

Katerina Tsougeni

List of Publications by Year in descending order

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19
papers

797
citations

687363

13
h-index

794594

19
g-index

19
all docs

19
docs citations

19
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart polymeric microfluidics fabricated by plasma processing: controlled wetting, capillary filling and hydrophobic valving. Lab on A Chip, 2010, 10, 462-469.	6.0	164
2	Controlling roughness: from etching to nanotexturing and plasma-directed organization on organic and inorganic materials. Journal Physics D: Applied Physics, 2011, 44, 174021.	2.8	110
3	Control of Nanotexture and Wetting Properties of Polydimethylsiloxane from Very Hydrophobic to Super-Hydrophobic by Plasma Processing. Plasma Processes and Polymers, 2007, 4, 398-405.	3.0	96
4	Controlled protein adsorption on microfluidic channels with engineered roughness and wettability. Sensors and Actuators B: Chemical, 2012, 161, 216-222.	7.8	58
5	Three-dimensional plasma micro-nanotextured cyclo-olefin-polymer surfaces for biomolecule immobilization and environmentally stable superhydrophobic and superoleophobic behavior. Chemical Engineering Journal, 2016, 300, 394-403.	12.7	56
6	Tailoring the surface topography and wetting properties of oxygen-plasma treated polydimethylsiloxane. Journal of Applied Physics, 2005, 98, 113502.	2.5	51
7	Nano-texturing of poly(methyl methacrylate) polymer using plasma processes and applications in wetting control and protein adsorption. Microelectronic Engineering, 2009, 86, 1424-1427.	2.4	48
8	Photosensitive poly(dimethylsiloxane) materials for microfluidic applications. Microelectronic Engineering, 2007, 84, 1104-1108.	2.4	44
9	Tunable Poly(dimethylsiloxane) Topography in O ₂ or Ar Plasmas for Controlling Surface Wetting Properties and Their Ageing. Japanese Journal of Applied Physics, 2007, 46, 744-750.	1.5	39
10	TiO ₂ /ZrO ₂ affinity chromatography polymeric microchip for phosphopeptide enrichment and separation. Lab on A Chip, 2011, 11, 3113.	6.0	29
11	Plasma micro-nanotextured polymeric micromixer for DNA purification with high efficiency and dynamic range. Analytica Chimica Acta, 2016, 942, 58-67.	5.4	24
12	Superhydrophobic, hierarchical, plasma-nanotextured polymeric microchannels sustaining high-pressure flows. Microfluidics and Nanofluidics, 2013, 14, 247-255.	2.2	16
13	Flame aerosol deposition of TiO ₂ nanoparticle films on polymers and polymeric microfluidic devices for on-chip phosphopeptide enrichment. Microelectronic Engineering, 2012, 97, 341-344.	2.4	14
14	Three-dimensional (3D) plasma micro-nanotextured slides for high performance biomolecule microarrays: Comparison with epoxy-silane coated glass slides. Colloids and Surfaces B: Biointerfaces, 2018, 165, 270-277.	5.0	13
15	Oriented spontaneously formed nano-structures on poly(dimethylsiloxane) films and stamps treated in O ₂ plasmas. Microelectronic Engineering, 2008, 85, 1233-1236.	2.4	12
16	Gradient-temperature hot-embossing for dense micropillar array fabrication on thick cyclo-olefin polymeric plates: An example of a microfluidic chromatography column fabrication. Micro and Nano Engineering, 2019, 5, 100042.	2.9	9
17	Fluorescence Enhancement on Silver-Plated Plasma Micro-Nanostructured 3D Polymeric Microarray Substrates for Multiplex Mycotoxin Detection. Processes, 2021, 9, 392.	2.8	7
18	Binding kinetics of bacteria cells on immobilized antibodies in microfluidic channels: Modeling and experiments. Sensors and Actuators B: Chemical, 2017, 253, 247-257.	7.8	5

#	ARTICLE	IF	CITATIONS
19	3D Plasma Nanotextured [®] Polymeric Surfaces for Protein or Antibody Arrays, and Biomolecule and Cell Patterning. <i>Methods in Molecular Biology</i> , 2018, 1771, 27-40.	0.9	2