Maria Tenje

List of Publications by Year
in descending order

65 papers	2,612 citations	304743 22 h-index	189892 50 g-index
66 all docs	66 docs citations	66 times ranked	3492 citing authors

#	Article	IF	Citations
1	Cantilever-like micromechanical sensors. Reports on Progress in Physics, 2011, 74, 036101.	20.1	473
2	Gold cleaning methods for electrochemical detection applications. Microelectronic Engineering, 2009, 86, 1282-1285.	2.4	257
3	Biomimetic spinning of artificial spider silk from a chimeric minispidroin. Nature Chemical Biology, 2017, 13, 262-264.	8.0	231
4	In Vitro Bloodâ€“Brain Barrier Modelsâ€”An Overview of Established Models and New Microfluidic Approaches. Journal of Pharmaceutical Sciences, 2015, 104, 2727-2746.	3.3	156
5	Highly sensitive polymer-based cantilever-sensors for DNA detection. Ultramicroscopy, 2005, 105, 215-222.	1.9	153
6	SU-8 Cantilevers for Bio/chemical Sensing; Fabrication, Characterisation and Development of Novel Read-out Methods. Sensors, 2008, 8, 1595-1612.	3.8	127
7	In-Line Analysis of Organ-on-Chip Systems with Sensors: Integration, Fabrication, Challenges, and Potential. ACS Biomaterials Science and Engineering, 2021, 7, 2926-2948.	5.2	95
8	Single-Mode Waveguides With SU-8 Polymer Core and Cladding for MOEMS Applications. Journal of Lightwave Technology, 2007, 25, 1284-1289.	4.6	94
9	Rendering SU-8 hydrophilic to facilitate use in micro channel fabrication. Journal of Micromechanics and Microengineering, 2004, 14, 1614-1617.	2.6	91
10	Immobilisation of DNA to polymerised SU-8 photoresist. Biosensors and Bioelectronics, 2006, 21, 1327-1332.	10.1	81
11	Low-noise polymeric nanomechanical biosensors. Applied Physics Letters, 2006, 88, 113901.	3.3	66
12	Investigation of the bond strength between the photo-sensitive polymer SU-8 and gold. Microelectronic Engineering, 2005, 78-79, 152-157.	2.4	56
13	Organ-on-a-chip technology: a novel approach to investigate cardiovascular diseases. Cardiovascular Research, 2021, 117, 2742-2754.	3.8	53
14	A practical guide to microfabrication and patterning of hydrogels for biomimetic cell culture scaffolds. Organs-on-a-Chip, 2020, 2, 100003.	3.2	51
15	Fabrication of high-aspect ratio SU-8 micropillar arrays. Microelectronic Engineering, 2012, 98, 483-487.	2.4	49
16	Integrated optical readout for miniaturization of cantilever-based sensor system. Applied Physics Letters, 2007, 91, 103512.	3.3	41
17	PDMS leaching and its implications for on-chip studies focusing on bone regeneration applications. Organs-on-a-Chip, 2020, 2, 100004.	3.2	40
18	Particle Manipulation Methods in Droplet Microfluidics. Analytical Chemistry, 2018, 90, 1434-1443.	6.5	39

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19	Dry release of all-polymer structures. Microelectronic Engineering, 2005, 78-79, 88-92.	2.4	37
20	Controlled Lateral Positioning of Microparticles Inside Droplets Using Acoustophoresis. Analytical Chemistry, 2015, 87, 10521-10526.	6.5	34
21	Binary particle separation in droplet microfluidics using acoustophoresis. Applied Physics Letters, 2018, 112, .	3.3	32
22	Dense high-aspect ratio 3D carbon pillars on interdigitated microelectrode arrays. Carbon, 2015, 94, 792-803.	10.3	28
23	An intra-droplet particle switch for droplet microfluidics using bulk acoustic waves. Biomicrofluidics, 2017, 11, 031101.	2.4	21
24	Simvastatin and zinc synergistically enhance osteoblasts activity and decrease the acute response of inflammatory cells. Journal of Materials Science: Materials in Medicine, 2016, 27, 23.	3.6	19
25	A microfluidics-based method for culturing osteoblasts on biomimetic hydroxyapatite. Acta Biomaterialia, 2021, 127, 327-337.	8.3	18
26	Microfluidic PMMA interfaces for rectangular glass capillaries. Journal of Micromechanics and Microengineering, 2014, 24, 027003.	2.6	17
27	Intra-droplet acoustic particle focusing: simulations and experimental observations. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	17
28	Acoustic trapping as a generic non-contact incubation site for multiplex bead-based assays. Analytica Chimica Acta, 2015, 853, 682-688.	5.4	16
29	Drift study of SU8 cantilevers in liquid and gaseous environments. Ultramicroscopy, 2010, 110, 596-598.	1.9	14
30	Evaluation of Biocompatibility and Release of Reactive Oxygen Species of Aluminum Oxide-Coated Materials. ACS Omega, 2016, 1, 706-713.	3.5	14
31	Development of nanoporous gold electrodes for electrochemical applications. Microelectronic Engineering, 2011, 88, 2379-2382.	2.4	13
32	Acoustophoretic removal of proteins from blood components. Biomedical Microdevices, 2015, 17, 95.	2.8	13
33	An acoustofluidic platform for non-contact trapping of cell-laden hydrogel droplets compatible with optical microscopy. Biomicrofluidics, 2019, 13, 044101.	2.4	13
34	Development of a microfabricated electrochemical-cantilever hybrid platform. Sensors and Actuators B: Chemical, 2011, 157, 321-327.	7.8	12
35	In-situ monitoring of potential enhanced DNA related processes using electrochemical quartz crystal microbalance with dissipation (EQCM-D). Electrochemistry Communications, 2014, 48, 111-114.	4.7	12
36	Exploring microfluidics as a tool to evaluate the biological properties of a titanium alloy under dynamic conditions. Biomaterials Science, 2020, 8, 6309-6321.	5.4	11

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37	Fabrication of Silicon Microfluidic Chips for Acoustic Particle Focusing Using Direct Laser Writing. Micromachines, 2020, 11, 113.	2.9	10
38	Improved positioning and detectability of microparticles in droplet microfluidics using two-dimensional acoustophoresis. Journal of Micromechanics and Microengineering, 2017, 27, 084002.	2.6	9
39	A microscopy-compatible temperature regulation system for single-cell phenotype analysis â€“ demonstrated by thermoresponse mapping of microalgae. Lab on A Chip, 2021, 21, 1694-1705.	6.0	9
40	Acoustic focusing of beads and cells in hydrogel droplets. Scientific Reports, 2021, 11, 7479.	3.3	9
41	On-chip background dilution in droplets with high particle recovery using acoustophoresis. Biomicrofluidics, 2019, 13, 064123.	2.4	8
42	Binary acoustic trapping in a glass capillary. Journal Physics D: Applied Physics, 2021, 54, 355401.	2.8	8
43	Monolithic single mode SU-8 waveguides for integrated optics. , 2006, 6112, 43.		7
44	Fabrication and characterisation of a silicon-borosilicate glass microfluidic device for synchrotron-based hard X-ray spectroscopy studies. RSC Advances, 2021, 11, 29859-29869.	3.6	7
45	Fabrication of user-friendly and biomimetic 1,1â€²-carbonyldiimidazole cross-linked gelatin/agar microfluidic devices. Materials Science and Engineering C, 2017, 76, 1175-1180.	7.3	6
46	Integrated thin film resistive sensors for in situ temperature measurements in an acoustic trap. Journal of Micromechanics and Microengineering, 2019, 29, 095003.	2.6	6
47	Polymeric micro-channel-based functionalisation system for micro-cantilevers. Ultramicroscopy, 2005, 105, 281-286.	1.9	5
48	Sloped side walls in SU-8 structures with â€˜Step-and-Flashâ€™ processing. Microelectronic Engineering, 2006, 83, 1269-1272.	2.4	4
49	Optimisation of the droplet split design for high acoustic particle enrichment in droplet microfluidics. Microelectronic Engineering, 2020, 226, 111303.	2.4	4
50	Brain microvasculature endothelial cell orientation on micropatterned hydrogels is affected by glucose level variations. Scientific Reports, 2021, 11, 19608.	3.3	4
51	Dynamics of DNA Clogging in Hafnium Oxide Nanopores. Journal of Physical Chemistry B, 2020, 124, 11573-11583.	2.6	4
52	A droplet acoustofluidic platform for time-controlled microbead-based reactions. Biomicrofluidics, 2021, 15, 034103.	2.4	3
53	Experimental Characterization and Mathematical Modeling of the Adsorption of Proteins and Cells on Biomimetic Hydroxyapatite. ACS Omega, 2022, 7, 908-920.	3.5	3
54	Photophysiological response of Symbiodiniaceae single cells to temperature stress. ISME Journal, 2022, 16, 2060-2064.	9.8	3

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55	Microfluidics platform for studies of peptide â€“ polyelectrolyte interaction. International Journal of Pharmaceutics, 2022, 621, 121785.	5.2	3
56	A novel fabrication technique for free-hanging homogeneous polymeric cantilever waveguides. Journal of Micromechanics and Microengineering, 2008, 18, 015017.	2.6	2
57	Effect of the Addition Frequency of 5-Azacytidine in Both Micro- and Macroscale Cultures. Cellular and Molecular Bioengineering, 2021, 14, 121-130.	2.1	1
58	Confocal imaging dataset to assess endothelial cell orientation during extreme glucose conditions. Scientific Data, 2022, 9, 26.	5.3	1
59	Integrated cooling system for microfluidic PDMS devices used in biological microscopy studies. Journal of Micromechanics and Microengineering, 2022, 32, 087001.	2.6	1
60	An electrochemical-cantilever hybrid sensor for metal ions. , 2010, , .		0
61	An electrochemical-cantilever platform for hybrid sensing applications. , 2011, , .		0
62	Nanomechanical Sensing. Journal of Sensors, 2012, 2012, 1-1.	1.1	0
63	Droplet Dilution Unit Operation Including Bead Washing Using Integrated Acoustophoresis. , 2019, , .		0
64	Trapping of Cell-Laden Hyaluronic Acid-Acrylamide Hydrogel Droplets using Bulk Acoustic Waves. , 2019, , .		0
65	A microfluidic-based approach to investigate the inflammatory response of macrophages to pristine and drug-loaded nanostructured hydroxyapatite. Materials Today Bio, 2022, 16, 100351.	5.5	0