

Mohd Ridzuan Ahmad

List of Publications by Year in descending order

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75
papers

1,426
citations

706676

14
h-index

651938

25
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76
all docs

76
docs citations

76
times ranked

2464
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic Device with Removable Electrodes for Single Cell Electrical Characterization. , 2022, , 397-409.		0
2	Separation of ctDNA by superparamagnetic bead particles in microfluidic platform for early cancer detection. Journal of Advanced Research, 2021, 33, 109-116.	4.4	17
3	Microfluidic Device for Single Cell Impedance Characterization. , 2020, , .		0
4	ctDNA Detection in Microfluidic Platform: A Promising Biomarker for Personalized Cancer Chemotherapy. Journal of Sensors, 2020, 2020, 1-10.	0.6	11
5	Microfluidic Device with Removable Electrodes for Single Cell Electrical Characterization. , 2020, , 1-13.		0
6	The Effects of Thymus Plant Extracts on Single Breast Cancer Cell Morphology in the Microfluidic Channel. , 2018, , .		1
7	A Simulation Study of Cell Separation in Microfluidic Channel Based on Hydrodynamic Principle. , 2018, , .		0
8	3D SYSTEM CELL ENGINEERING USING MICROâ€“NANOROBOTICS. , 2018, , 255-273.		0
9	Microfluidics for Mass Measurement of Miniature Object Like Single Cell and Single MicroParticle. Microsystems and Nanosystems, 2017, , 523-545.	0.1	0
10	Tapered Microfluidic for Continuous Micro-Object Separation Based on Hydrodynamic Principle. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1413-1421.	2.7	5
11	Finite Element Analysis of Single Cell Stiffness Measurements Using PZT-Integrated Buckling Nanoneedles. Sensors, 2017, 17, 14.	2.1	2
12	Electrical Impedance Spectroscopy for Detection of Cells in Suspensions Using Microfluidic Device with Integrated Microneedles. Applied Sciences (Switzerland), 2017, 7, 170.	1.3	31
13	Application of Environmental Scanning Electron Microscope-Nanomanipulation System on Spheroplast Yeast Cells Surface Observation. Scanning, 2017, 2017, 1-7.	0.7	6
14	In Situ SEM Nanomanipulation and Nanomechanical/Electrical Characterization. Scanning, 2017, 2017, 1-2.	0.7	1
15	Vibrating Nanoneedle for Single Cell Wall Cutting. Microsystems and Nanosystems, 2017, , 421-441.	0.1	0
16	A SIMULATION STUDY OF SINGLE CELL INSIDE AN INTEGRATED DUAL NANONEEDLE-MICROFLUDIC SYSTEM. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	1
17	A Microfluidic Device for Hydrodynamic Trapping and Manipulation Platform of a Single Biological Cell. Applied Sciences (Switzerland), 2016, 6, 40.	1.3	15
18	A NOVEL MODEL OF PZT ACTUATOR AND ITS APPLICATION IN HYSTERESIS AND VIBRATION CONTROLS. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0

#	ARTICLE	IF	CITATIONS
19	INVESTIGATION OF GRAPHENE CHANNEL INTERACTION WITH YEAST CELL FOR CELL COUNTING APPLICATION. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
20	LQR, double-PID and pole placement stabilization and tracking control of single link inverted pendulum. , 2015, , .		18
21	Numerical Analysis of Hydrodynamic Flow in Microfluidic Biochip for Single-Cell Trapping Application. International Journal of Molecular Sciences, 2015, 16, 26770-26785.	1.8	10
22	Single Cell Electrical Characterization Techniques. International Journal of Molecular Sciences, 2015, 16, 12686-12712.	1.8	70
23	A Review of Cell Adhesion Studies for Biomedical and Biological Applications. International Journal of Molecular Sciences, 2015, 16, 18149-18184.	1.8	663
24	Single Cell Mass Measurement Using Drag Force Inside Lab-on-Chip Microfluidics System. IEEE Transactions on Nanobioscience, 2015, 14, 927-934.	2.2	14
25	Numerical simulation of hydrodynamic-based microfluidic device for single cell trapping. , 2014, , .		0
26	Dynamic Hysteresis Based Modeling Of Piezoelectric Actuators. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	0.3	7
27	Rigid and Conductive Dual Nanoprobe for Single Cell Analysis. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.3	1
28	Electrodes Microfluidics System for Microbio Object Analysis. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	0.3	0
29	Trends in characterizing single cell's stiffness properties. Micro and Nano Systems Letters, 2014, 2, .	1.7	21
30	Effect of dopant concentration on the pore formation of porous silicon on n-type silicon. , 2014, , .		2
31	Technological advancements in characterizing single cell's stiffness properties- A review. , 2014, , .		0
32	DNA hybridization detection on porous silicon: A review. , 2014, , .		0
33	Lab-on-chip microfluidic system for single cell mass measurement. , 2014, , .		4
34	Finite element study on tungsten based nano-sensor for single cell intracellular temperature measurement. , 2014, , .		1
35	Dual Nanoprobe for Single Cell Viability Detection: Method Characterization. Jurnal Teknologi (Sciences and Engineering), 2014, 70, .	0.3	0
36	Nano-Sensor for Single Cell Thermal Characterization. Jurnal Teknologi (Sciences and Engineering), 2014, 70, .	0.3	0

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37	Thermistor based nano-needle for single cell thermal characterization. , 2013, , .		0
38	Electrical characterizations of electrodes microfluidics system for microbio object analysis. , 2013, , .		0
39	Integrated dual nanoprobe-microfluidic system for single cell penetration. , 2013, , .		2
40	Single cell trapping in microfluidic channel via hydrodynamic manipulation. , 2013, , .		0
41	Finite Element Analysis of Single Cell Wall Cutting by Piezoelectric-Actuated Vibrating Rigid Nanoneedle. IEEE Nanotechnology Magazine, 2013, 12, 1158-1165.	1.1	11
42	Modeling and simulation of novel method of single cell viability detection via electrical measurement using dual nanoprobes. , 2012, , .		2
43	Electrical and mechanical characterizations of dual nanoprobe for potential application of single cells analysis. , 2012, , .		1
44	Nanofork for Single Cells Adhesion Measurement via ESEM-Nanomanipulator System. IEEE Transactions on Nanobioscience, 2012, 11, 70-78.	2.2	27
45	Instantaneous and Quantitative Single Cells Viability Determination Using Dual Nanoprobe Inside ESEM. IEEE Nanotechnology Magazine, 2012, 11, 298-306.	1.1	30
46	Finite element analysis of single cell surgery using rigid nanoneedle. , 2012, , .		2
47	A computational study of single cells trapping inside a microfluidic channel. , 2012, , .		1
48	Buckling Nanoneedle for Characterizing Single Cells Mechanics Inside Environmental SEM. IEEE Nanotechnology Magazine, 2011, 10, 226-236.	1.1	29
49	Evaluation of the Single Yeast Cell's Adhesion to ITO Substrates With Various Surface Energies via ESEM Nanorobotic Manipulation System. IEEE Transactions on Nanobioscience, 2011, 10, 217-224.	2.2	28
50	Effect of ambient humidity on the strength of the adhesion force of single yeast cell inside environmental-SEM. Ultramicroscopy, 2011, 111, 1176-1183.	0.8	36
51	Fabrication and Application of Nanofork for Measuring Single Cells Adhesion Force inside ESEM. , 2011, , .		0
52	Robotic manipulation and control for Micro and Nano mechatronics. , 2010, , .		1
53	Nanoindentation Methods to Measure Viscoelastic Properties of Single Cells Using Sharp, Flat, and Buckling Tips Inside ESEM. IEEE Transactions on Nanobioscience, 2010, 9, 12-23.	2.2	54
54	Nanofork and Line-patterned Substrate for measuring single cells adhesion force inside ESEM. , 2010, , .		7

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55	Fabrication and application of nanofork for measuring single cells adhesion force inside ESEM. , 2010, , .		0
56	Cell-cell adhesion force measurement using nano picker via nanorobotic manipulators inside ESEM. , 2010, , .		6
57	Evaluation of local stiffness distribution for biological organism by comb-nanoprobes. , 2010, , .		7
58	Local stiffness measurements of C. elegans by buckling nanoprobes inside an Environmental SEM. , 2009, , .		22
59	Local stiffness evaluation for alive C. elegans by Environmental-SEM nanorobotic manipulation system. , 2009, , .		2
60	Various local stiffness characterizations of single cells using buckling nanoneedles. , 2009, , .		1
61	Single cell penetration using nano-pipette by E-SEM nanorobotic manipulation system. , 2009, , .		6
62	In-situ single cell manipulation via nanorobotic manipulation system inside E-SEM. , 2009, , .		11
63	Buckling nanoneedle for characterizing single cells mechanics inside environmental SEM. , 2009, , .		1
64	Bringing the nanolaboratory inside electron microscopes. IEEE Nanotechnology Magazine, 2008, 2, 18-31.	0.9	37
65	<i>In Situ</i> Single Cell Mechanics Characterization of Yeast Cells Using Nanoneedles Inside Environmental SEM. IEEE Nanotechnology Magazine, 2008, 7, 607-616.	1.1	73
66	Single Evaluation of C. Elegans inside Environmental Scanning Electron Microscope. , 2008, , .		1
67	The Effects of Cell Sizes, Environmental Conditions, and Growth Phases on the Strength of Individual W303 Yeast Cells Inside ESEM. IEEE Transactions on Nanobioscience, 2008, 7, 185-193.	2.2	68
68	Methods to Measure Material Viscoelastic Properties using Sharp, Flat and Buckling Tips inside ESEM. , 2008, , .		4
69	A Study of the Spheroplast Observations for W303 Single Cells under Environmental-SEM. , 2008, , .		0
70	2P1-C20 Local Stiffness Measurement of Single Cell using Nanoprobes through ESEM-Nanomanipulator System. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2008, 2008, _2P1-C20_1-_2P1-C20_4.	0.0	0
71	In-situ single cell mechanical characterization of W303 Yeast cells inside Environmental-SEM. , 2007, , .		17
72	In-situ Single Cell Mechanics Characterization of W303 Yeast Cells using Nanoneedles inside Environmental-SEM. , 2007, , .		0

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73	Mechanical properties characterization of individual yeast cells using environment-SEM nanomanipulation system. , 2007, , .		13
74	Transient Stability Analysis of Power System with Six-Phase Converted Transmission Line. , 2006, , .		6
75	Microstrip Patch Antenna Array at 5.8 GHz for Point to Point Communication. , 2006, , .		19