

Samir M Iqbal

List of Publications by Year in descending order

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73
papers

1,978
citations

304743

22
h-index

254184

43
g-index

73
all docs

73
docs citations

73
times ranked

2560
citing authors

#	ARTICLE	IF	CITATIONS
1	Glioblastoma Multiforme heterogeneity profiling with solid-state micropores. Biomedical Microdevices, 2019, 21, 79.	2.8	2
2	Solid-State Micropores for Living Cell Detection and Discrimination. , 2018, , 263-279.		0
3	Discrimination of metastatic breast cancer cells from indolent cells on aptamer-functionalized surface with imaging-based contour-following techniques. Biomedical Physics and Engineering Express, 2018, 4, 025038.	1.2	2
4	One-step fabrication of flexible nanotextured PDMS as a substrate for selective cell capture. Biomedical Physics and Engineering Express, 2018, 4, 025015.	1.2	10
5	Classification of cancer cells using computational analysis of dynamic morphology. Computer Methods and Programs in Biomedicine, 2018, 156, 105-112.	4.7	24
6	Ion-Sensitive Field-Effect Transistors With Micropillared Gates for Measuring Cell Ion Exchange at Molecular Levels. IEEE Access, 2018, 6, 72675-72682.	4.2	2
7	Self-induced back action actuated nanopore electrophoresis (SANE). Nanotechnology, 2018, 29, 435501.	2.6	30
8	Detection of Cellular Spikes and Classification of Cells from Raw Nanoscale Biosensor Data. Proceedings in Adaptation, Learning and Optimization, 2018, , 75-87.	1.6	0
9	Functionalization of nanotextured substrates for enhanced identification of metastatic breast cancer cells. Nanotechnology, 2017, 28, 385101.	2.6	7
10	Sensing of cancer cell ion exchange as a biomarker with high aspect ratio field-effect transistors. , 2017, , .		0
11	Surface functionalization of nanoporous PLGA microparticles. , 2017, , .		0
12	An accelerated framework for the classification of biological targets from solid-state micropore data. Computer Methods and Programs in Biomedicine, 2016, 134, 53-67.	4.7	3
13	Crosstalk between adjacent nanopores in a solid-state membrane array for multi-analyte high-throughput biomolecule detection. Journal of Applied Physics, 2016, 120, .	2.5	9
14	Differentiating Metastatic and Non-metastatic Tumor Cells from Their Translocation Profile through Solid-State Micropores. Langmuir, 2016, 32, 4924-4934.	3.5	13
15	Accelerating Analysis of Biological Targets from Raw Solid-State Micropore Data. Biophysical Journal, 2016, 110, 331a-332a.	0.5	0
16	Electromechanical transducer for rapid detection, discrimination and quantification of lung cancer cells. Nanotechnology, 2016, 27, 195101.	2.6	7
17	Enhanced proliferation of PC12 neural cells on untreated, nanotextured glass coverslips. Nanotechnology, 2016, 27, 415501.	2.6	7
18	Electrical Profiling and Aptamer Functionalized Nanotextured Surface in a Single Biochip for the Detection of Tumor Cells. Functional Nanostructures, 2016, 1, .	0.0	2

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19	Effects of Nanotexture on Electrical Profiling of Single Tumor Cell and Detection of Cancer from Blood in Microfluidic Channels. <i>Scientific Reports</i> , 2015, 5, 13031.	3.3	18
20	One-step tumor detection from dynamic morphology tracking on aptamer-grafted surfaces. <i>Technology</i> , 2015, 03, 194-200.	1.4	8
21	Nucleic acid aptamers in cancer research, diagnosis and therapy. <i>Chemical Society Reviews</i> , 2015, 44, 1240-1256.	38.1	217
22	Nanotextured polymer substrates show enhanced cancer cell isolation and cell culture. <i>Nanotechnology</i> , 2015, 26, 225101.	2.6	23
23	A microfluidic device approach to generate hollow alginate microfibers with controlled wall thickness and inner diameter. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	21
24	Optical imaging of finger for blood pressure monitoring of the driver. <i>Journal of Local and Global Health Science</i> , 2015, 2015, .	0.2	0
25	Micro+nanotexturing of substrates to enhance ligand-assisted cancer cell isolation. <i>Nanotechnology</i> , 2014, 25, 475102.	2.6	18
26	Electrophysiological analysis of biopsy samples using elasticity as an inherent cell marker for cancer detection. <i>Analytical Methods</i> , 2014, 6, 7166-7174.	2.7	23
27	Parallel recognition of cancer cells using an addressable array of solid-state micropores. <i>Biosensors and Bioelectronics</i> , 2014, 62, 343-349.	10.1	25
28	Differential behavior of EGFR-overexpressing cancer cells through aptamer-functionalized micropores. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 983-992.	2.2	3
29	3D Structural Integrity and Interactions of Single-Stranded Protein-Binding DNA in a Functionalized Nanopore. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5799-5806.	2.6	15
30	Proliferation and migration of tumor cells in tapered channels. <i>Biomedical Microdevices</i> , 2013, 15, 635-643.	2.8	32
31	Salt-Leaching Synthesis of Porous PLGA Nanoparticles. <i>IEEE Nanotechnology Magazine</i> , 2013, 12, 1082-1088.	2.0	9
32	Cell detachment: Post-isolation challenges. <i>Biotechnology Advances</i> , 2013, 31, 1664-1675.	11.7	42
33	Power Scavenging and Optical Absorbance Analysis of Photosynthetically Active Protoplasts. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2013, 135, .	2.3	1
34	Nucleic Acid-Based Encapsulations for Cancer Diagnostics and Drug Delivery. , 2013, , 163-187.		0
35	Nanostructures for Medical Diagnostics. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-21.	2.7	32
36	Microheater platform for selective detachment of DNA. <i>Applied Physics Letters</i> , 2012, 101, 093707.	3.3	11

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37	Synthesis of nano-textured biocompatible scaffolds from chicken eggshells. <i>Nanotechnology</i> , 2012, 23, 475601.	2.6	28
38	Capture, isolation and release of cancer cells with aptamer-functionalized glass bead array. <i>Lab on A Chip</i> , 2012, 12, 4693.	6.0	108
39	Electrical detection of cancer biomarker using aptamers with nanogap break-junctions. <i>Nanotechnology</i> , 2012, 23, 275502.	2.6	52
40	Viscosity and surface-free energy effects in thermal shrinking of solid-state nanopores. <i>Applied Physics Letters</i> , 2012, 100, 233107.	3.3	4
41	Self-assembled synthesis and characterization of microchannels in polymeric membranes. <i>Journal of Applied Physics</i> , 2012, 112, 024701.	2.5	6
42	Electrical fingerprinting, 3D profiling and detection of tumor cells with solid-state micropores. <i>Lab on A Chip</i> , 2012, 12, 2345.	6.0	74
43	GPU-based real-time detection and analysis of biological targets using solid-state nanopores. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 605-615.	2.8	10
44	Nanotextured substrates with immobilized aptamers for cancer cell isolation and cytology. <i>Cancer</i> , 2012, 118, 1145-1154.	4.1	97
45	From molecular electronics to proteonics: Break junctions for biomarker detection. , 2011, , .		2
46	Pulsed plasma polymerization for controlling shrinkage and surface composition of nanopores. <i>Nanotechnology</i> , 2011, 22, 285304.	2.6	18
47	Velocity Effect on Aptamer-Based Circulating Tumor Cell Isolation in Microfluidic Devices. <i>Journal of Physical Chemistry B</i> , 2011, 115, 13891-13896.	2.6	82
48	Coarse-Grained Molecular Dynamics Simulation of DNA Translocation in Chemically Modified Nanopores. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6138-6148.	2.6	22
49	Solid State Nanopores for Selective Sensing of DNA. , 2011, , 107-128.		1
50	An implementation for the detection and analysis of negative peaks in an applied current signal across a silicon nanopore. <i>Proceedings of SPIE</i> , 2011, , .	0.8	4
51	Shrinking of Solid-state Nanopores by Direct Thermal Heating. <i>Nanoscale Research Letters</i> , 2011, 6, 372.	5.7	52
52	Porous Organic Nanolayers for Coating of Solid-state Devices. <i>Journal of Nanobiotechnology</i> , 2011, 9, 18.	9.1	9
53	Biocompatible nanolayered polymerization of MEMS devices. , 2011, 2011, 2901-4.		0
54	Aptamer-Based Lab-on-Chip for Cancer Cell Isolation and Detection. , 2010, , .		1

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55	Active and biomimetic nanofilters for selective protein separation. Biomedical Microdevices, 2010, 12, 317-324.	2.8	4
56	Surface-Immobilized Aptamers for Cancer Cell Isolation and Microscopic Cytology. Cancer Research, 2010, 70, 9371-9380.	0.9	128
57	Effect of fluorescent tags on translocation through nanochannels. , 2010, 2010, 3736-8.		1
58	Rapid Nanomanufacturing of Metallic Break Junctions Using Focused Ion Beam Scratching and Electromigration. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2010, 132, .	2.2	17
59	Vapor-Phase Facile Coatings of Nanotextured Organic Biocompatible Films on Solid-State Substrates. IEEE Nanotechnology Magazine, 2010, 9, 618-624.	2.0	2
60	Integrating engineering and biology for Bio-Nanotechnology curriculum. , 2010, , .		0
61	Modeling DNA Translocation Kinetics in Nanopores With Selectivity. , 2010, , .		0
62	A mesoscale model of DNA interaction with functionalized nanopore. Applied Physics Letters, 2009, 95, 223701.	3.3	9
63	Electrical detection of single-base DNA mutation using functionalized nanoparticles. Applied Physics Letters, 2009, 95, 073703.	3.3	14
64	Electronic detection of selective proteins using non antibody-based CMOS chip. , 2009, , .		5
65	Carbon nanotube coated high-throughput neurointerfaces in assistive environments. , 2009, , .		0
66	Silicon-Based Novel Bio-Sensing Platforms at the Micro and Nano Scale. ECS Transactions, 2009, 16, 25-45.	0.5	7
67	Nanoelectronic-Based Detection for Biology and Medicine. , 2009, , 1433-1449.		6
68	A Mesoscale Model for Molecular Interaction in Functionalized Nanopores. , 2008, , .		1
69	Solid-state nanopore channels with DNA selectivity. Nature Nanotechnology, 2007, 2, 243-248.	31.5	370
70	DNA counterion current and saturation examined by a MEMS-based solid state nanopore sensor. Biomedical Microdevices, 2006, 8, 263-269.	2.8	48
71	Fabrication and characterization of solid-state nanopores using a field emission scanning electron microscope. Applied Physics Letters, 2006, 88, 103109.	3.3	73
72	Direct current electrical characterization of ds-DNA in nanogap junctions. Applied Physics Letters, 2005, 86, 153901.	3.3	86

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73	Characterization of DNA-Nanopore Interactions by Molecular Dynamics. American Journal of Biomedical Sciences, 0, , 344-351.	0.2	21