Marya Lieberman

List of Publications by Year
in descending order

92	4,438	172457	106344
papers	citations	29 h-index	65 g-index

98	98	98	6131
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Charge Transfer on the Nanoscale:â€‰ Current Status. Journal of Physical Chemistry B, 2003, 107, 6668-6697.	2.6	946
2	Molecular Quantum-Dot Cellular Automata. Journal of the American Chemical Society, 2003, 125, 1056-1063.	13.7	388
3	Functionalized Graphene Enables Highly Efficient Solar Thermal Steam Generation. ACS Nano, 2017, 11, 5510-5518.	14.6	330
4	Growth of Ultrasmooth Octadecyltrichlorosilane Self-Assembled Monolayers on SiO2. Langmuir, 2003, 19, 1159-1167.	3.5	285
5	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
6	Iron(II) organizes a synthetic peptide into three-helix bundles. Journal of the American Chemical Society, 1991, 113, 1470-1471.	13.7	185
7	XPS and SERS Study of Silicon Phthalocyanine Monolayers:Â Umbrella vs Octopus Design Strategies for Formation of Oriented SAMs. Langmuir, 2001, 17, 4887-4894.	3.5	135
8	COVID-19 and risks to the supply and quality of tests, drugs, and vaccines. The Lancet Global Health, 2020, 8, e754-e755.	6.3	128
9	Quantumâ€Đot Cellular Automata at a Molecular Scale. Annals of the New York Academy of Sciences, 2002, 960, 225-239.	3.8	121
10	Dispersion and Stability Studies of Resorcinarene-Encapsulated Gold Nanoparticles. Langmuir, 2002, 18, 3676-3681.	3.5	107
11	Paper Analytical Devices for Fast Field Screening of Beta Lactam Antibiotics and Antituberculosis Pharmaceuticals. Analytical Chemistry, 2013, 85, 6453-6460.	6.5	107
12	Thermodynamic Behavior of Molecular-Scale Quantum-Dot Cellular Automata (QCA) Wires and Logic Devices. IEEE Nanotechnology Magazine, 2004, 3, 368-376.	2.0	84
13	AFM Study of Water Meniscus Formation between an AFM Tip and NaCl Substrate. Journal of Physical Chemistry B, 2004, 108, 7814-7819.	2.6	81
14	High-Resolution Electron Beam Lithography and DNA Nano-Patterning for Molecular QCA. IEEE Nanotechnology Magazine, 2005, 4, 312-316.	2.0	69
15	Synthesis and Properties of [Ru2(acac)4(bptz)]n+(n= 0, 1) and Crystal Structure of [Ru2(acac)4(bptz)]. Inorganic Chemistry, 2001, 40, 3177-3180.	4.0	65
16	DNA Origami Nanopatterning on Chemically Modified Graphene. Angewandte Chemie - International Edition, 2012, 51, 912-915.	13.8	59
17	Dynamic Structure and Potential Energy Surface of a Three-Helix Bundle Protein. Journal of the American Chemical Society, 1994, 116, 5035-5044.	13.7	58
18	Enabling the Development and Deployment of Next Generation Point-of-Care Diagnostics. PLoS Neglected Tropical Diseases, 2015, 9, e0003676.	3.0	55

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19	Axial Reactivity of Soluble Silicon(IV) Phthalocyanines. Inorganic Chemistry, 2001, 40, 932-939.	4.0	47
20	Lab on Paper: Iodometric Titration on a Printed Card. Analytical Chemistry, 2015, 87, 3764-3770.	6.5	45
21	Deposition of DNA Rafts on Cationic SAMs on Silicon [100]. Langmuir, 2006, 22, 11279-11283.	3.5	44
22	Guided Deposition of Individual DNA Nanostructures on Silicon Substrates. Langmuir, 2010, 26, 12680-12683.	3.5	36
23	High concentrations of illicit stimulants and cutting agents cause false positives on fentanyl test strips. Harm Reduction Journal, 2021, 18, 30.	3.2	36
24	Paper Test Cards for Presumptive Testing of Very Low Quality Antimalarial Medications. American Journal of Tropical Medicine and Hygiene, 2015, 92, 17-23.	1.4	35
25	XPS Study of Self-Assembly of Ruthenium Dimers [((acac)2Ru)2bptz]0,+ on Hydrophobic and Hydrophilic SAMs. Langmuir, 2002, 18, 7964-7970.	3.5	34
26	Between the secondary structure and the tertiary structure falls the globule: A problem in de novo protein design. Tetrahedron, 1993, 49, 3677-3689.	1.9	33
27	Molecular patterning through high-resolution polymethylmethacrylate masks. Applied Physics Letters, 2002, 80, 4220-4222.	3.3	33
28	Global access to quality-assured medical products: the Oxford Statement and call to action. The Lancet Global Health, 2019, 7, e1609-e1611.	6.3	32
29	A Brine Shrimp Bioassay for Measuring Toxicity and Remediation of Chemicals. Journal of Chemical Education, 1999, 76, 1689.	2.3	31
30	Formation, Characterization, and Sub-50-nm Patterning of Organosilane Monolayers with Embedded Disulfide Bonds:â€‰ An Engineered Self-Assembled Monolayer Resist for Electron-Beam Lithography. Langmuir, 2003, 19, 9748-9758.	3.5	29
31	Paper test card for detection of adulterated milk. Analytical Methods, 2017, 9, 5674-5683.	2.7	28
32	Incorporating yeast biosensors into paper-based analytical tools for pharmaceutical analysis. Analytical and Bioanalytical Chemistry, 2015, 407, 615-619.	3.7	27
33	Zirconiumâ^'Phosphonate Monolayers with Embedded Disulfide Bonds. Langmuir, 2003, 19, 7346-7353.	3.5	26
34	idPAD: Paper Analytical Device for Presumptive Identification of Illicit Drugs. Journal of Forensic Sciences, 2020, 65, 1289-1297.	1.6	24
35	Molecular QCA design with chemically reasonable constraints. ACM Journal on Emerging Technologies in Computing Systems, 2008, 4, 1-21.	2.3	23
36	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.	15.6	23

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37	Inquiry-Based Laboratories Using Paper Microfluidic Devices. Journal of Chemical Education, 2021, 98, 1946-1953.	2.3	22
38	Loss of Siloxane Monolayers from GaN Surfaces in Water. Langmuir, 2013, 29, 5145-5149.	3.5	20
39	A Sensitive XRF Screening Method for Lead in Drinking Water. Analytical Chemistry, 2020, 92, 4949-4953.	6.5	20
40	Ensuring Patient-Centered Access to Cardiovascular Disease Medicines in Low-Income and Middle-Income Countries Through Health-System Strengthening. Cardiology Clinics, 2017, 35, 125-134.	2.2	19
41	Synthesis and characterization of functionalized silicon phthalocyanines for fabrication of self-assembled monolayers. Supramolecular Science, 1998, 5, 485-489.	0.7	18
42	Identification of substandard and falsified antimalarial pharmaceuticals chloroquine, doxycycline, and primaquine using surface-enhanced Raman scattering. Analytical Methods, 2018, 10, 4718-4722.	2.7	17
43	Amoxicillin Quality and Selling Practices in Urban Pharmacies and Drug Stores of Blantyre, Malawi. American Journal of Tropical Medicine and Hygiene, 2018, 99, 233-238.	1.4	17
44	Comparison of methods for orienting and aligning DNA origami. Soft Matter, 2011, 7, 4636.	2.7	16
45	Development of a paper-immobilized yeast biosensor for the detection of physiological concentrations of doxycycline in technology-limited settings. Analytical Methods, 2020, 12, 2123-2132.	2.7	15
46	Compositional Mismatch between Chemical Patterns on a Substrate and Polymer Blends Yielding Spin-Cast Films with Subpattern Periodicity. Macromolecules, 2007, 40, 2120-2125.	4.8	14
47	Thermal stability of DNA origami on mica. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, .	1.2	14
48	Community overdose surveillance: Comparing substances collected from the death scene investigation to toxicology results. Drug and Alcohol Dependence, 2021, 224, 108722.	3.2	14
49	Cyclic Voltammetry of Semiconductor Photoelectrodes III:â€‰ A Comparison of Experiment and Theory for n-Si and p-Si Electrodes. Journal of Physical Chemistry B, 1998, 102, 4731-4738.	2.6	11
50	A Liftoff Technique for Molecular Nanopatterning. Journal of Nanoscience and Nanotechnology, 2003, 3, 309-312.	0.9	11
51	Paper Millifluidics Lab: Using a Library of Color Tests to Find Adulterated Antibiotics. Journal of Chemical Education, 2020, 97, 786-792.	2.3	11
52	The Analog Atomic Force Microscope: Measuring, Modeling, and Graphing for Middle School. Journal of Chemical Education, 2013, 90, 358-360.	2.3	10
53	Detection of degraded, adulterated, and falsified ceftriaxone using paper analytical devices. Analytical Methods, 2019, 11, 4727-4732.	2.7	10
54	Lab on paper: assay of beta-lactam pharmaceuticals by redox titration. Analytical Methods, 2019, 11, 4741-4750.	2.7	10

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55	Validation of a screening kit to identify environmental lead hazards. Environmental Research, 2020, 181, 108892.	7.5	10
56	Involving Students in the Distributed Pharmaceutical Analysis Laboratory: A Citizen-Science Project to Evaluate Global Medicine Quality. Journal of Chemical Education, 2020, 97, 3976-3983.	2.3	10
57	Implementations of Quantum-dot Cellular Automata. , 2006, , .		9
58	â€œScentsorâ€• A Whole-Cell Yeast Biosensor with an Olfactory Reporter for Low-Cost and Equipment-Free Detection of Pharmaceuticals. ACS Sensors, 2020, 5, 3025-3030.	7.8	8
59	Substandard Cisplatin Found While Screening the Quality of Anticancer Drugs From Addis Ababa, Ethiopia. JCO Global Oncology, 2020, 6, 407-413.	1.8	8
60	Cost savings of paper analytical devices (PADs) to detect substandard and falsified antibiotics: Kenya case study. Medicine Access Point of Care, 2021, 5, 239920262098030.	1.0	8
61	Screening for Per- and Polyfluoroalkyl Substances in Water with Particle Induced Gamma-Ray Emission Spectroscopy. ACS ES&T Water, 2021, 1, 2477-2484.	4.6	7
62	Using CAD to shape experiments in molecular QCA. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2006, , .	0.0	6
63	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
64	A Low-Tech Analytical Method for Diethylcarbamazine Citrate in Medicated Salt. PLoS Neglected Tropical Diseases, 2011, 5, e1005.	3.0	6
65	Visual recognition of paper analytical device images for detection of falsified pharmaceuticals. , 2016, , .		6
66	Enzyme-based paper test for detection of lactose in illicit drugs. Analytical Methods, 2020, 12, 1077-1084.	2.7	6
67	DNA Origami as Self-assembling Circuit Boards. Lecture Notes in Computer Science, 2010, , 56-68.	1.3	6
68	Preparation of Mica and Silicon Substrates for DNA Origami Analysis and Experimentation. Journal of Visualized Experiments, 2015, , e52972.	0.3	5
69	Risky bismuth: Distinguishing between lead contamination sources in soils. Chemosphere, 2019, 234, 297-301.	8.2	5
70	Self-assembly approach to protein design. Nanotechnology, 1991, 2, 203-205.	2.6	4
71	THIOL-MODIFIED PHTHALOCYANINES AND THEIR SELF-ASSEMBLED MONOLAYERS ON GOLD SURFACES. , 1999, , 24-35.		4
72	Selective deposition of molecules through poly(methylmethacrylate) patterns defined by electron-beam lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 227.	1.6	4

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73	Selective Binding, Self-Assembly and Nanopatterning of the Creutz-Taube Ion on Surfaces. International Journal of Molecular Sciences, 2009, 10, 533-558.	4.1	4
74	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.	1.2	4
75	Reciprocal innovation: a new approach to equitable and mutually beneficial global health research and partnerships. The Lancet Global Health, 2022, 10, S30.	6.3	4
76	Characterization of a single molecular QCA cell by Q-control enhanced amplitude modulation atomic force microscopy. Ultramicroscopy, 2006, 106, 735-741.	1.9	3
77	The synthesis and characterization of a side-by-side iron phthalocyanine dimer. Journal of Porphyrins and Phthalocyanines, 2011, 15, 277-292.	0.8	3
78	Green design of a paper test card for urinary iodine analysis. PLoS ONE, 2017, 12, e0179716.	2.5	3
79	Using CAD to Shape Experiments in Molecular QCA. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2006, , .	0.0	2
80	Adhesion of DNA nanostructures and DNA origami to lithographically patterned self-assembled monolayers on Si[100]. , 2010, , .		2
81	Distributed Pharmaceutical Analysis Laboratory (DPAL): Citizen Scientists Tackle a Global Problem. ACS Symposium Series, 2017, , 117-127.	0.5	2
82	Development of a scaleable, low-cost lead sample collection kit: a blinded case-control study. The Lancet Global Health, 2019, 7, S31.	6.3	2
83	Rapid, instrument-free colorimetric quantification of DNA using Nile Blue. Analytical Methods, 2022, 14, 574-580.	2.7	2
84	Embedded silicon carbide â€œreplicasâ€•patterned by rapid thermal processing of DNA origami on silicon. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 060602.	1.2	1
85	Paper Analytic Device to Detect the Presence of Four Chemotherapy Drugs. Journal of Global Oncology, 2018, 4, 1-10.	0.5	1
86	Artificial helical proteins with metal templates. , 1992, , 332-334.		1
87	Securing the Chain of Custody and Integrity of Data in a Global North-South Partnership to Monitor the Quality of Essential Medicines. Blockchain in Healthcare Today, 0, , .	3.4	1
88	Characterization of Molecular QCA Cells by Q-Controlled Enhanced Amplitude Modulation Atomic Force Microscopy. Microscopy and Microanalysis, 2004, 10, 1082-1083.	0.4	0
89	Back Cover: DNA Origami Nanopatterning on Chemically Modified Graphene (Angew. Chem. Int. Ed.) Tj ETQq1 1 0.784314 rgBT /Over	13.8	0
90	Optimal Oxide Passivation of Ge for Optoelectronics. ECS Journal of Solid State Science and Technology, 2014, 3, P273-P276.	1.8	0

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91	saltPAD: A New Analytical Tool for Monitoring Salt Iodization in Low Resource Settings. Nanobiomedicine, 2016, 3, 5.	5.7	0
92	Fabrication and Demonstration of Quantum-Dot Cellular Automata Systems. , 2005, , .		0