Mohammad Abdolahad

List of Publications by Year in descending order

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623734 526287 52 831 14 27 citations g-index h-index papers 53 53 53 1392 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Real-time diagnosis of reactive oxygen species (ROS) in fresh sputum by electrochemical tracing; correlation between COVID-19 and viral-induced ROS in lung/respiratory epithelium during this pandemic. Biosensors and Bioelectronics, 2020, 165, 112435.	10.1	116
2	Spongy graphene electrode in electrochemical detection of leukemia at single-cell levels. Carbon, 2014, 79, 654-663.	10.3	105
3	A vertically aligned carbon nanotube-based impedance sensing biosensor for rapid and high sensitive detection of cancer cells. Lab on A Chip, 2012, 12, 1183.	6.0	82
4	Monitoring the spreading stage of lung cells by silicon nanowire electrical cell impedance sensor for cancer detection purposes. Biosensors and Bioelectronics, 2015, 68, 577-585.	10.1	42
5	Silicon nanowire based biosensing platform for electrochemical sensing of Mebendazole drug activity on breast cancer cells. Biosensors and Bioelectronics, 2016, 85, 363-370.	10.1	40
6	Nanoelectromechanical Chip (NELMEC) Combination of Nanoelectronics and Microfluidics to Diagnose Epithelial and Mesenchymal Circulating Tumor Cells from Leukocytes. Small, 2016, 12, 883-891.	10.0	39
7	Microneedleâ€Based Generation of Microbubbles in Cancer Tumors to Improve Ultrasoundâ€Assisted Drug Delivery. Advanced Healthcare Materials, 2019, 8, e1900613.	7.6	39
8	Silicon nanograss based impedance biosensor for label free detection of rare metastatic cells among primary cancerous colon cells, suitable for more accurate cancer staging. Biosensors and Bioelectronics, 2014, 59, 151-159.	10.1	36
9	Folic Acid Functionalized Vertically Aligned Carbon Nanotube (FA-VACNT) Electrodes for Cancer Sensing Applications. Journal of Materials Science and Technology, 2016, 32, 617-625.	10.7	27
10	Bioelectrical pathology of the breast; real-time diagnosis of malignancy by clinically calibrated impedance spectroscopy of freshly dissected tissue. Biosensors and Bioelectronics, 2020, 165, 112421.	10.1	22
11	Electrochemical approach for monitoring the effect of anti tubulin drugs on breast cancer cells based on silicon nanograss electrodes. Analytica Chimica Acta, 2016, 938, 72-81.	5.4	16
12	Metas-Chip precisely identifies presence of micrometastasis in live biopsy samples by label free approach. Nature Communications, 2017, 8, 2175.	12.8	16
13	Monitoring the effect of sonoporation on the cells using electrochemical approach. Ultrasonics Sonochemistry, 2018, 41, 619-625.	8.2	16
14	Distinguishment of populated metastatic cancer cells from primary ones based on their invasion to endothelial barrier by biosensor arrays fabricated on nanoroughened poly(methyl methacrylate). Biosensors and Bioelectronics, 2018, 118, 51-57.	10.1	14
15	A single-cell correlative nanoelectromechanosensing approach to detect cancerous transformation: monitoring the function of F-actin microfilaments in the modulation of the ion channel activity. Nanoscale, 2015, 7, 1879-1887.	5.6	13
16	Microfluidic device for label-free quantitation and distinction of bladder cancer cells from the blood cells using micro machined silicon based electrical approach; suitable in urinalysis assays. Journal of Pharmaceutical and Biomedical Analysis, 2017, 134, 36-42.	2.8	13
17	Bioelectronics of The Cellular Cytoskeleton: Monitoring Cytoskeletal Conductance Variation for Sensing Drug Resistance. ACS Sensors, 2019, 4, 353-362.	7.8	13
18	Carbon nanotube based dielectric spectroscopy of tumor secretion; electrochemical lipidomics for cancer diagnosis. Biosensors and Bioelectronics, 2019, 142, 111566.	10.1	11

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19	Electrochemical generation of microbubbles by carbon nanotube interdigital electrodes to increase the permeability and material uptakes of cancer cells. Drug Delivery, 2019, 26, 928-934.	5.7	11
20	A label-free graphene-based impedimetric biosensor for real-time tracing of the cytokine storm in blood serum; suitable for screening COVID-19 patients. RSC Advances, 2021, 11, 34503-34515.	3.6	11
21	Ultrasound assisted electrochemical distinction of normal and cancerous cells. Sensors and Actuators B: Chemical, 2018, 255, 1-7.	7.8	10
22	Electrically guided interventional radiology, in-vivo electrochemical tracing of suspicious lesions to breast cancer prior to core needle biopsy. Biosensors and Bioelectronics, 2020, 161, 112209.	10.1	10
23	Applying VHB acrylic elastomer as a cell culture and stretchable substrate. International Journal of Polymeric Materials and Polymeric Biomaterials, 2018, 67, 1096-1104.	3.4	9
24	Low frequency stimulation induces polarization-based capturing of normal, cancerous and white blood cells: a new separation method for circulating tumor cell enrichment or phenotypic cell sorting. Analyst, The, 2020, 145, 7636-7645.	3.5	9
25	Intraoperative pathologically-calibrated diagnosis of lymph nodes involved by breast cancer cells based on electrical impedance spectroscopy; a prospective diagnostic human model study. International Journal of Surgery, 2021, 96, 106166.	2.7	8
26	Microfluidic platform with integrated electrical actuator to enrich and locating atypical/cancer cells from liquid cytology samples. Sensors and Actuators B: Chemical, 2019, 297, 126733.	7.8	7
27	Electrochemical tracing of hypoxia glycolysis by carbon nanotube sensors, a new hallmark for intraoperative detection of suspicious margins to breast neoplasia. Bioengineering and Translational Medicine, 2022, 7, e10236.	7.1	7
28	Capture-free deactivation of CTCs in the bloodstream; a metastasis suppression method by electrostatic stimulation of the peripheral blood. Biosensors and Bioelectronics, 2021, 183, 113194.	10.1	7
29	Bioelectrical impedimetric sensor for single cell analysis based on nanoroughened quartz substrate; suitable for cancer therapeutic purposes. Journal of Pharmaceutical and Biomedical Analysis, 2017, 142, 315-323.	2.8	6
30	An electrochemical biosensor to distinguish between normal and cancer cells based on monitoring their acidosis using gold-coated silicon Nano-roughened electrode. Analytical Biochemistry, 2018, 561-562, 1-10.	2.4	6
31	The design and fabrication of nanoengineered platinum needles with laser welded carbon nanotubes (CNTs) for the electrochemical biosensing of cancer lymph nodes. Biomaterials Science, 2021, 9, 6214-6226.	5.4	6
32	Positive electrostatic therapy of metastatic tumors: selective induction of apoptosis in cancer cells by pure charges. Cancer Medicine, 2021, 10, 7475-7491.	2.8	6
33	Integration of Ni ₂ Si/Si Nanograss Heterojunction on n-MOSFET to Realize High-Sensitivity Phototransistors. IEEE Transactions on Electron Devices, 2014, 61, 3239-3244.	3.0	5
34	An electrical bio-chip to transfer and detect electromagnetic stimulation on the cells based on vertically aligned carbon nanotubes. Materials Science and Engineering C, 2017, 70, 681-688.	7.3	5
35	Stretch Induces Invasive Phenotypes in Breast Cells Due to Activation of Aerobicâ€Glycolysisâ€Related Pathways. Advanced Biology, 2019, 3, e1800294.	3.0	5
36	Cyclic voltammetric biosensing of cellular ionic secretion based on silicon nanowires to detect the effect of paclitaxel on breast normal and cancer cells. Microelectronic Engineering, 2021, 239-240, 111512.	2.4	5

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37	Label-free mechanoelectrical investigation of single cancer cells by dielectrophoretic-induced stretch assay. Sensors and Actuators B: Chemical, 2021, 346, 130409.	7.8	5
38	Healing Field: Using Alternating Electric Fields to Prevent Cytokine Storm by Suppressing Clonal Expansion of the Activated Lymphocytes in the Blood Sample of the COVID-19 Patients. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	4.1	5
39	Tracing the pH dependent activation of autophagy in cancer cells by silicon nanowire-based impedance biosensor. Journal of Pharmaceutical and Biomedical Analysis, 2018, 154, 158-165.	2.8	4
40	Acoustic wave based biosensor to study electroacoustic based detection of progressive (SW-48) colon cancer cells from primary (HT-29) cells. Sensors and Actuators A: Physical, 2015, 233, 169-175.	4.1	3
41	Nanoporous platinum needle for cancer tumor destruction by EChT and impedance-based intra-therapeutic monitoring. Nanoscale, 2020, 12, 22129-22139.	5.6	3
42	Real-time diagnosis of sentinel lymph nodes involved to breast cancer based on pH sensing through lipid synthesis of those cells. Bioscience Reports, 2020, 40, .	2.4	3
43	Electrochemical measuring of reactive oxygen species levels in the blood to detect ratio of high-density neutrophils, suitable to alarm presence of cancer in suspicious cases. Journal of Pharmaceutical and Biomedical Analysis, 2022, 209, 114488.	2.8	3
44	Human study on cancer diagnostic probe (CDP) for realâ€time excising of breast positive cavity side margins based on tracing hypoxia glycolysis; checking diagnostic accuracy in nonâ€neoadjuvant cases. Cancer Medicine, 2022, 11, 1630-1645.	2.8	3
45	Intraradiological pathologyâ€calibrated electrical impedance spectroscopy in the evaluation of excisionâ€required breast lesions. Medical Physics, 2022, 49, 2746-2760.	3.0	2
46	Effect of Post IORT Wound Fluid Secretion (PIWFS) on the Behavior of Breast Cancer Cells: Stimulator or Inhibitor; Report of an Experimental Study on Breast Cancer. Archives of Iranian Medicine, 2022, 25, 78-84.	0.6	2
47	The conformal silicon deposition on carbon nanotubes as enabled by hydrogenated carbon coatings for synthesis of carbon/silicon core/shell heterostructure photodiodes. Carbon, 2015, 87, 299-308.	10.3	1
48	Cancer Diagnosis: Nanoelectromechanical Chip (NELMEC) Combination of Nanoelectronics and Microfluidics to Diagnose Epithelial and Mesenchymal Circulating Tumor Cells from Leukocytes (Small 7/2016). Small, 2016, 12, 882-882.	10.0	1
49	Stretch-Induced Invasion: Stretch Induces Invasive Phenotypes in Breast Cells Due to Activation of Aerobic-Glycolysis-Related Pathways (Adv. Biosys. 7/2019). Advanced Biology, 2019, 3, 1970075.	3.0	1
50	An In Vitro Electric Field Exposure Device with Real-Time Cell Impedance Sensing. Iranian Journal of Science and Technology, Transaction A: Science, 2020, 44, 575-585.	1.5	1
51	Accuracy of cancer diagnostic probe (CDP) for intraâ€surgical checking of cavity side margins in neoadjuvant breast cancer cases; A human model study. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, , e2335.	2.3	1
52	Ultrasoundâ€Assisted Drug Delivery: Microneedleâ€Based Generation of Microbubbles in Cancer Tumors to Improve Ultrasoundâ€Assisted Drug Delivery (Adv. Healthcare Mater. 17/2019). Advanced Healthcare Materials, 2019, 8, 1970070.	7.6	0