

Marya Lieberman

List of Publications by Year in descending order

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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	Charge Transfer on the Nanoscale: Current Status. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6668-6697.	1.2	946
2	Molecular Quantum-Dot Cellular Automata. <i>Journal of the American Chemical Society</i> , 2003, 125, 1056-1063.	6.6	388
3	Functionalized Graphene Enables Highly Efficient Solar Thermal Steam Generation. <i>ACS Nano</i> , 2017, 11, 5510-5518.	7.3	330
4	Growth of Ultrasmooth Octadecyltrichlorosilane Self-Assembled Monolayers on SiO ₂ . <i>Langmuir</i> , 2003, 19, 1159-1167.	1.6	285
5	Sub-10 nm electron beam lithography using cold development of poly(methylmethacrylate). <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 1711.	1.6	195
6	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
7	XPS and SERS Study of Silicon Phthalocyanine Monolayers: Umbrella vs Octopus Design Strategies for Formation of Oriented SAMs. <i>Langmuir</i> , 2001, 17, 4887-4894.	1.6	135
8	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
9	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
10	Dispersion and Stability Studies of Resorcinarene-Encapsulated Gold Nanoparticles. <i>Langmuir</i> , 2002, 18, 3676-3681.	1.6	107
11	Paper Analytical Devices for Fast Field Screening of Beta Lactam Antibiotics and Antituberculosis Pharmaceuticals. <i>Analytical Chemistry</i> , 2013, 85, 6453-6460.	3.2	107
12	Thermodynamic Behavior of Molecular-Scale Quantum-Dot Cellular Automata (QCA) Wires and Logic Devices. <i>IEEE Nanotechnology Magazine</i> , 2004, 3, 368-376.	1.1	84
13	AFM Study of Water Meniscus Formation between an AFM Tip and NaCl Substrate. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7814-7819.	1.2	81
14	High-Resolution Electron Beam Lithography and DNA Nano-Patterning for Molecular QCA. <i>IEEE Nanotechnology Magazine</i> , 2005, 4, 312-316.	1.1	69
15	Synthesis and Properties of [Ru ₂ (acac) ₄ (bptz)] _n (n= 0, 1) and Crystal Structure of [Ru ₂ (acac) ₄ (bptz)]. <i>Inorganic Chemistry</i> , 2001, 40, 3177-3180.	1.9	65
16	DNA Origami Nanopatterning on Chemically Modified Graphene. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 912-915.	7.2	59
17	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
18	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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19	Axial Reactivity of Soluble Silicon(IV) Phthalocyanines. <i>Inorganic Chemistry</i> , 2001, 40, 932-939.	1.9	47
20	Lab on Paper: Iodometric Titration on a Printed Card. <i>Analytical Chemistry</i> , 2015, 87, 3764-3770.	3.2	45
21	Deposition of DNA Rafts on Cationic SAMs on Silicon [100]. <i>Langmuir</i> , 2006, 22, 11279-11283.	1.6	44
22	Guided Deposition of Individual DNA Nanostructures on Silicon Substrates. <i>Langmuir</i> , 2010, 26, 12680-12683.	1.6	36
23	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
24	Paper Test Cards for Presumptive Testing of Very Low Quality Antimalarial Medications. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 17-23.	0.6	35
25	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
26	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
27	Molecular patterning through high-resolution polymethylmethacrylate masks. <i>Applied Physics Letters</i> , 2002, 80, 4220-4222.	1.5	33
28	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
29	A Brine Shrimp Bioassay for Measuring Toxicity and Remediation of Chemicals. <i>Journal of Chemical Education</i> , 1999, 76, 1689.	1.1	31
30	Formation, Characterization, and Sub-50-nm Patterning of Organosilane Monolayers with Embedded Disulfide Bonds: An Engineered Self-Assembled Monolayer Resist for Electron-Beam Lithography. <i>Langmuir</i> , 2003, 19, 9748-9758.	1.6	29
31	Paper test card for detection of adulterated milk. <i>Analytical Methods</i> , 2017, 9, 5674-5683.	1.3	28
32	Incorporating yeast biosensors into paper-based analytical tools for pharmaceutical analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 615-619.	1.9	27
33	Zirconium Phosphonate Monolayers with Embedded Disulfide Bonds. <i>Langmuir</i> , 2003, 19, 7346-7353.	1.6	26
34	idPAD: Paper Analytical Device for Presumptive Identification of Illicit Drugs. <i>Journal of Forensic Sciences</i> , 2020, 65, 1289-1297.	0.9	24
35	Molecular QCA design with chemically reasonable constraints. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , 2008, 4, 1-21.	1.8	23
36	Electron-Beam Lithography and Molecular Liftoff for Directed Attachment of DNA Nanostructures on Silicon: Top-down Meets Bottom-up. <i>Accounts of Chemical Research</i> , 2014, 47, 1759-1767.	7.6	23

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37	Inquiry-Based Laboratories Using Paper Microfluidic Devices. <i>Journal of Chemical Education</i> , 2021, 98, 1946-1953.	1.1	22
38	Loss of Siloxane Monolayers from GaN Surfaces in Water. <i>Langmuir</i> , 2013, 29, 5145-5149.	1.6	20
39	A Sensitive XRF Screening Method for Lead in Drinking Water. <i>Analytical Chemistry</i> , 2020, 92, 4949-4953.	3.2	20
40	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
41	Synthesis and characterization of functionalized silicon phthalocyanines for fabrication of self-assembled monolayers. <i>Supramolecular Science</i> , 1998, 5, 485-489.	0.7	18
42	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
43	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
44	Comparison of methods for orienting and aligning DNA origami. <i>Soft Matter</i> , 2011, 7, 4636.	1.2	16
45	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
46	Compositional Mismatch between Chemical Patterns on a Substrate and Polymer Blends Yielding Spin-Cast Films with Subpattern Periodicity. <i>Macromolecules</i> , 2007, 40, 2120-2125.	2.2	14
47	Thermal stability of DNA origami on mica. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, .	0.6	14
48	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
49	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
50	A Liftoff Technique for Molecular Nanopatterning. <i>Journal of Nanoscience and Nanotechnology</i> , 2003, 3, 309-312.	0.9	11
51	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
52	The Analog Atomic Force Microscope: Measuring, Modeling, and Graphing for Middle School. <i>Journal of Chemical Education</i> , 2013, 90, 358-360.	1.1	10
53	Detection of degraded, adulterated, and falsified ceftriaxone using paper analytical devices. <i>Analytical Methods</i> , 2019, 11, 4727-4732.	1.3	10
54	Lab on paper: assay of beta-lactam pharmaceuticals by redox titration. <i>Analytical Methods</i> , 2019, 11, 4741-4750.	1.3	10

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55	Validation of a screening kit to identify environmental lead hazards. <i>Environmental Research</i> , 2020, 181, 108892.	3.7	10
56	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
57	Implementations of Quantum-dot Cellular Automata. , 2006, , .		9
58	“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
59	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
60	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
61	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
62	Using CAD to shape experiments in molecular QCA. <i>IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers</i> , 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. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 2292.	1.3	6
64	A Low-Tech Analytical Method for Diethylcarbamazine Citrate in Medicated Salt. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e1005.	1.3	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. <i>Analytical Methods</i> , 2020, 12, 1077-1084.	1.3	6
67	DNA Origami as Self-assembling Circuit Boards. <i>Lecture Notes in Computer Science</i> , 2010, , 56-68.	1.0	6
68	Preparation of Mica and Silicon Substrates for DNA Origami Analysis and Experimentation. <i>Journal of Visualized Experiments</i> , 2015, , e52972.	0.2	5
69	Risky bismuth: Distinguishing between lead contamination sources in soils. <i>Chemosphere</i> , 2019, 234, 297-301.	4.2	5
70	Self-assembly approach to protein design. <i>Nanotechnology</i> , 1991, 2, 203-205.	1.3	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. <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

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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.	1.8	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.	0.6	4
75	Reciprocal innovation: a new approach to equitable and mutually beneficial global health research and partnerships. The Lancet Global Health, 2022, 10, S30.	2.9	4
76	Characterization of a single molecular QCA cell by Q-control enhanced amplitude modulation atomic force microscopy. Ultramicroscopy, 2006, 106, 735-741.	0.8	3
77	The synthesis and characterization of a side-by-side iron phthalocyanine dimer. Journal of Porphyrins and Phthalocyanines, 2011, 15, 277-292.	0.4	3
78	Green design of a paper test card for urinary iodine analysis. PLoS ONE, 2017, 12, e0179716.	1.1	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.	2.9	2
83	Rapid, instrument-free colorimetric quantification of DNA using Nile Blue. Analytical Methods, 2022, 14, 574-580.	1.3	2
84	Embedded silicon carbide ÆœreplicasÆœ-patterned by rapid thermal processing of DNA origami on silicon. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 060602.	0.6	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.	0.2	0
89	Back Cover: DNA Origami Nanopatterning on Chemically Modified Graphene (Angew. Chem. Int. Ed.) Tj ETQq1 1 0.784314 rgBT /Overlo 7.2 80	0.784314	80
90	Optimal Oxide Passivation of Ge for Optoelectronics. ECS Journal of Solid State Science and Technology, 2014, 3, P273-P276.	0.9	0

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91	saltPAD: A New Analytical Tool for Monitoring Salt Iodization in Low Resource Settings. Nanobiomedicine, 2016, 3, 5.	4.4	0
92	Fabrication and Demonstration of Quantum-Dot Cellular Automata Systems. , 2005, , .		0