Ariel L Furst

List of Publications by Year
in descending order

40 papers	1,333 citations	331670 21 h-index	361022 35 g-index
43 all docs	43 docs citations	43 times ranked	1607 citing authors

#	Article	IF	Citations
1	Impedance-Based Detection of Bacteria. Chemical Reviews, 2019, 119, 700-726.	47.7	217
2	The silent pandemic: Emergent antibiotic resistances following the global response to SARS-CoV-2. IScience, 2021, 24, 102304.	4.1	98
3	Label-free electrochemical detection of human methyltransferase from tumors. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14985-14989.	7.1	70
4	Electrochemical Diagnostics for Bacterial Infectious Diseases. ACS Infectious Diseases, 2020, 6, 1567-1571.	3.8	66
5	Electrochemical Sensors to Detect Bacterial Foodborne Pathogens. ACS Sensors, 2021, 6, 1717-1730.	7.8	60
6	Electrochemical Patterning and Detection of DNA Arrays on a Two-Electrode Platform. Journal of the American Chemical Society, 2013, 135, 19099-19102.	13.7	57
7	Cucurbit[6]uril-Promoted Click Chemistry for Protein Modification. Journal of the American Chemical Society, 2017, 139, 9691-9697.	13.7	56
8	Quantifying Hormone Disruptors with an Engineered Bacterial Biosensor. ACS Central Science, 2017, 3, 110-116.	11.3	52
9	Strand Displacement Strategies for Biosensor Applications. Trends in Biotechnology, 2019, 37, 1367-1382.	9.3	52
10	Protection of Anaerobic Microbes from Processing Stressors Using Metalâ€“Phenolic Networks. Journal of the American Chemical Society, 2022, 144, 2438-2443.	13.7	49
11	Electrochemical Strategy for Low-Cost Viral Detection. ACS Central Science, 2021, 7, 963-972.	11.3	42
12	Artificial Metalloproteins Containing Co₄O₄ Cubane Active Sites. Journal of the American Chemical Society, 2018, 140, 2739-2742.	13.7	38
13	DNA-Modified Electrodes Fabricated Using Copper-Free Click Chemistry for Enhanced Protein Detection. Langmuir, 2013, 29, 16141-16149.	3.5	37
14	DNA Electrochemistry: Charge-Transport Pathways through DNA Films on Gold. Journal of the American Chemical Society, 2021, 143, 11631-11640.	13.7	37
15	Electrocatalysis in DNA sensors. Polyhedron, 2014, 84, 150-159.	2.2	34
16	Direct Electrochemical Bioconjugation on Metal Surfaces. Journal of the American Chemical Society, 2017, 139, 12610-12616.	13.7	30
17	A thylakoid membrane-bound and redox-active rubredoxin (RBD1) functions in de novo assembly and repair of photosystem II. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16631-16640.	7.1	30
18	A Multiplexed, Two-Electrode Platform for Biosensing Based on DNA-Mediated Charge Transport. Langmuir, 2015, 31, 6554-6562.	3.5	29

#	Article	IF	Citations
19	Engineering the interface between electroactive bacteria and electrodes. Joule, 2021, 5, 743-747.	24.0	28
20	DNA Hybridization To Interface Current-Producing Cells with Electrode Surfaces. ACS Central Science, 2018, 4, 880-884.	11.3	27
21	A Microbial Electrochemical Technology to Detect and Degrade Organophosphate Pesticides. ACS Central Science, 2021, 7, 1718-1727.	11.3	26
22	DNA Electrochemistry Shows DNMT1 Methyltransferase Hyperactivity in Colorectal Tumors. Chemistry and Biology, 2015, 22, 938-945.	6.0	25
23	Strategies for Engineering Affordable Technologies for Point-of-Care Diagnostics of Infectious Diseases. Accounts of Chemical Research, 2021, 54, 3772-3779.	15.6	24
24	Metalâ€“Phenolic Networks as Versatile Coating Materials for Biomedical Applications. ACS Applied Bio Materials, 2022, 5, 4687-4695.	4.6	18
25	DNA Hybridization to Control Cellular Interactions. Trends in Biochemical Sciences, 2019, 44, 342-350.	7.5	15
26	Surface Requirements for Optimal Biosensing with Disposable Gold Electrodes. ACS Measurement Science Au, 2022, 2, 91-95.	4.4	15
27	Covalent capture and electrochemical quantification of pathogenic E. coli. Chemical Communications, 2021, 57, 2507-2510.	4.1	13
28	Metal-phenolic networks as tuneable spore coat mimetics. Journal of Materials Chemistry B, 2022, 10, 7600-7606.	5.8	13
29	Perspectiveâ€”Electrochemical Sensors to Monitor Endocrine Disrupting Pollutants. Journal of the Electrochemical Society, 2020, 167, 037524.	2.9	12
30	New Techniques for the Generation and Analysis of Tailored Microbial Systems on Surfaces. Biochemistry, 2018, 57, 3017-3026.	2.5	10
31	Toward multimarker and functional assays from crudeÂcell lysates: controlling spacing and signal amplification in DNA-CTâ€“based bioelectrochemical devices. Current Opinion in Electrochemistry, 2019, 14, 104-112.	4.8	8
32	Perspectiveâ€”Electrochemical Sensors for Neurotransmitters and Psychiatrics: Steps toward Physiological Mental Health Monitoring. Journal of the Electrochemical Society, 2022, 169, 047513.	2.9	8
33	Protein-Embedded Metalloporphyrin Arrays Templated by Circularly Permuted Tobacco Mosaic Virus Coat Proteins. ACS Nano, 2021, 15, 8110-8119.	14.6	7
34	Electricity, chemistry and biomarkers: anâ€‰elegant and simple package. EMBO Reports, 2022, 23, e55096.	4.5	7
35	Recent Advances in Signal Amplification to Improve Electrochemical Biosensing for Infectious Diseases. Frontiers in Chemistry, 0, 10, .	3.6	7
36	Bioelectrochemical platforms to study and detect emerging pathogens. MRS Bulletin, 2021, 46, 840-846.	3.5	5

#	Article	IF	Citations
37	Biohybrid Systems for Improved Bioinspired, Energyâ€Relevant Catalysis. ChemBioChem, 2021, 22, 2353-2367.	2.6	4
38	DNA Wires and Electron Transport Through DNA. , 0, , 79-136.		3
39	How Far Can Electromicrobial Production Go?. Joule, 2020, 4, 2079-2081.	24.0	2
40	Interfacial electrolyte effects on aqueous CO2 reduction: Learning from enzymes to develop inorganic approaches. Current Opinion in Electrochemistry, 2022, 35, 101061.	4.8	1