

# Mohammad Ali Khayamian

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

579  
citations

758635

12  
h-index

642321

23  
g-index

33  
all docs

33  
docs citations

33  
times ranked

969  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spongy graphene electrode in electrochemical detection of leukemia at single-cell levels. <i>Carbon</i> , 2014, 79, 654-663.	5.4	105
2	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.	3.1	82
3	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.	5.3	40
4	Nanoelectromechanical Chip (NELMEC) Combination of Nanoelectronics and Microfluidics to Diagnose Epithelial and Mesenchymal Circulating Tumor Cells from Leukocytes. <i>Small</i> , 2016, 12, 883-891.	5.2	39
5	Microneedle-Based Generation of Microbubbles in Cancer Tumors to Improve Ultrasound-Assisted Drug Delivery. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900613.	3.9	39
6	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, 151-159.	5.3	36
7	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.	5.6	27
8	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.	5.3	22
9	Metas-Chip precisely identifies presence of micrometastasis in live biopsy samples by label free approach. <i>Nature Communications</i> , 2017, 8, 2175.	5.8	16
10	Monitoring the effect of sonoporation on the cells using electrochemical approach. <i>Ultrasonics Sonochemistry</i> , 2018, 41, 619-625.	3.8	16
11	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, 1879-1887.	2.8	13
12	Bioelectronics of The Cellular Cytoskeleton: Monitoring Cytoskeletal Conductance Variation for Sensing Drug Resistance. <i>ACS Sensors</i> , 2019, 4, 353-362.	4.0	13
13	Carbon nanotube based dielectric spectroscopy of tumor secretion; electrochemical lipidomics for cancer diagnosis. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111566.	5.3	11
14	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.	2.5	11
15	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.	1.7	11
16	Ultrasound assisted electrochemical distinction of normal and cancerous cells. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1-7.	4.0	10
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.	1.8	9
18	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</i> , The, 2020, 145, 7636-7645.	1.7	9

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19	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.	1.1	8
20	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.	4.0	7
21	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.	3.9	7
22	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.	5.3	7
23	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.	2.6	6
24	Positive electrostatic therapy of metastatic tumors: selective induction of apoptosis in cancer cells by pure charges. <i>Cancer Medicine</i> , 2021, 10, 7475-7491.	1.3	6
25	Incorporation of asymmetric yield and hardening behaviour in axisymmetric elastoplastic problems. <i>Materials and Design</i> , 2016, 99, 490-499.	3.3	5
26	Stretch Induces Invasive Phenotypes in Breast Cells Due to Activation of Aerobic-Glycolysis-Related Pathways. <i>Advanced Biology</i> , 2019, 3, e1800294.	3.0	5
27	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.	1.1	5
28	Label-free mechano-electrical investigation of single cancer cells by dielectrophoretic-induced stretch assay. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130409.	4.0	5
29	Nanoporous platinum needle for cancer tumor destruction by EChT and impedance-based intra-therapeutic monitoring. <i>Nanoscale</i> , 2020, 12, 22129-22139.	2.8	3
30	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> , 2022, 209, 114488.	1.4	3
31	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.	0.2	2
32	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.	3.0	1
33	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.	3.9	0