

# Giuseppe Firpo

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

557  
citations

623734

14  
h-index

642732

23  
g-index

31  
all docs

31  
docs citations

31  
times ranked

840  
citing authors

#	ARTICLE	IF	CITATIONS
1	High blood flow shear stress values are associated with circulating tumor cells cluster disaggregation in a multi-channel microfluidic device. PLoS ONE, 2021, 16, e0245536.	2.5	31
2	High-vacuum setup for permeability and diffusivity measurements by membrane techniques. Vacuum, 2021, 191, 110368.	3.5	9
3	Electrical biosensing with synthetic nanopores and nanochannels. Current Opinion in Electrochemistry, 2021, 29, 100754.	4.8	4
4	Plasma Sputtered Tungsten Oxide Thin Film on Poly(lactic acid) for Food Packaging Applications. Coatings, 2021, 11, 1281.	2.6	6
5	Junction gap breakdown-based fabrication of polydimethylsiloxane ionic rectifiers. Journal of Micromechanics and Microengineering, 2020, 30, 025004.	2.6	3
6	Nanofluidic-Based Accumulation of Antigens for Miniaturized Immunoassay. Sensors, 2020, 20, 1615.	3.8	7
7	Ion Current Rectification in Extra-Long Nanofunnels. Applied Sciences (Switzerland), 2020, 10, 3749.	2.5	2
8	Integrating Microstructured Electrospun Scaffolds in an Open Microfluidic System for in Vitro Studies of Human Patient-Derived Primary Cells. ACS Biomaterials Science and Engineering, 2020, 6, 3649-3663.	5.2	8
9	In vitro demonstration of intestinal absorption mechanisms of different sugars using 3D organotypic tissues in a fluidic device. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 255-264.	1.5	18
10	The Role of Surfaces in Gas Transport Through Polymer Membranes. Polymers, 2019, 11, 910.	4.5	7
11	Increased Flexibility in Lab-on-Chip Design with a Polymer Patchwork Approach. Nanomaterials, 2019, 9, 1678.	4.1	7
12	Gas permeation through rubbery polymer nano-corrugated membranes. Scientific Reports, 2018, 8, 6345.	3.3	19
13	Simultaneous Electro-Optical Tracking for Nanoparticle Recognition and Counting. Nano Letters, 2015, 15, 5696-5701.	9.1	28
14	Selective protein detection with a dsLNA-functionalized nanopore. Biosensors and Bioelectronics, 2015, 64, 219-226.	10.1	14
15	Stretching of DNA confined in nanochannels with charged walls. Biomicrofluidics, 2014, 8, 064121.	2.4	21
16	Nano-holes as standard leak elements. Measurement: Journal of the International Measurement Confederation, 2014, 58, 335-341.	5.0	26
17	Role of substrate morphology in ion induced dewetting of thin solid films. Applied Surface Science, 2014, 315, 432-439.	6.1	8
18	Conformations of DNA in Triangular Nanochannels. Macromolecules, 2013, 46, 4198-4206.	4.8	24

#	ARTICLE	IF	CITATIONS
19	Mechanical squeezing of an elastomeric nanochannel device: numerical simulations and ionic current characterization. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 21-30.	2.2	11
20	Ion induced spinodal dewetting of thin solid films. <i>Applied Physics Letters</i> , 2012, 100, 223113.	3.3	23
21	Order versus Disorder: in vivo bone formation within osteoconductive scaffolds. <i>Scientific Reports</i> , 2012, 2, 274.	3.3	67
22	Size and functional tuning of solid state nanopores by chemical functionalization. <i>Nanotechnology</i> , 2012, 23, 435301.	2.6	15
23	Modulating DNA Translocation by a Controlled Deformation of a PDMS Nanochannel Device. <i>Scientific Reports</i> , 2012, 2, 791.	3.3	38
24	DNA manipulation with elastomeric nanostructures fabricated by soft-moulding of a FIB-patterned stamp. <i>Lab on A Chip</i> , 2011, 11, 2625.	6.0	33
25	DNA detection with a polymeric nanochannel device. <i>Lab on A Chip</i> , 2011, 11, 2961.	6.0	48
26	“DNA-Dressed Nanopore” for complementary sequence detection. <i>Biosensors and Bioelectronics</i> , 2011, 29, 125-131.	10.1	41
27	Fabrication of Elastomeric Nanofluidic Devices for Manipulation of Long DNA Molecules. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2009, , 134-140.	0.3	1
28	Fast three-dimensional nanoscale metrology in dual-beam FIB-SEM instrumentation. <i>Ultramicroscopy</i> , 2009, 109, 1338-1342.	1.9	6
29	Nanotechnology Applications in Medicine. <i>Tumori</i> , 2008, 94, 206-215.	1.1	27
30	Nanostructuring polymers by soft lithography templates realized via ion sputtering. <i>Nanotechnology</i> , 2005, 16, 2714-2717.	2.6	5