

Mahmoud Labib

List of Publications by Year in descending order

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61
papers

3,645
citations

117625
34
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133252
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61
all docs

61
docs citations

61
times ranked

5094
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Methods for the Analysis of Clinically Relevant Biomolecules. Chemical Reviews, 2016, 116, 9001-9090.	47.7	702
2	Three-Mode Electrochemical Sensing of Ultralow MicroRNA Levels. Journal of the American Chemical Society, 2013, 135, 3027-3038.	13.7	207
3	Single-cell analysis targeting the proteome. Nature Reviews Chemistry, 2020, 4, 143-158.	30.2	157
4	Beyond the Capture of Circulating Tumor Cells: Next-Generation Devices and Materials. Angewandte Chemie - International Edition, 2016, 55, 1252-1265.	13.8	144
5	Aptamer-Based Viability Impedimetric Sensor for Bacteria. Analytical Chemistry, 2012, 84, 8966-8969.	6.5	131
6	Ferrocene-peptido conjugates: From synthesis to sensory applications. Dalton Transactions, 2011, 40, 7264.	3.3	119
7	Aptamer and Antisense-Mediated Two-Dimensional Isolation of Specific Cancer Cell Subpopulations. Journal of the American Chemical Society, 2016, 138, 2476-2479.	13.7	119
8	Detection of pathogenic bacteria via nanomaterials-modified aptasensors. Biosensors and Bioelectronics, 2020, 150, 111933.	10.1	118
9	Is the Reactivity of M(II)-Arene Complexes of 3-Hydroxy-2(1 <i>H</i>)-pyridones to Biomolecules the Anticancer Activity Determining Parameter?. Inorganic Chemistry, 2010, 49, 7953-7963.	4.0	101
10	Ultrasensitive Norovirus Detection Using DNA Aptasensor Technology. PLoS ONE, 2013, 8, e79087.	2.5	94
11	Aptamer-Based Viability Impedimetric Sensor for Viruses. Analytical Chemistry, 2012, 84, 1813-1816.	6.5	86
12	Profiling Functional and Biochemical Phenotypes of Circulating Tumor Cells Using a Two-Dimensional Sorting Device. Angewandte Chemie - International Edition, 2017, 56, 163-168.	13.8	85
13	Aptamer-Based Impedimetric Sensor for Bacterial Typing. Analytical Chemistry, 2012, 84, 8114-8117.	6.5	81
14	Four-Way Junction Formation Promoting Ultrasensitive Electrochemical Detection of MicroRNA. Analytical Chemistry, 2013, 85, 9422-9427.	6.5	76
15	Single-cell mRNA cytometry via sequence-specific nanoparticle clustering and trapping. Nature Chemistry, 2018, 10, 489-495.	13.6	68
16	Electrochemical sensing of microRNAs: Avenues and paradigms. Biosensors and Bioelectronics, 2015, 68, 83-94.	10.1	64
17	A capacitive immunosensor for detection of cholera toxin. Analytica Chimica Acta, 2009, 634, 255-261.	5.4	63
18	Three-Dimensional Nanostructured Architectures Enable Efficient Neural Differentiation of Mesenchymal Stem Cells via Mechanotransduction. Nano Letters, 2018, 18, 7188-7193.	9.1	60

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19	Nanoparticle-Mediated Capture and Electrochemical Detection of Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Analytical Chemistry</i> , 2019, 91, 2847-2853.	6.5	60
20	A novel competitive capacitive glucose biosensor based on concanavalin A-labeled nanogold colloids assembled on a polytyramine-modified gold electrode. <i>Analytica Chimica Acta</i> , 2010, 659, 194-200.	5.4	59
21	High-throughput genome-wide phenotypic screening via immunomagnetic cell sorting. <i>Nature Biomedical Engineering</i> , 2019, 3, 796-805.	22.5	53
22	Detection of <i>Cryptosporidium parvum</i> Oocysts on Fresh Produce Using DNA Aptamers. <i>PLoS ONE</i> , 2015, 10, e0137455.	2.5	52
23	A capacitive biosensor for detection of staphylococcal enterotoxin B. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1539-1544.	3.7	50
24	A Hierarchical 3D Nanostructured Microfluidic Device for Sensitive Detection of Pathogenic Bacteria. <i>Small</i> , 2018, 14, e1801893.	10.0	47
25	Electrochemical Sensing of Aptamer-Facilitated Virus Immunoshielding. <i>Analytical Chemistry</i> , 2012, 84, 1677-1686.	6.5	43
26	Towards an early diagnosis of HIV infection: an electrochemical approach for detection of HIV-1 reverse transcriptase enzyme. <i>Analyst</i> , 2011, 136, 708-715.	3.5	40
27	Enzymatically modified peptide surfaces: towards general electrochemical sensor platform for protein kinase catalyzed phosphorylations. <i>Analyst</i> , 2011, 136, 107-112.	3.5	40
28	Potential of Responsive Surfaces for Manipulation of Cell Adhesion, Release, and Differentiation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14519-14523.	13.8	40
29	Tracking the expression of therapeutic protein targets in rare cells by antibody-mediated nanoparticle labelling and magnetic sorting. <i>Nature Biomedical Engineering</i> , 2021, 5, 41-52.	22.5	40
30	Electrochemical analysis of HIV-1 reverse transcriptase serum level: Exploiting protein binding to a functionalized nanostructured surface. <i>Talanta</i> , 2011, 85, 770-778.	5.5	38
31	Protein Electrocatalysis for Direct Sensing of Circulating MicroRNAs. <i>Analytical Chemistry</i> , 2015, 87, 1395-1403.	6.5	38
32	Isolation of Phenotypically Distinct Cancer Cells Using Nanoparticle-Mediated Sorting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20435-20443.	8.0	38
33	A multipurpose capacitive biosensor for assay and quality control of human immunoglobulin G. <i>Biotechnology and Bioengineering</i> , 2009, 104, 312-320.	3.3	36
34	Probing the Role of the Linker in Ferrocene-ATP Conjugates: Monitoring Protein Kinase Catalyzed Phosphorylations Electrochemically. <i>Chemistry - A European Journal</i> , 2011, 17, 6744-6752.	3.3	36
35	Circulating tumor cell profiling for precision oncology. <i>Molecular Oncology</i> , 2021, 15, 1622-1646.	4.6	33
36	Anti-Fab Aptamers for Shielding Virus from Neutralizing Antibodies. <i>Journal of the American Chemical Society</i> , 2012, 134, 17168-17177.	13.7	31

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37	Electrochemical Differentiation of Epitope-Specific Aptamers. <i>Analytical Chemistry</i> , 2012, 84, 2548-2556.	6.5	31
38	Efficient recovery of potent tumour-infiltrating lymphocytes through quantitative immunomagnetic cell sorting. <i>Nature Biomedical Engineering</i> , 2022, 6, 108-117.	22.5	31
39	Phenotypic Profiling of Circulating Tumor Cells in Metastatic Prostate Cancer Patients Using Nanoparticle-Mediated Ranking. <i>Analytical Chemistry</i> , 2019, 91, 9348-9355.	6.5	29
40	Ultrasensitive and rapid quantification of rare tumorigenic stem cells in hPSC-derived cardiomyocyte populations. <i>Science Advances</i> , 2020, 6, eaay7629.	10.3	28
41	Electrochemical investigations of sarcoma-related protein kinase inhibition. <i>Electrochimica Acta</i> , 2011, 56, 10676-10682.	5.2	22
42	A bioorganometallic approach for rapid electrochemical analysis of human immunodeficiency virus type-1 reverse transcriptase in serum. <i>Electrochimica Acta</i> , 2011, 56, 5122-5128.	5.2	22
43	Switchable aptamers for biosensing and bioseparation of viruses (SwAps-V). <i>Biosensors and Bioelectronics</i> , 2015, 67, 280-286.	10.1	21
44	Nanostructured Architectures for Biomolecular Detection inside and outside the Cell. <i>Advanced Functional Materials</i> , 2020, 30, 1907701.	14.9	19
45	Magnetic Ranking Cytometry: Profiling Rare Cells at the Single-Cell Level. <i>Accounts of Chemical Research</i> , 2020, 53, 1445-1457.	15.6	18
46	Competitive capacitive biosensing technique (CCBT): A novel technique for monitoring low molecular mass analytes using glucose assay as a model study. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 1217-1224.	3.7	17
47	Multifunctional electrochemical aptasensor for aptamer clones screening, virus quantitation in blood and viability assessment. <i>Analyst</i> , 2013, 138, 1865.	3.5	17
48	Nanostructured Architectures Promote the Mesenchymalâ€“Epithelial Transition for Invasive Cells. <i>ACS Nano</i> , 2020, 14, 5324-5336.	14.6	17
49	PillarX: A Microfluidic Device to Profile Circulating Tumor Cell Clusters Based on Geometry, Deformability, and Epithelial State. <i>Small</i> , 2022, 18, e2106097.	10.0	17
50	On chip electrochemical detection of sarcoma protein kinase and HIV-1 reverse transcriptase. <i>Talanta</i> , 2011, 85, 2430-2436.	5.5	15
51	Electrochemical Aptasensors for Microbial and Viral Pathogens. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2013, 140, 155-181.	1.1	13
52	Functionalization of Ruthenium(II)(η^6 - <i>p</i> -cymene)(3-hydroxy-2-pyridone) Complexes with (Thio)Morpholine: Synthesis and Bioanalytical Studies. <i>ChemPlusChem</i> , 2017, 82, 841-847.	2.8	13
53	Profilierung zirkulierender Tumorzellen mit Apparaturen und Materialien der nÄchsten Generation. <i>Angewandte Chemie</i> , 2016, 128, 1270-1284.	2.0	12
54	Synthesis and Surface Investigations of N-Substituted 2,5-Dithio-7-azabicyclo[2.2.1]heptanes on Gold Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7886-7896.	3.1	10

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55	Single-Cell Tumbling Enables High-Resolution Size Profiling of Retinal Stem Cells. ACS Applied Materials & Interfaces, 2018, 10, 34811-34816.	8.0	10
56	Peptide-Functionalized Nanostructured Microarchitectures Enable Rapid Mechanotransductive Differentiation. ACS Applied Materials & Interfaces, 2019, 11, 41030-41037.	8.0	10
57	Profiling Functional and Biochemical Phenotypes of Circulating Tumor Cells Using a Twoâ€Dimensional Sorting Device. Angewandte Chemie, 2017, 129, 169-174.	2.0	8
58	A liquid biopsy for detecting circulating mesothelial precursor cells: A new biomarker for diagnosis and prognosis in mesothelioma. EBioMedicine, 2020, 61, 103031.	6.1	7
59	Potentialâ€Responsive Surfaces for Manipulation of Cell Adhesion, Release, and Differentiation. Angewandte Chemie, 2019, 131, 14661-14665.	2.0	6
60	A microfluidic platform enables comprehensive gene expression profiling of mouse retinal stem cells. Lab on A Chip, 2021, 21, 4464-4476.	6.0	3
61	Pathogenic Bacteria Detection: A Hierarchical 3D Nanostructured Microfluidic Device for Sensitive Detection of Pathogenic Bacteria (Small 35/2018). Small, 2018, 14, 1870159.	10.0	0