

Mark M Somoza

List of Publications by Year in descending order

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47
papers

1,135
citations

331670

21
h-index

414414

32
g-index

50
all docs

50
docs citations

50
times ranked

1185
citing authors

#	ARTICLE	IF	CITATIONS
1	Caffeine induces gastric acid secretion via bitter taste signaling in gastric parietal cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6260-E6269.	7.1	74
2	Acetal Levulinyl Ester (ALE) Groups for 2-Hydroxyl Protection of Ribonucleosides in the Synthesis of Oligoribonucleotides on Glass and Microarrays. <i>Journal of the American Chemical Society</i> , 2009, 131, 8496-8502.	13.7	67
3	Low cost DNA data storage using photolithographic synthesis and advanced information reconstruction and error correction. <i>Nature Communications</i> , 2020, 11, 5345.	12.8	66
4	Next-Generation Nitrobenzyl Photolabile Groups for Light-Directed Chemistry and Microarray Synthesis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8555-8559.	13.8	63
5	Sequence-Dependent Fluorescence of Cy3- and Cy5-Labeled Double-Stranded DNA. <i>Bioconjugate Chemistry</i> , 2016, 27, 840-848.	3.6	55
6	Efficiency, error and yield in light-directed maskless synthesis of DNA microarrays. <i>Journal of Nanobiotechnology</i> , 2011, 9, 57.	9.1	51
7	In vitro combinatory effects of the <i>Alternaria</i> mycotoxins alternariol and altertoxin II and potentially involved miRNAs. <i>Toxicology Letters</i> , 2017, 267, 45-52.	0.8	40
8	Mapping the affinity landscape of Thrombin-binding aptamers on 2-F-ANA/DNA chimeric G-Quadruplex microarrays. <i>Nucleic Acids Research</i> , 2017, 45, gkw1357.	14.5	40
9	Nonivamide Enhances miRNA let-7d Expression and Decreases Adipogenesis PPAR γ Expression in 3T3-L1 Cells. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 1153-1163.	2.6	39
10	Sequence-Dependent Fluorescence of Cyanine Dyes on Microarrays. <i>PLoS ONE</i> , 2011, 6, e22177.	2.5	38
11	Nonivamide, a capsaicin analog, increases dopamine and serotonin release in SH-SY5Y cells via a TRPV1-independent pathway. <i>Molecular Nutrition and Food Research</i> , 2013, 57, 2008-2018.	3.3	37
12	Express photolithographic DNA microarray synthesis with optimized chemistry and high-efficiency photolabile groups. <i>Journal of Nanobiotechnology</i> , 2016, 14, 14.	9.1	34
13	Simultaneous Light-Directed Synthesis of Mirror-Image Microarrays in a Photochemical Reaction Cell with Flare Suppression. <i>Analytical Chemistry</i> , 2013, 85, 8513-8517.	6.5	31
14	High-Density RNA Microarrays Synthesized In Situ by Photolithography. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15257-15261.	13.8	31
15	Optimized Light-Directed Synthesis of Aptamer Microarrays. <i>Analytical Chemistry</i> , 2013, 85, 5950-5957.	6.5	30
16	Comparison of the Sequence-Dependent Fluorescence of the Cyanine Dyes Cy3, Cy5, DyLight DY547 and DyLight DY647 on Single-Stranded DNA. <i>PLoS ONE</i> , 2014, 9, e85605.	2.5	29
17	Multi-level patterning nucleic acid photolithography. <i>Nature Communications</i> , 2019, 10, 3805.	12.8	29
18	Torsional Relaxation and Friction on the Nanometer Length Scale: Comparison of Small-Molecule Rotation in Poly(dimethylsiloxane) and Poly(isobutylene). <i>Macromolecules</i> , 2003, 36, 2721-2732.	4.8	28

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19	Friction on Small Objects and the Breakdown of Hydrodynamics in Solution: Rotation of Anthracene in Poly(isobutylene) from the Small-Molecule to Polymer Limits. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7385-7397.	2.6	26
20	Ultrafast dichroism spectroscopy of anthracene in solution. I. Inertial versus diffusive rotation in benzyl alcohol. <i>Journal of Chemical Physics</i> , 2001, 115, 4212-4222.	3.0	23
21	N ^ε -Carboxymethyllysine (CML), a Maillard reaction product, stimulates serotonin release and activates the receptor for advanced glycation end products (RAGE) in SH-SY5Y cells. <i>Food and Function</i> , 2013, 4, 1111.	4.6	21
22	Bitter Sensing <i>TAS2R50</i> Mediates the <i>trans</i> -Resveratrol-Induced Anti-inflammatory Effect on Interleukin 6 Release in HGF-1 Cells in Culture. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 13339-13349.	5.2	20
23	Chemical and photochemical error rates in light-directed synthesis of complex DNA libraries. <i>Nucleic Acids Research</i> , 2021, 49, 6687-6701.	14.5	20
24	Defining the <i>Sphagnum</i> Core Microbiome across the North American Continent Reveals a Central Role for Diazotrophic Methanotrophs in the Nitrogen and Carbon Cycles of Boreal Peatland Ecosystems. <i>MBio</i> , 2022, 13, .	4.1	18
25	High-Efficiency Reverse (5'→3') Synthesis of Complex DNA Microarrays. <i>Scientific Reports</i> , 2018, 8, 15099.	3.3	17
26	Melanoidins from coffee and bread differently influence energy intake: A randomized controlled trial of food intake and gut-brain axis response. <i>Journal of Functional Foods</i> , 2020, 72, 104063.	3.4	17
27	Specificity and Efficiency of the Uracil DNA Glycosylase-Mediated Strand Cleavage Surveyed on Large Sequence Libraries. <i>Scientific Reports</i> , 2019, 9, 17822.	3.3	16
28	Sequence Preference and Initiator Promiscuity for <i>De Novo</i> DNA Synthesis by Terminal Deoxynucleotidyl Transferase. <i>ACS Synthetic Biology</i> , 2021, 10, 1750-1760.	3.8	16
29	N ^ε -Carboxymethyllysine Increases the Expression of miR-103/143 and Enhances Lipid Accumulation in 3T3-L1 Cells. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 2413-2422.	2.6	15
30	Evaluation of Palm Oil as a Suitable Vegetable Oil for Vitamin A Fortification Programs. <i>Nutrients</i> , 2016, 8, 378.	4.1	13
31	Large-Scale Photolithographic Synthesis of Chimeric DNA/RNA Hairpin Microarrays To Explore Sequence Specificity Landscapes of RNase HIII Cleavage. <i>Biochemistry</i> , 2019, 58, 4389-4397.	2.5	11
32	Bitter-Tasting Amino Acids <i>Arginine</i> and <i>Isoleucine</i> Differentially Regulate Proton Secretion via T2R1 Signaling in Human Parietal Cells in Culture. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 3434-3444.	5.2	11
33	Hamming Distance as a Concept in DNA Molecular Recognition. <i>ACS Omega</i> , 2017, 2, 1302-1308.	3.5	10
34	Spotting, Transcription and In Situ Synthesis: Three Routes for the Fabrication of RNA Microarrays. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 862-868.	4.1	10
35	Sequence-dependent quenching of fluorescein fluorescence on single-stranded and double-stranded DNA. <i>RSC Advances</i> , 2022, 12, 5629-5637.	3.6	10
36	The advanced glycation end product N ^ε -carboxymethyllysine and its precursor glyoxal increase serotonin release from <i>Caco-2</i> cells. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 2731-2741.	2.6	9

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37	Chip-SIP: Stable Isotope Probing Analyzed with rRNA-Targeted Microarrays and NanoSIMS. <i>Methods in Molecular Biology</i> , 2019, 2046, 71-87.	0.9	9
38	Base-cleavable microarrays for the characterization of DNA and RNA oligonucleotides synthesized <i>in situ</i> by photolithography. <i>Chemical Communications</i> , 2014, 50, 12903-12906.	4.1	8
39	Identification of Cinnamaldehyde as Most Effective Fatty Acid Uptake Reducing Cinnamon-Derived Compound in Differentiated Caco-2 Cells Compared to Its Structural Analogues Cinnamyl Alcohol, Cinnamic Acid, and Cinnamyl Isobutyrate. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 11638-11649.	5.2	7
40	Exposure of Human Gastric Cells to Oxidized Lipids Stimulates Pathways of Amino Acid Biosynthesis on a Genomic and Metabolomic Level. <i>Molecules</i> , 2019, 24, 4111.	3.8	7
41	DNA Duplex Formation as a Bioorthogonal Information Channel in Nucleic Acid-Based Surface Patterning. <i>Chemistry - A European Journal</i> , 2020, 26, 14310-14314.	3.3	6
42	High-Density DNA and RNA microarrays - Photolithographic Synthesis, Hybridization and Preparation of Large Nucleic Acid Libraries. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	5
43	Impact of free N ^ε -carboxymethyllysine, its precursor glyoxal and AGE-modified BSA on serotonin release from human parietal cells in culture. <i>Food and Function</i> , 2018, 9, 3906-3915.	4.6	4
44	Gastric Serotonin Biosynthesis and Its Functional Role in L-Arginine-Induced Gastric Proton Secretion. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5881.	4.1	4
45	Simple synthesis of massively parallel RNA microarrays via enzymatic conversion from DNA microarrays. <i>Nature Communications</i> , 2022, 13, .	12.8	4
46	Long-Term Consumption of a Sugar-Sweetened Soft Drink in Combination with a Western-Type Diet Is Associated with Morphological and Molecular Changes of Taste Markers Independent of Body Weight Development in Mice. <i>Nutrients</i> , 2022, 14, 594.	4.1	3
47	In-situ-Synthese von hochdichten RNA-Mikroarrays mittels Photolithographie. <i>Angewandte Chemie</i> , 2018, 130, 15477-15481.	2.0	2