

Mohammad Ali Khayamian

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

404
citations

10
h-index

20
g-index

33
ext. papers

483
ext. citations

7.9
avg, IF

3.48
L-index

#	Paper	IF	Citations
33	Spongy graphene electrode in electrochemical detection of leukemia at single-cell levels. <i>Carbon</i> , 2014 , 79, 654-663	10.4	87
32	A vertically aligned carbon nanotube-based impedance sensing biosensor for rapid and high sensitive detection of cancer cells. <i>Lab on A Chip</i> , 2012 , 12, 1183-90	7.2	74
31	Silicon nanoglass based impedance biosensor for label free detection of rare metastatic cells among primary cancerous colon cells, suitable for more accurate cancer staging. <i>Biosensors and Bioelectronics</i> , 2014 , 59, 151-9	11.8	32
30	Nanoelectromechanical Chip (NELMEC) Combination of Nanoelectronics and Microfluidics to Diagnose Epithelial and Mesenchymal Circulating Tumor Cells from Leukocytes. <i>Small</i> , 2016 , 12, 883-91	11	31
29	Silicon nanowire based biosensing platform for electrochemical sensing of Mebendazole drug activity on breast cancer cells. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 363-370	11.8	30
28	Microneedle-Based Generation of Microbubbles in Cancer Tumors to Improve Ultrasound-Assisted Drug Delivery. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900613	10.1	25
27	Folic Acid Functionalized Vertically Aligned Carbon Nanotube (FA-VACNT) Electrodes for Cancer Sensing Applications. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 617-625	9.1	23
26	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. <i>Nanoscale</i> , 2015 , 7, 1879-87	7.7	13
25	Metas-Chip precisely identifies presence of micrometastasis in live biopsy samples by label free approach. <i>Nature Communications</i> , 2017 , 8, 2175	17.4	12
24	Monitoring the effect of sonoporation on the cells using electrochemical approach. <i>Ultrasonics Sonochemistry</i> , 2018 , 41, 619-625	8.9	10
23	Bioelectronics of The Cellular Cytoskeleton: Monitoring Cytoskeletal Conductance Variation for Sensing Drug Resistance. <i>ACS Sensors</i> , 2019 , 4, 353-362	9.2	9
22	Ultrasound assisted electrochemical distinction of normal and cancerous cells. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1-7	8.5	9
21	Carbon nanotube based dielectric spectroscopy of tumor secretion; electrochemical lipidomics for cancer diagnosis. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111566	11.8	7
20	Bioelectrical pathology of the breast; real-time diagnosis of malignancy by clinically calibrated impedance spectroscopy of freshly dissected tissue. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112421	11.8	7
19	Electrochemical generation of microbubbles by carbon nanotube interdigital electrodes to increase the permeability and material uptakes of cancer cells. <i>Drug Delivery</i> , 2019 , 26, 928-934	7	6
18	Incorporation of asymmetric yield and hardening behaviour in axisymmetric elastoplastic problems. <i>Materials and Design</i> , 2016 , 99, 490-499	8.1	5
17	Applying VHB acrylic elastomer as a cell culture and stretchable substrate. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2018 , 67, 1096-1104	3	4

16	Microfluidic platform with integrated electrical actuator to enrich and locating atypical/cancer cells from liquid cytology samples. <i>Sensors and Actuators B: Chemical</i> , 2019 , 297, 126733	8.5	4
15	The design and fabrication of nanoengineered platinum needles with laser welded carbon nanotubes (CNTs) for the electrochemical biosensing of cancer lymph nodes. <i>Biomaterials Science</i> , 2021 , 9, 6214-6226	7.4	3
14	Stretch Induces Invasive Phenotypes in Breast Cells Due to Activation of Aerobic-Glycolysis-Related Pathways. <i>Advanced Biology</i> , 2019 , 3, e1800294	3.5	2
13	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. <i>Analyst, The</i> , 2020 , 145, 7636-7645	5	2
12	Electrochemical tracing of hypoxia glycolysis by carbon nanotube sensors, a new hallmark for intraoperative detection of suspicious margins to breast neoplasia.. <i>Bioengineering and Translational Medicine</i> , 2022 , 7, e10236	14.8	2
11	Capture-free deactivation of CTCs in the bloodstream; a metastasis suppression method by electrostatic stimulation of the peripheral blood. <i>Biosensors and Bioelectronics</i> , 2021 , 183, 113194	11.8	2
10	Cyclic voltammetric biosensing of cellular ionic secretion based on silicon nanowires to detect the effect of paclitaxel on breast normal and cancer cells. <i>Microelectronic Engineering</i> , 2021 , 239-240, 111512	2.5	2
9	Stretch-Induced Invasion: Stretch Induces Invasive Phenotypes in Breast Cells Due to Activation of Aerobic-Glycolysis-Related Pathways (Adv. Biosys. 7/2019). <i>Advanced Biology</i> , 2019 , 3, 1970075	3.5	1
8	Positive electrostatic therapy of metastatic tumors: selective induction of apoptosis in cancer cells by pure charges. <i>Cancer Medicine</i> , 2021 , 10, 7475-7491	4.8	1
7	Label-free mechano-electrical investigation of single cancer cells by dielectrophoretic-induced stretch assay. <i>Sensors and Actuators B: Chemical</i> , 2021 , 346, 130409	8.5	1
6	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.. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 209, 114488	3.5	0
5	Intraoperative pathologically-calibrated diagnosis of lymph nodes involved by breast cancer cells based on electrical impedance spectroscopy; a prospective diagnostic human model study. <i>International Journal of Surgery</i> , 2021 , 96, 106166	7.5	0
4	A label-free graphene-based impedimetric biosensor for real-time tracing of the cytokine storm in blood serum; suitable for screening COVID-19 patients.. <i>RSC Advances</i> , 2021 , 11, 34503-34515	3.7	0
3	Nanoporous platinum needle for cancer tumor destruction by EChT and impedance-based intra-therapeutic monitoring. <i>Nanoscale</i> , 2020 , 12, 22129-22139	7.7	0
2	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.. <i>Archives of Iranian Medicine</i> , 2022 , 25, 78-84	2.4	0
1	Ultrasound-Assisted Drug Delivery: Microneedle-Based Generation of Microbubbles in Cancer Tumors to Improve Ultrasound-Assisted Drug Delivery (Adv. Healthcare Mater. 17/2019). <i>Advanced Healthcare Materials</i> , 2019 , 8, 1970070	10.1	