cantilever – A Novel Multifunctional Device for Drug Toxicity Screening in Cardiomyocytes. , 2021, , .		1
7	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
8	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
9	Enhancement of cardiac contractility using gold-coated SU-8 cantilevers and their application to drug-induced cardiac toxicity tests. <i>Analyst, The</i> , 2021, 146, 6768-6779.	3.5	4
10	Exposure to nanoplastics impairs collective contractility of neonatal cardiomyocytes under electrical synchronization. <i>Biomaterials</i> , 2021, 278, 121175.	11.4	24
11	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
12	Editorial for the Special Issue on the ICAE 2019. <i>Micromachines</i> , 2020, 11, 874.	2.9	0
13	Transition metal sulfide-laminated copper wire for flexible hybrid supercapacitor. <i>New Journal of Chemistry</i> , 2020, 44, 18489-18495.	2.8	11
14	Highly Flexible Superhydrophobic Poly(Urethane Acrylate) Film for Applications Requiring High Optical Transparency. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000292.	3.6	5
15	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
16	Polymer-Based Functional Cantilevers Integrated with Interdigitated Electrode Arrays – A Novel Platform for Cardiac Sensing. <i>Micromachines</i> , 2020, 11, 450.	2.9	12
17	Internal Cavitating Flow and External Spray Behavior Characteristics According to Length-to-Width Ratio of Transparent Nozzle Orifice. <i>International Journal of Automotive Technology</i> , 2020, 21, 181-188.	1.4	3
18	Highly durable crack sensor integrated with silicone rubber cantilever for measuring cardiac contractility. <i>Nature Communications</i> , 2020, 11, 535.	12.8	66

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19	Anion-exchange phase control of manganese sulfide for oxygen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 3901-3909.	10.3	37
20	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
21	High-Throughput Interdigitated Electrode Array on Microgroove-Patterned Cantilever to Measure Electro-Mechanical Properties of Cardiomyocytes. , 2019, , .		0
22	A Novel Stage-Top-Bioreactor Integrated with Nano-Textured Polydimethylsiloxane (PDMS) Diaphragm. , 2019, , .		0
23	Electrochemically controllable actuation of liquid metal droplets based on Marangoni effect. Journal of Applied Physics, 2019, 126, .	2.5	14
24	Artificial Heart Based on Electrically Controlled Nonâ€Toxic Liquid Metal Pump. Advanced Engineering Materials, 2019, 21, 1900381.	3.5	16
25	Hierarchical nanohybrids of B- and N-codoped graphene/mesoporous NiO nanodisks: an exciting new material for selective sensing of H <sub>2</sub> S at near ambient temperature. Journal of Materials Chemistry A, 2019, 7, 9263-9278.	10.3	46
26	Miniaturized piezoelectric energy harvester for batteryâ€free portable electronics. International Journal of Energy Research, 2019, 43, 2402.	4.5	6
27	Computational study of effects of contact resistance on a large-scale vanadium redox flow battery stack. International Journal of Energy Research, 2019, 43, 2343-2360.	4.5	12
28	Liquid metal based flexible microfluidic device for wireless sensor applications. , 2019, , .		0
29	Contractile behaviors of cardiac muscle cells on mushroom-shaped micropillar arrays. Colloids and Surfaces B: Biointerfaces, 2019, 174, 103-109.	5.0	21
30	Scalable and ascendant synthesis of carbon cloth coated hierarchical coreâ€shell CoMoS@Co(OH) <sub>2</sub> for flexible and high-performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 9592-9603.	10.3	64
31	A Quasi 2D Flexible Microâ€Supercapacitor Based on MnO <sub>2</sub> //NiCo <sub>2</sub> O <sub>4</sub> as a Miniaturized Energyâ€Storage Device. Energy Technology, 2018, 6, 1380-1391.	3.8	15
32	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
33	3D-printed biodegradable polymeric stent integrated with a battery-less pressure sensor for biomedical applications. , 2017, , .		5
34	An advanced selective liquid-metal plating technique for stretchable biosensor applications. Lab on A Chip, 2017, 17, 3415-3421.	6.0	88
35	Photocurable PUA (Poly Urethaneacrylat) cantilever integrated with ultra-high sensitive crack-based sensor. , 2017, , .		1
36	Biomechanical Characterization of Cardiomyocyte Using PDMS Pillar with Microgrooves. Sensors, 2016, 16, 1258.	3.8	40

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37	A Wireless Pressure Sensor Integrated with a Biodegradable Polymer Stent for Biomedical Applications. <i>Sensors</i> , 2016, 16, 809.	3.8	75
38	Polymeric cantilever integrated with PDMS/graphene composite strain sensor. <i>Review of Scientific Instruments</i> , 2016, 87, 105004.	1.3	19
39	Surface-patterned SU-8 cantilever arrays for preliminary screening of cardiac toxicity. <i>Biosensors and Bioelectronics</i> , 2016, 80, 456-462.	10.1	49
40	A galinstan-based inkjet printing system for highly stretchable electronics with self-healing capability. <i>Lab on A Chip</i> , 2016, 16, 1366-1373.	6.0	135
41	A self-adjustable four-point probing system using polymeric three dimensional coils and non-toxic liquid metal. <i>Review of Scientific Instruments</i> , 2015, 86, 125006.	1.3	1
42	An oxidized liquid metal-based microfluidic platform for tunable electronic device applications. <i>Lab on A Chip</i> , 2015, 15, 766-775.	6.0	56
43	Selectively plated stretchable liquid metal wires for transparent electronics. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1114-1119.	7.8	132
44	Note: High-efficiency energy harvester using double-clamped piezoelectric beams. <i>Review of Scientific Instruments</i> , 2014, 85, 026101.	1.3	21
45	Selective nano-patterning of graphene using a heated atomic force microscope tip. <i>Review of Scientific Instruments</i> , 2014, 85, 045002.	1.3	7
46	PDMS based coplanar microfluidic channels for the surface reduction of oxidized Galinstan. <i>Lab on A Chip</i> , 2014, 14, 200-209.	6.0	80
47	Fabrication of Optically Transparent PDMS Artificial Lotus Leaf Film Using Underexposed and Underbaked Photoresist Mold. <i>Journal of Microelectromechanical Systems</i> , 2013, 22, 1073-1080.	2.5	26
48	Graphene/polydimethylsiloxane nanocomposite strain sensor. <i>Review of Scientific Instruments</i> , 2013, 84, 105005.	1.3	67
49	A Super-Lyophobic 3-D PDMS Channel as a Novel Microfluidic Platform to Manipulate Oxidized Galinstan. <i>Journal of Microelectromechanical Systems</i> , 2013, 22, 1267-1275.	2.5	56
50	Hydrochloric acid-impregnated paper for liquid metal microfluidics. , 2013, , .		7
51	Single layer graphene nano-patterning based on local anodic lithography in ambient conditions. , 2013, , .		1
52	Analysis on microfingert with grooved patterns and its application in electricâ€thermal microgripper. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 56, 505-513.	3.0	5
53	An investigation of electrical transport properties through a monolithic square-configured micro-four-point probe with ultra-sharp tips. <i>Sensors and Actuators A: Physical</i> , 2011, 166, 247-250.	4.1	4
54	Theoretical analysis of postbuckling behavior with experimental validation using electrothermal microbeams. <i>Applied Physics Letters</i> , 2011, 98, 073107.	3.3	15

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55	Fabrication of polymer cantilever integrated full-bridge as a piezoresistive sensor. , 2010, , .		0
56	A smart microfour-point probe with ultrasharp in-plane tips. Review of Scientific Instruments, 2009, 80, 045107.	1.3	8
57	A New Micro-Four-Point Probe Design for Various Applications. , 2009, , .		2
58	Fabrication of a stepped shape tip using a self-descending phenomena of meniscus. , 2009, , .		0
59	A switchable cantilver for a chemically sensitive scanning force microscope. Journal of Mechanical Science and Technology, 2005, 19, 2172-2178.	1.5	0