

Mahmoud Labib

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,645
citations

134610

34
h-index

150775

59
g-index

61
all docs

61
docs citations

61
times ranked

5752
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Electrochemical Methods for the Analysis of Clinically Relevant Biomolecules. <i>Chemical Reviews</i> , 2016, 116, 9001-9090. | 23.0 | 702 |
| 2 | Three-Mode Electrochemical Sensing of Ultralow MicroRNA Levels. <i>Journal of the American Chemical Society</i> , 2013, 135, 3027-3038. | 6.6 | 207 |
| 3 | Single-cell analysis targeting the proteome. <i>Nature Reviews Chemistry</i> , 2020, 4, 143-158. | 13.8 | 157 |
| 4 | Beyond the Capture of Circulating Tumor Cells: Next-Generation Devices and Materials. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1252-1265. | 7.2 | 144 |
| 5 | Aptamer-Based Viability Impedimetric Sensor for Bacteria. <i>Analytical Chemistry</i> , 2012, 84, 8966-8969. | 3.2 | 131 |
| 6 | Ferrocene-peptido conjugates: From synthesis to sensory applications. <i>Dalton Transactions</i> , 2011, 40, 7264. | 1.6 | 119 |
| 7 | Aptamer and Antisense-Mediated Two-Dimensional Isolation of Specific Cancer Cell Subpopulations. <i>Journal of the American Chemical Society</i> , 2016, 138, 2476-2479. | 6.6 | 119 |
| 8 | Detection of pathogenic bacteria via nanomaterials-modified aptasensors. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111933. | 5.3 | 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?. <i>Inorganic Chemistry</i> , 2010, 49, 7953-7963. | 1.9 | 101 |
| 10 | Ultrasensitive Norovirus Detection Using DNA Aptasensor Technology. <i>PLoS ONE</i> , 2013, 8, e79087. | 1.1 | 94 |
| 11 | Aptamer-Based Viability Impedimetric Sensor for Viruses. <i>Analytical Chemistry</i> , 2012, 84, 1813-1816. | 3.2 | 86 |
| 12 | Profiling Functional and Biochemical Phenotypes of Circulating Tumor Cells Using a Two-Dimensional Sorting Device. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 163-168. | 7.2 | 85 |
| 13 | Aptamer-Based Impedimetric Sensor for Bacterial Typing. <i>Analytical Chemistry</i> , 2012, 84, 8114-8117. | 3.2 | 81 |
| 14 | Four-Way Junction Formation Promoting Ultrasensitive Electrochemical Detection of MicroRNA. <i>Analytical Chemistry</i> , 2013, 85, 9422-9427. | 3.2 | 76 |
| 15 | Single-cell mRNA cytometry via sequence-specific nanoparticle clustering and trapping. <i>Nature Chemistry</i> , 2018, 10, 489-495. | 6.6 | 68 |
| 16 | Electrochemical sensing of microRNAs: Avenues and paradigms. <i>Biosensors and Bioelectronics</i> , 2015, 68, 83-94. | 5.3 | 64 |
| 17 | A capacitive immunosensor for detection of cholera toxin. <i>Analytica Chimica Acta</i> , 2009, 634, 255-261. | 2.6 | 63 |
| 18 | Three-Dimensional Nanostructured Architectures Enable Efficient Neural Differentiation of Mesenchymal Stem Cells via Mechanotransduction. <i>Nano Letters</i> , 2018, 18, 7188-7193. | 4.5 | 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. | 3.2 | 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. | 2.6 | 59 |
| 21 | High-throughput genome-wide phenotypic screening via immunomagnetic cell sorting. <i>Nature Biomedical Engineering</i> , 2019, 3, 796-805. | 11.6 | 53 |
| 22 | Detection of <i>Cryptosporidium parvum</i> Oocysts on Fresh Produce Using DNA Aptamers. <i>PLoS ONE</i> , 2015, 10, e0137455. | 1.1 | 52 |
| 23 | A capacitive biosensor for detection of staphylococcal enterotoxin B. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1539-1544. | 1.9 | 50 |
| 24 | A Hierarchical 3D Nanostructured Microfluidic Device for Sensitive Detection of Pathogenic Bacteria. <i>Small</i> , 2018, 14, e1801893. | 5.2 | 47 |
| 25 | Electrochemical Sensing of Aptamer-Facilitated Virus Immunoshielding. <i>Analytical Chemistry</i> , 2012, 84, 1677-1686. | 3.2 | 43 |
| 26 | Towards an early diagnosis of HIV infection: an electrochemical approach for detection of HIV-1 reverse transcriptase enzyme. <i>Analyst</i> , The, 2011, 136, 708-715. | 1.7 | 40 |
| 27 | Enzymatically modified peptide surfaces: towards general electrochemical sensor platform for protein kinase catalyzed phosphorylations. <i>Analyst</i> , The, 2011, 136, 107-112. | 1.7 | 40 |
| 28 | Potential-Responsive Surfaces for Manipulation of Cell Adhesion, Release, and Differentiation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14519-14523. | 7.2 | 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. | 11.6 | 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. | 2.9 | 38 |
| 31 | Protein Electrocatalysis for Direct Sensing of Circulating MicroRNAs. <i>Analytical Chemistry</i> , 2015, 87, 1395-1403. | 3.2 | 38 |
| 32 | Isolation of Phenotypically Distinct Cancer Cells Using Nanoparticle-Mediated Sorting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20435-20443. | 4.0 | 38 |
| 33 | A multipurpose capacitive biosensor for assay and quality control of human immunoglobulin G. <i>Biotechnology and Bioengineering</i> , 2009, 104, 312-320. | 1.7 | 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. | 1.7 | 36 |
| 35 | Circulating tumor cell profiling for precision oncology. <i>Molecular Oncology</i> , 2021, 15, 1622-1646. | 2.1 | 33 |
| 36 | Anti-Fab Aptamers for Shielding Virus from Neutralizing Antibodies. <i>Journal of the American Chemical Society</i> , 2012, 134, 17168-17177. | 6.6 | 31 |

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|----|--|------|-----------|
| 37 | Electrochemical Differentiation of Epitope-Specific Aptamers. <i>Analytical Chemistry</i> , 2012, 84, 2548-2556. | 3.2 | 31 |
| 38 | Efficient recovery of potent tumour-infiltrating lymphocytes through quantitative immunomagnetic cell sorting. <i>Nature Biomedical Engineering</i> , 2022, 6, 108-117. | 11.6 | 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. | 3.2 | 29 |
| 40 | Ultrasensitive and rapid quantification of rare tumorigenic stem cells in hPSC-derived cardiomyocyte populations. <i>Science Advances</i> , 2020, 6, eaay7629. | 4.7 | 28 |
| 41 | Electrochemical investigations of sarcoma-related protein kinase inhibition. <i>Electrochimica Acta</i> , 2011, 56, 10676-10682. | 2.6 | 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. | 2.6 | 22 |
| 43 | Switchable aptamers for biosensing and bioseparation of viruses (SwAps-V). <i>Biosensors and Bioelectronics</i> , 2015, 67, 280-286. | 5.3 | 21 |
| 44 | Nanostructured Architectures for Biomolecular Detection inside and outside the Cell. <i>Advanced Functional Materials</i> , 2020, 30, 1907701. | 7.8 | 19 |
| 45 | Magnetic Ranking Cytometry: Profiling Rare Cells at the Single-Cell Level. <i>Accounts of Chemical Research</i> , 2020, 53, 1445-1457. | 7.6 | 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. | 1.9 | 17 |
| 47 | Multifunctional electrochemical aptasensor for aptamer clones screening, virus quantitation in blood and viability assessment. <i>Analyst</i> , 2013, 138, 1865. | 1.7 | 17 |
| 48 | Nanostructured Architectures Promote the Mesenchymal to Epithelial Transition for Invasive Cells. <i>ACS Nano</i> , 2020, 14, 5324-5336. | 7.3 | 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. | 5.2 | 17 |
| 50 | On chip electrochemical detection of sarcoma protein kinase and HIV-1 reverse transcriptase. <i>Talanta</i> , 2011, 85, 2430-2436. | 2.9 | 15 |
| 51 | Electrochemical Aptasensors for Microbial and Viral Pathogens. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2013, 140, 155-181. | 0.6 | 13 |
| 52 | Functionalization of Ruthenium(II) (η^6 -cymene)(3-hydroxy-2-pyridone) Complexes with (Thio)Morpholine: Synthesis and Bioanalytical Studies. <i>ChemPlusChem</i> , 2017, 82, 841-847. | 1.3 | 13 |
| 53 | Profilierung zirkulierender Tumorzellen mit Apparaturen und Materialien der nÄchsten Generation. <i>Angewandte Chemie</i> , 2016, 128, 1270-1284. | 1.6 | 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. | 1.5 | 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. | 4.0 | 10 |
| 56 | Peptide-Functionalized Nanostructured Microarchitectures Enable Rapid Mechanotransductive Differentiation. ACS Applied Materials & Interfaces, 2019, 11, 41030-41037. | 4.0 | 10 |
| 57 | Profiling Functional and Biochemical Phenotypes of Circulating Tumor Cells Using a Twoâ€­Dimensional Sorting Device. Angewandte Chemie, 2017, 129, 169-174. | 1.6 | 8 |
| 58 | A liquid biopsy for detecting circulating mesothelial precursor cells: A new biomarker for diagnosis and prognosis in mesothelioma. EBioMedicine, 2020, 61, 103031. | 2.7 | 7 |
| 59 | Potentialâ€­Responsive Surfaces for Manipulation of Cell Adhesion, Release, and Differentiation. Angewandte Chemie, 2019, 131, 14661-14665. | 1.6 | 6 |
| 60 | A microfluidic platform enables comprehensive gene expression profiling of mouse retinal stem cells. Lab on A Chip, 2021, 21, 4464-4476. | 3.1 | 3 |
| 61 | Pathogenic Bacteria Detection: A Hierarchical 3D Nanostructured Microfluidic Device for Sensitive Detection of Pathogenic Bacteria (Small 35/2018). Small, 2018, 14, 1870159. | 5.2 | 0 |