

Marya Lieberman

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

4,438
citations

172207

29
h-index

106150

65
g-index

98
all docs

98
docs citations

98
times ranked

6131
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid, instrument-free colorimetric quantification of DNA using Nile Blue. <i>Analytical Methods</i> , 2022, 14, 574-580.	1.3	2
2	Reciprocal innovation: a new approach to equitable and mutually beneficial global health research and partnerships. <i>The Lancet Global Health</i> , 2022, 10, S30.	2.9	4
3	High concentrations of illicit stimulants and cutting agents cause false positives on fentanyl test strips. <i>Harm Reduction Journal</i> , 2021, 18, 30.	1.3	36
4	Inquiry-Based Laboratories Using Paper Microfluidic Devices. <i>Journal of Chemical Education</i> , 2021, 98, 1946-1953.	1.1	22
5	Community overdose surveillance: Comparing substances collected from the death scene investigation to toxicology results. <i>Drug and Alcohol Dependence</i> , 2021, 224, 108722.	1.6	14
6	Cost savings of paper analytical devices (PADs) to detect substandard and falsified antibiotics: Kenya case study. <i>Medicine Access Point of Care</i> , 2021, 5, 239920262098030.	1.0	8
7	Screening for Per- and Polyfluoroalkyl Substances in Water with Particle Induced Gamma-Ray Emission Spectroscopy. <i>ACS ES&T Water</i> , 2021, 1, 2477-2484.	2.3	7
8	Validation of a screening kit to identify environmental lead hazards. <i>Environmental Research</i> , 2020, 181, 108892.	3.7	10
9	“Scentsor”: A Whole-Cell Yeast Biosensor with an Olfactory Reporter for Low-Cost and Equipment-Free Detection of Pharmaceuticals. <i>ACS Sensors</i> , 2020, 5, 3025-3030.	4.0	8
10	Involving Students in the Distributed Pharmaceutical Analysis Laboratory: A Citizen-Science Project to Evaluate Global Medicine Quality. <i>Journal of Chemical Education</i> , 2020, 97, 3976-3983.	1.1	10
11	Substandard Cisplatin Found While Screening the Quality of Anticancer Drugs From Addis Ababa, Ethiopia. <i>JCO Global Oncology</i> , 2020, 6, 407-413.	0.8	8
12	Enzyme-based paper test for detection of lactose in illicit drugs. <i>Analytical Methods</i> , 2020, 12, 1077-1084.	1.3	6
13	Paper Millifluidics Lab: Using a Library of Color Tests to Find Adulterated Antibiotics. <i>Journal of Chemical Education</i> , 2020, 97, 786-792.	1.1	11
14	A Sensitive XRF Screening Method for Lead in Drinking Water. <i>Analytical Chemistry</i> , 2020, 92, 4949-4953.	3.2	20
15	Development of a paper-immobilized yeast biosensor for the detection of physiological concentrations of doxycycline in technology-limited settings. <i>Analytical Methods</i> , 2020, 12, 2123-2132.	1.3	15
16	idPAD: Paper Analytical Device for Presumptive Identification of Illicit Drugs. <i>Journal of Forensic Sciences</i> , 2020, 65, 1289-1297.	0.9	24
17	COVID-19 and risks to the supply and quality of tests, drugs, and vaccines. <i>The Lancet Global Health</i> , 2020, 8, e754-e755.	2.9	128
18	Detection of degraded, adulterated, and falsified ceftriaxone using paper analytical devices. <i>Analytical Methods</i> , 2019, 11, 4727-4732.	1.3	10

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19	Lab on paper: assay of beta-lactam pharmaceuticals by redox titration. <i>Analytical Methods</i> , 2019, 11, 4741-4750.	1.3	10
20	Development of a scaleable, low-cost lead sample collection kit: a blinded case-control study. <i>The Lancet Global Health</i> , 2019, 7, S31.	2.9	2
21	Risky bismuth: Distinguishing between lead contamination sources in soils. <i>Chemosphere</i> , 2019, 234, 297-301.	4.2	5
22	Global access to quality-assured medical products: the Oxford Statement and call to action. <i>The Lancet Global Health</i> , 2019, 7, e1609-e1611.	2.9	32
23	Paper Analytic Device to Detect the Presence of Four Chemotherapy Drugs. <i>Journal of Global Oncology</i> , 2018, 4, 1-10.	0.5	1
24	Identification of substandard and falsified antimalarial pharmaceuticals chloroquine, doxycycline, and primaquine using surface-enhanced Raman scattering. <i>Analytical Methods</i> , 2018, 10, 4718-4722.	1.3	17
25	Amoxicillin Quality and Selling Practices in Urban Pharmacies and Drug Stores of Blantyre, Malawi. <i>American Journal of Tropical Medicine and Hygiene</i> , 2018, 99, 233-238.	0.6	17
26	Functionalized Graphene Enables Highly Efficient Solar Thermal Steam Generation. <i>ACS Nano</i> , 2017, 11, 5510-5518.	7.3	330
27	Paper test card for detection of adulterated milk. <i>Analytical Methods</i> , 2017, 9, 5674-5683.	1.3	28
28	Distributed Pharmaceutical Analysis Laboratory (DPAL): Citizen Scientists Tackle a Global Problem. <i>ACS Symposium Series</i> , 2017, , 117-127.	0.5	2
29	Ensuring Patient-Centered Access to Cardiovascular Disease Medicines in Low-Income and Middle-Income Countries Through Health-System Strengthening. <i>Cardiology Clinics</i> , 2017, 35, 125-134.	0.9	19
30	Green design of a paper test card for urinary iodine analysis. <i>PLoS ONE</i> , 2017, 12, e0179716.	1.1	3
31	saltPAD: A New Analytical Tool for Monitoring Salt Iodization in Low Resource Settings. <i>Nanobiomedicine</i> , 2016, 3, 5.	4.4	0
32	Embedded silicon carbide "replicas" patterned by rapid thermal processing of DNA origami on silicon. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, 060602.	0.6	1
33	Visual recognition of paper analytical device images for detection of falsified pharmaceuticals. , 2016, , .		6
34	Preparation of Mica and Silicon Substrates for DNA Origami Analysis and Experimentation. <i>Journal of Visualized Experiments</i> , 2015, , e52972.	0.2	5
35	Lab on Paper: Iodometric Titration on a Printed Card. <i>Analytical Chemistry</i> , 2015, 87, 3764-3770.	3.2	45
36	Enabling the Development and Deployment of Next Generation Point-of-Care Diagnostics. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003676.	1.3	55

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37	Paper Test Cards for Presumptive Testing of Very Low Quality Antimalarial Medications. American Journal of Tropical Medicine and Hygiene, 2015, 92, 17-23.	0.6	35
38	Incorporating yeast biosensors into paper-based analytical tools for pharmaceutical analysis. Analytical and Bioanalytical Chemistry, 2015, 407, 615-619.	1.9	27
39	Optimal Oxide Passivation of Ge for Optoelectronics. ECS Journal of Solid State Science and Technology, 2014, 3, P273-P276.	0.9	0
40	Thermal stability of DNA origami on mica. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, .	0.6	14
41	Electron-Beam Lithography and Molecular Liftoff for Directed Attachment of DNA Nanostructures on Silicon: Top-down Meets Bottom-up. Accounts of Chemical Research, 2014, 47, 1759-1767.	7.6	23
42	Loss of Siloxane Monolayers from GaN Surfaces in Water. Langmuir, 2013, 29, 5145-5149.	1.6	20
43	The Analog Atomic Force Microscope: Measuring, Modeling, and Graphing for Middle School. Journal of Chemical Education, 2013, 90, 358-360.	1.1	10
44	Paper Analytical Devices for Fast Field Screening of Beta Lactam Antibiotics and Antituberculosis Pharmaceuticals. Analytical Chemistry, 2013, 85, 6453-6460.	3.2	107
45	Roughness optimization of electron-beam exposed hydrogen silsesquioxane for immobilization of DNA origami. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, 011806.	0.6	4
46	DNA Origami Nanopatterning on Chemically Modified Graphene. Angewandte Chemie - International Edition, 2012, 51, 912-915.	7.2	59
47	Back Cover: DNA Origami Nanopatterning on Chemically Modified Graphene (Angew. Chem. Int. Ed.) Tj ETQq1 1 0.784314 rgBT / Overlo 7.2	7.2	0
48	Comparison of methods for orienting and aligning DNA origami. Soft Matter, 2011, 7, 4636.	1.2	16
49	The synthesis and characterization of a side-by-side iron phthalocyanine dimer. Journal of Porphyrins and Phthalocyanines, 2011, 15, 277-292.	0.4	3
50	A Low-Tech Analytical Method for Diethylcarbamazine Citrate in Medicated Salt. PLoS Neglected Tropical Diseases, 2011, 5, e1005.	1.3	6
51	Adhesion of DNA nanostructures and DNA origami to lithographically patterned self-assembled monolayers on Si[100]. , 2010, , .		2
52	Guided Deposition of Individual DNA Nanostructures on Silicon Substrates. Langmuir, 2010, 26, 12680-12683.	1.6	36
53	DNA Origami as Self-assembling Circuit Boards. Lecture Notes in Computer Science, 2010, , 56-68.	1.0	6
54	Self-assembled monolayers of poly(ethylene glycol) siloxane as a resist for ultrahigh-resolution electron beam lithography on silicon oxide. Journal of Vacuum Science & Technology B, 2009, 27, 2292.	1.3	6

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55	Selective Binding, Self-Assembly and Nanopatterning of the Creutz-Taube Ion on Surfaces. International Journal of Molecular Sciences, 2009, 10, 533-558.	1.8	4
56	Molecular QCA design with chemically reasonable constraints. ACM Journal on Emerging Technologies in Computing Systems, 2008, 4, 1-21.	1.8	23
57	Compositional Mismatch between Chemical Patterns on a Substrate and Polymer Blends Yielding Spin-Cast Films with Subpattern Periodicity. Macromolecules, 2007, 40, 2120-2125.	2.2	14
58	Using CAD to Shape Experiments in Molecular QCA. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2006, , .	0.0	2
59	Deposition of DNA Rafts on Cationic SAMs on Silicon [100]. Langmuir, 2006, 22, 11279-11283.	1.6	44
60	Characterization of a single molecular QCA cell by Q-control enhanced amplitude modulation atomic force microscopy. Ultramicroscopy, 2006, 106, 735-741.	0.8	3
61	Using CAD to shape experiments in molecular QCA. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2006, , .	0.0	6
62	Implementations of Quantum-dot Cellular Automata. , 2006, , .		9
63	High-Resolution Electron Beam Lithography and DNA Nano-Patterning for Molecular QCA. IEEE Nanotechnology Magazine, 2005, 4, 312-316.	1.1	69
64	Fabrication and Demonstration of Quantum-Dot Cellular Automata Systems. , 2005, , .		0
65	Sub-10 nm electron beam lithography using cold development of poly(methylmethacrylate). Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 1711.	1.6	195
66	AFM Study of Water Meniscus Formation between an AFM Tip and NaCl Substrate. Journal of Physical Chemistry B, 2004, 108, 7814-7819.	1.2	81
67	Thermodynamic Behavior of Molecular-Scale Quantum-Dot Cellular Automata (QCA) Wires and Logic Devices. IEEE Nanotechnology Magazine, 2004, 3, 368-376.	1.1	84
68	Characterization of Molecular QCA Cells by Q-Controlled Enhanced Amplitude Modulation Atomic Force Microscopy. Microscopy and Microanalysis, 2004, 10, 1082-1083.	0.2	0
69	Growth of Ultrasoother Octadecyltrichlorosilane Self-Assembled Monolayers on SiO ₂ . Langmuir, 2003, 19, 1159-1167.	1.6	285
70	Charge Transfer on the Nanoscale: Current Status. Journal of Physical Chemistry B, 2003, 107, 6668-6697.	1.2	946
71	Formation, Characterization, and Sub-50-nm Patterning of Organosilane Monolayers with Embedded Disulfide Bonds: An Engineered Self-Assembled Monolayer Resist for Electron-Beam Lithography. Langmuir, 2003, 19, 9748-9758.	1.6	29
72	Zirconium Phosphonate Monolayers with Embedded Disulfide Bonds. Langmuir, 2003, 19, 7346-7353.	1.6	26

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73	Molecular Quantum-Dot Cellular Automata. <i>Journal of the American Chemical Society</i> , 2003, 125, 1056-1063.	6.6	388
74	Selective deposition of molecules through poly(methylmethacrylate) patterns defined by electron-beam lithography. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003, 21, 227.	1.6	4
75	A Liftoff Technique for Molecular Nanopatterning. <i>Journal of Nanoscience and Nanotechnology</i> , 2003, 3, 309-312.	0.9	11
76	Molecular patterning through high-resolution polymethylmethacrylate masks. <i>Applied Physics Letters</i> , 2002, 80, 4220-4222.	1.5	33
77	Dispersion and Stability Studies of Resorcinarene-Encapsulated Gold Nanoparticles. <i>Langmuir</i> , 2002, 18, 3676-3681.	1.6	107
78	XPS Study of Self-Assembly of Ruthenium Dimers $[(\text{acac})_2\text{Ru}]_2\text{bptz}]_0^+$ on Hydrophobic and Hydrophilic SAMs. <i>Langmuir</i> , 2002, 18, 7964-7970.	1.6	34
79	Quantum-Dot Cellular Automata at a Molecular Scale. <i>Annals of the New York Academy of Sciences</i> , 2002, 960, 225-239.	1.8	121
80	XPS and SERS Study of Silicon Phthalocyanine Monolayers: An Umbrella vs Octopus Design Strategies for Formation of Oriented SAMs. <i>Langmuir</i> , 2001, 17, 4887-4894.	1.6	135
81	Axial Reactivity of Soluble Silicon(IV) Phthalocyanines. <i>Inorganic Chemistry</i> , 2001, 40, 932-939.	1.9	47
82	Synthesis and Properties of $[\text{Ru}_2(\text{acac})_4(\text{bptz})]_{n+}$ ($n = 0, 1$) and Crystal Structure of $[\text{Ru}_2(\text{acac})_4(\text{bptz})]$. <i>Inorganic Chemistry</i> , 2001, 40, 3177-3180.	1.9	65
83	THIOL-MODIFIED PHTHALOCYANINES AND THEIR SELF-ASSEMBLED MONOLAYERS ON GOLD SURFACES. , 1999, , 24-35.		4
84	A Brine Shrimp Bioassay for Measuring Toxicity and Remediation of Chemicals. <i>Journal of Chemical Education</i> , 1999, 76, 1689.	1.1	31
85	Cyclic Voltammetry of Semiconductor Photoelectrodes III: A Comparison of Experiment and Theory for n-Si and p-Si Electrodes. <i>Journal of Physical Chemistry B</i> , 1998, 102, 4731-4738.	1.2	11
86	Synthesis and characterization of functionalized silicon phthalocyanines for fabrication of self-assembled monolayers. <i>Supramolecular Science</i> , 1998, 5, 485-489.	0.7	18
87	Dynamic Structure and Potential Energy Surface of a Three-Helix Bundle Protein. <i>Journal of the American Chemical Society</i> , 1994, 116, 5035-5044.	6.6	58
88	Between the secondary structure and the tertiary structure falls the globule: A problem in de novo protein design. <i>Tetrahedron</i> , 1993, 49, 3677-3689.	1.0	33
89	Artificial helical proteins with metal templates. , 1992, , 332-334.		1
90	Iron(II) organizes a synthetic peptide into three-helix bundles. <i>Journal of the American Chemical Society</i> , 1991, 113, 1470-1471.	6.6	185

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91	Self-assembly approach to protein design. <i>Nanotechnology</i> , 1991, 2, 203-205.	1.3	4
92	Securing the Chain of Custody and Integrity of Data in a Global North-South Partnership to Monitor the Quality of Essential Medicines. <i>Blockchain in Healthcare Today</i> , 0, , .	3.4	1