

# Hadar Ben-Yoav

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,097  
citations

361413

20  
h-index

434195

31  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1401  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chitosan to Connect Biology to Electronics: Fabricating the Bio-Device Interface and Communicating Across This Interface. <i>Polymers</i> , 2015, 7, 1-46.	4.5	87
2	A whole cell electrochemical biosensor for water genotoxicity bio-detection. <i>Electrochimica Acta</i> , 2009, 54, 6113-6118.	5.2	84
3	Electronic modulation of biochemical signal generation. <i>Nature Nanotechnology</i> , 2014, 9, 605-610.	31.5	52
4	Bacterial genotoxicity bioreporters. <i>Microbial Biotechnology</i> , 2010, 3, 412-427.	4.2	51
5	An electrochemical impedance model for integrated bacterial biofilms. <i>Electrochimica Acta</i> , 2011, 56, 7780-7786.	5.2	51
6	Effect of electrical energy on the efficacy of biofilm treatment using the bioelectric effect. <i>Npj Biofilms and Microbiomes</i> , 2015, 1, 15016.	6.4	48
7	A microfluidic-based electrochemical biochip for label-free diffusion-restricted DNA hybridization analysis. <i>Biosensors and Bioelectronics</i> , 2012, 38, 114-120.	10.1	47
8	Whole-cell biochips for bio-sensing: integration of live cells and inanimate surfaces. <i>Critical Reviews in Biotechnology</i> , 2011, 31, 337-353.	9.0	45
9	A controlled microfluidic electrochemical lab-on-a-chip for label-free diffusion-restricted DNA hybridization analysis. <i>Biosensors and Bioelectronics</i> , 2015, 64, 579-585.	10.1	42
10	Portable low-cost open-source wireless spectrophotometer for fast and reliable measurements. <i>HardwareX</i> , 2020, 7, e00108.	2.2	42
11	Redox cycling-based amplifying electrochemical sensor for in situ clozapine antipsychotic treatment monitoring. <i>Electrochimica Acta</i> , 2014, 130, 497-503.	5.2	36
12	The effect of loading carbon nanotubes onto chitosan films on electrochemical dopamine sensing in the presence of biological interference. <i>Talanta</i> , 2018, 181, 57-64.	5.5	34
13	Selective deposition of nanostructured ruthenium oxide using Tobacco mosaic virus for micro-supercapacitors in solid Nafion electrolyte. <i>Journal of Power Sources</i> , 2015, 293, 649-656.	7.8	32
14	Electrochemical Study of the Catechol-Modified Chitosan System for Clozapine Treatment Monitoring. <i>Langmuir</i> , 2014, 30, 14686-14693.	3.5	31
15	Microbial genotoxicity bioreporters based on <i>sulA</i> activation. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3013-3024.	3.7	30
16	Blood Draw Barriers for Treatment with Clozapine and Development of a Point-of-Care Monitoring Device. <i>Clinical Schizophrenia and Related Psychoses</i> , 2018, 12, 23-30.	1.4	30
17	Towards toxicity detection using a lab-on-chip based on the integration of MOEMS and whole-cell sensors. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1631-1636.	10.1	29
18	Optical modeling of bioluminescence in whole cell biosensors. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1969-1973.	10.1	24

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19	Programmable "Semismart" Sensor: Relevance to Monitoring Antipsychotics. <i>Advanced Functional Materials</i> , 2015, 25, 2156-2165.	14.9	23
20	Probing antibody surface density and analyte antigen incubation time as dominant parameters influencing the antibody-antigen recognition events of a non-faradaic and diffusion-restricted electrochemical immunosensor. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 1709-1717.	3.7	23
21	Partially Functional Electrode Modifications for Rapid Detection of Dopamine in Urine. <i>Advanced Functional Materials</i> , 2021, 31, 2004146.	14.9	22
22	An Electrochemical Micro-System for Clozapine Antipsychotic Treatment Monitoring. <i>Electrochimica Acta</i> , 2015, 163, 260-270.	5.2	17
23	Evaluation of chrono-amperometric signal detection for the analysis of genotoxicity by a whole cell biosensor. <i>Analytica Chimica Acta</i> , 2010, 659, 122-128.	5.4	16
24	Fusing Sensor Paradigms to Acquire Chemical Information: An Integrative Role for Smart Biopolymeric Hydrogels. <i>Advanced Healthcare Materials</i> , 2016, 5, 2595-2616.	7.6	16
25	A reduced-graphene oxide-modified microelectrode for a repeatable detection of antipsychotic clozapine using microliters-volumes of whole blood. <i>Talanta</i> , 2020, 209, 120560.	5.5	16
26	Hydrodynamic focusing for microfluidic impedance cytometry: a system integration study. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	14
27	A Chitosan-Carbon Nanotube-Modified Microelectrode for In Situ Detection of Blood Levels of the Antipsychotic Clozapine in a Finger-Pricked Sample Volume. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900462.	7.6	14
28	Optical and Electrical Interfacing Technologies for Living Cell Bio-Chips. <i>Current Pharmaceutical Biotechnology</i> , 2010, 11, 376-383.	1.6	11
29	Bacterial biofilm-based water toxicity sensor. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 366-371.	7.8	10
30	Modified working electrodes for electrochemical whole-cell microchips. <i>Electrochimica Acta</i> , 2012, 82, 109-114.	5.2	10
31	Multidimensional Mapping Method Using an Arrayed Sensing System for Cross-Reactivity Screening. <i>PLoS ONE</i> , 2015, 10, e0116310.	2.5	10
32	Functional modeling of electrochemical whole-cell biosensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 479-485.	7.8	9
33	The interplay of electrode- and bio-materials in a redox-cycling-based clozapine sensor. <i>Electrochemistry Communications</i> , 2017, 79, 33-36.	4.7	9
34	Microfluidic channel sensory system for electro-addressing cell location, determining confluency, and quantifying a general number of cells. <i>Scientific Reports</i> , 2022, 12, 3248.	3.3	9
35	Use of some cost-effective technologies for a routine clinical pathology laboratory. <i>Lab on A Chip</i> , 2021, 21, 4330-4351.	6.0	8
36	Electrochemical Determination of Hydroxyurea in a Complex Biological Matrix Using MoS <sub>2</sub> -Modified Electrodes and Chemometrics. <i>Biomedicines</i> , 2021, 9, 6.	3.2	8

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37	Molecular processes in an electrochemical clozapine sensor. <i>Biointerphases</i> , 2017, 12, 02B401.	1.6	7
38	Signal amelioration of electrophoretically deposited whole-cell biosensors using external electric fields. <i>Electrochimica Acta</i> , 2011, 56, 9666-9672.	5.2	6
39	The Binding Effect of Proteins on Medications and Its Impact on Electrochemical Sensing: Antipsychotic Clozapine as a Case Study. <i>Pharmaceuticals</i> , 2017, 10, 69.	3.8	6
40	An integrated electrochemical microsystem for real-time treatment monitoring of clozapine in microliter volume samples from schizophrenia patients. <i>Electrochemistry Communications</i> , 2020, 120, 106850.	4.7	6
41	Intelligent Multi-Electrode Arrays as the Next Generation of Electrochemical Biosensors for Real-Time Analysis of Neurotransmitters. , 2018, , .		4
42	A platinum black-modified microelectrode for in situ olanzapine detection in microliter volumes of undiluted serum. <i>Journal of Neural Transmission</i> , 2020, 127, 291-299.	2.8	4
43	Enzymatically attenuated in situ release of silver ions to combat bacterial biofilms: a feasibility study. <i>Journal of Drug Delivery Science and Technology</i> , 2008, 18, 25-29.	3.0	3
44	VLSI universal signal conditioning circuit for electrochemical and bioluminescent sensors. , 2010, , .		3
45	Microfluidic Arrayed Lab-On-A-Chip for Electrochemical Capacitive Detection of DNA Hybridization Events. <i>Methods in Molecular Biology</i> , 2017, 1572, 71-88.	0.9	3
46	Diffusion- and Chemometric-Based Separation of Complex Electrochemical Signals That Originated from Multiple Redox-Active Molecules. <i>Polymers</i> , 2022, 14, 717.	4.5	3
47	A Novel Microfluidic Whole Cell Biosensor Based on Electrochemical Detection for Water Toxicity Analysis. <i>ECS Transactions</i> , 2009, 16, 187-197.	0.5	2
48	Scale-down effects: Towards miniaturization of an electrochemical sensor using biomolecules. , 2013, , .		2
49	Catechol-modified Chitosan System as a Bio-amplifier for Schizophrenia Treatment Analysis. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1572, 1.	0.1	2
50	A Microfluidic-based Electrochemical Biochip for Label-free DNA Hybridization Analysis. <i>Journal of Visualized Experiments</i> , 2014, , 51797.	0.3	2
51	On-Chip Detection of Cellular Activity. , 2009, 117, 179-191.		1
52	Integrated Polypyrrole Flexible Conductors for Biochips and MEMS Applications. <i>Journal of Atomic, Molecular, and Optical Physics</i> , 2012, 2012, 1-5.	0.5	1
53	Electrode Coatings: Partially Functional Electrode Modifications for Rapid Detection of Dopamine in Urine ( <i>Adv. Funct. Mater.</i> 17/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170117.	14.9	1
54	Integration of Sensor Cells into Hardware Platforms. , 2022, , 141-162.		1

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55	Electronically Directed Integration of Whole-Cell Biosensors on Bio-Chips. ECS Transactions, 2010, 33, 49-58.	0.5	0
56	The effect of Vitamin C for point-of-care blood analysis applications using an electrochemical biosensor. , 2013, , .		0
57	Integration of Sensor Cells into Hardware Platforms. , 2019, , 1-23.		0
58	Rosarium Philosophorum on Electrochemistry. Israel Journal of Chemistry, 2021, 61, 3-5.	2.3	0
59	Electrodes for Cell Sensors Interfacing. , 2022, , 569-600.		0
60	Chitosan bio-functionalization of carbon nanotube arrayed electrode. Advanced Materials Letters, 2017, 8, 1166-1170.	0.6	0
61	Electrodes for Cell Sensors Interfacing. , 2020, , 1-33.		0