

# Mohtashim Hassan Shamsi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5011683/publications.pdf>

Version: 2024-02-01

28  
papers

1,091  
citations

516710

16  
h-index

526287

27  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1584  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemistry, biosensors and microfluidics: a convergence of fields. <i>Chemical Society Reviews</i> , 2015, 44, 5320-5340.	38.1	279
2	A digital microfluidic electrochemical immunoassay. <i>Lab on A Chip</i> , 2014, 14, 547-554.	6.0	106
3	Interactions of Metal Ions with DNA and Some Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013, 23, 4-23.	3.7	89
4	The first biopolymer-wrapped non-carbon nanotubes. <i>Nanotechnology</i> , 2008, 19, 075604.	2.6	77
5	Biosensors-on-chip: a topical review. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 083001.	2.6	75
6	Electrochemiluminescence on digital microfluidics for microRNA analysis. <i>Biosensors and Bioelectronics</i> , 2016, 77, 845-852.	10.1	69
7	Correlating dynamical mechanical properties with temperature and clay composition of polymer-clay nanocomposites. <i>Computational Materials Science</i> , 2009, 45, 257-265.	3.0	48
8	Integrated Digital Microfluidic Platform for Voltammetric Analysis. <i>Analytical Chemistry</i> , 2013, 85, 8809-8816.	6.5	48
9	The effects of oligonucleotide overhangs on the surface hybridization in DNA films: an impedance study. <i>Analyst, The</i> , 2011, 136, 3107.	3.5	29
10	Investigation of the Utility of Complementary Electrochemical Detection Techniques to Examine the in Vitro Affinity of Bacterial Flagellins for a Toll-Like Receptor 5 Biosensor. <i>Analytical Chemistry</i> , 2015, 87, 4218-4224.	6.5	29
11	Desktop Fabrication of Lab-On-Chip Devices on Flexible Substrates: A Brief Review. <i>Micromachines</i> , 2020, 11, 126.	2.9	27
12	Probing nucleobase mismatch variations by electrochemical techniques: exploring the effects of position and nature of the single-nucleotide mismatch. <i>Analyst, The</i> , 2010, 135, 2280.	3.5	25
13	Scanning positional variations in single-nucleotide polymorphism of DNA: an electrochemical study. <i>Analyst, The</i> , 2012, 137, 4220.	3.5	23
14	A microfluidic method for dopamine uptake measurements in dopaminergic neurons. <i>Lab on A Chip</i> , 2016, 16, 543-552.	6.0	23
15	Plasma-modified halloysite nanocomposites: effect of plasma modification on the structure and dynamic mechanical properties of halloysite-polystyrene nanocomposites. <i>Polymer International</i> , 2010, 59, 1492-1498.	3.1	21
16	Electrochemical identification of artificial oligonucleotides related to bovine species. Potential for identification of species based on mismatches in the mitochondrial cytochrome C1 oxidase gene. <i>Analyst, The</i> , 2011, 136, 4724.	3.5	16
17	Label-free Electrochemical Detection of CGG Repeats on Inkjet Printable 2D Layers of MoS <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 52156-52165.	8.0	15
18	An unexpected use of ferrocene. A scanning electrochemical microscopy study of a toll-like receptor array and its interaction with E. coli. <i>Chemical Communications</i> , 2017, 53, 2946-2949.	4.1	14

#	ARTICLE	IF	CITATIONS
19	Hand-Fabricated CNT/AgNPs Electrodes using Wax-on-Plastic Platforms for Electro-Immunosensing Application. <i>Scientific Reports</i> , 2019, 9, 6131.	3.3	13
20	Wax patterned microwells for stem cell fate study. <i>RSC Advances</i> , 2016, 6, 104919-104924.	3.6	12
21	Electrochemical signature of mismatch in overhang DNA films: a scanning electrochemical microscopic study. <i>Analyst</i> , The, 2013, 138, 3538.	3.5	10
22	Evolution of wax-on-plastic microfluidics for sub-microliter flow dynamics and its application in distance-based assay. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	9
23	Characterization and application of fluidic properties of trinucleotide repeat sequences by wax-on-plastic microfluidics. <i>Journal of Materials Chemistry B</i> , 2020, 8, 743-751.	5.8	9
24	Unique sequence-dependent properties of trinucleotide repeat monolayers: electrochemical, electrical, and topographic characterization. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5225-5233.	5.8	7
25	Novel probes for label-free detection of neurodegenerative GGGCC repeats associated with amyotrophic lateral sclerosis. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6995-7003.	3.7	6
26	Sequence-Independent DNA Adsorption on Few-Layered Oxygen-Functionalized Graphene Electrodes: An Electrochemical Study for Biosensing Application. <i>Biosensors</i> , 2021, 11, 273.	4.7	6
27	DNA interfaces with dimensional materials for biomedical applications. <i>RSC Advances</i> , 2021, 11, 28332-28341.	3.6	5
28	PNA microprobe for label-free detection of expanded trinucleotide repeats. <i>RSC Advances</i> , 2022, 12, 7757-7761.	3.6	1