

Ariel L Furst

List of Publications by Year in descending order

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Version: 2024-02-01

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	Surface Requirements for Optimal Biosensing with Disposable Gold Electrodes. ACS Measurement Science Au, 2022, 2, 91-95.	4.4	15
2	Protection of Anaerobic Microbes from Processing Stressors Using Metal-Phenolic Networks. Journal of the American Chemical Society, 2022, 144, 2438-2443.	13.7	49
3	Perspective- Electrochemical Sensors for Neurotransmitters and Psychiatric: Steps toward Physiological Mental Health Monitoring. Journal of the Electrochemical Society, 2022, 169, 047513.	2.9	8
4	Electricity, chemistry and biomarkers: an elegant and simple package. EMBO Reports, 2022, 23, e55096.	4.5	7
5	Metal-Phenolic Networks as Versatile Coating Materials for Biomedical Applications. ACS Applied Bio Materials, 2022, 5, 4687-4695.	4.6	18
6	Interfacial electrolyte effects on aqueous CO2 reduction: Learning from enzymes to develop inorganic approaches. Current Opinion in Electrochemistry, 2022, 35, 101061.	4.8	1
7	Metal-phenolic networks as tuneable spore coat mimetics. Journal of Materials Chemistry B, 2022, 10, 7600-7606.	5.8	13
8	Covalent capture and electrochemical quantification of pathogenic <i>E. coli</i> . Chemical Communications, 2021, 57, 2507-2510.	4.1	13
9	Biohybrid Systems for Improved Bioinspired, Energy-Relevant Catalysis. ChemBioChem, 2021, 22, 2353-2367.	2.6	4
10	The silent pandemic: Emergent antibiotic resistances following the global response to SARS-CoV-2. IScience, 2021, 24, 102304.	4.1	98
11	Engineering the interface between electroactive bacteria and electrodes. Joule, 2021, 5, 743-747.	24.0	28
12	Electrochemical Strategy for Low-Cost Viral Detection. ACS Central Science, 2021, 7, 963-972.	11.3	42
13	Electrochemical Sensors to Detect Bacterial Foodborne Pathogens. ACS Sensors, 2021, 6, 1717-1730.	7.8	60
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	Bioelectrochemical platforms to study and detect emerging pathogens. MRS Bulletin, 2021, 46, 840-846.	3.5	5
16	A Microbial Electrochemical Technology to Detect and Degrade Organophosphate Pesticides. ACS Central Science, 2021, 7, 1718-1727.	11.3	26
17	Protein-Embedded Metalloporphyrin Arrays Templated by Circularly Permuted Tobacco Mosaic Virus Coat Proteins. ACS Nano, 2021, 15, 8110-8119.	14.6	7
18	Strategies for Engineering Affordable Technologies for Point-of-Care Diagnostics of Infectious Diseases. Accounts of Chemical Research, 2021, 54, 3772-3779.	15.6	24

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19	Perspective“Electrochemical Sensors to Monitor Endocrine Disrupting Pollutants. Journal of the Electrochemical Society, 2020, 167, 037524.	2.9	12
20	How Far Can Electromicrobial Production Go?. Joule, 2020, 4, 2079-2081.	24.0	2
21	Electrochemical Diagnostics for Bacterial Infectious Diseases. ACS Infectious Diseases, 2020, 6, 1567-1571.	3.8	66
22	Strand Displacement Strategies for Biosensor Applications. Trends in Biotechnology, 2019, 37, 1367-1382.	9.3	52
23	Toward multimarker and functional assays from crude“cell lysates: controlling spacing and signal amplification in DNA-CT“based bioelectrochemical devices. Current Opinion in Electrochemistry, 2019, 14, 104-112.	4.8	8
24	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
25	Impedance-Based Detection of Bacteria. Chemical Reviews, 2019, 119, 700-726.	47.7	217
26	DNA Hybridization to Control Cellular Interactions. Trends in Biochemical Sciences, 2019, 44, 342-350.	7.5	15
27	Artificial Metalloproteins Containing Co₄O₄ Cubane Active Sites. Journal of the American Chemical Society, 2018, 140, 2739-2742.	13.7	38
28	New Techniques for the Generation and Analysis of Tailored Microbial Systems on Surfaces. Biochemistry, 2018, 57, 3017-3026.	2.5	10
29	DNA Hybridization To Interface Current-Producing Cells with Electrode Surfaces. ACS Central Science, 2018, 4, 880-884.	11.3	27
30	Quantifying Hormone Disruptors with an Engineered Bacterial Biosensor. ACS Central Science, 2017, 3, 110-116.	11.3	52
31	Direct Electrochemical Bioconjugation on Metal Surfaces. Journal of the American Chemical Society, 2017, 139, 12610-12616.	13.7	30
32	Cucurbit[6]uril-Promoted Click Chemistry for Protein Modification. Journal of the American Chemical Society, 2017, 139, 9691-9697.	13.7	56
33	A Multiplexed, Two-Electrode Platform for Biosensing Based on DNA-Mediated Charge Transport. Langmuir, 2015, 31, 6554-6562.	3.5	29
34	DNA Electrochemistry Shows DNMT1 Methyltransferase Hyperactivity in Colorectal Tumors. Chemistry and Biology, 2015, 22, 938-945.	6.0	25
35	Electrocatalysis in DNA sensors. Polyhedron, 2014, 84, 150-159.	2.2	34
36	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

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37	DNA-Modified Electrodes Fabricated Using Copper-Free Click Chemistry for Enhanced Protein Detection. <i>Langmuir</i> , 2013, 29, 16141-16149.	3.5	37
38	Electrochemical Patterning and Detection of DNA Arrays on a Two-Electrode Platform. <i>Journal of the American Chemical Society</i> , 2013, 135, 19099-19102.	13.7	57
39	DNA Wires and Electron Transport Through DNA. , 0, , 79-136.		3
40	Recent Advances in Signal Amplification to Improve Electrochemical Biosensing for Infectious Diseases. <i>Frontiers in Chemistry</i> , 0, 10, .	3.6	7