Marna D Yandeau-Nelson

List of Publications by Year
in descending order

26 papers	888 citations	567281 15 h-index	580821 25 g-index
31 all docs	31 docs citations	31 times ranked	1453 citing authors

#	Article	IF	Citations
1	Phylogenetic and experimental characterization of an acyl-ACP thioesterase family reveals significant diversity in enzymatic specificity and activity. BMC Biochemistry, 2011, 12, 44.	4.4	142
2	Subcellular-level resolution MALDI-MS imaging of maize leaf metabolites by MALDI-linear ion trap-Orbitrap mass spectrometer. Analytical and Bioanalytical Chemistry, 2015, 407, 2301-2309.	3.7	113
3	Characterization of two GL8 paralogs reveals that the 3-ketoacyl reductase component of fatty acid elongase is essential for maize (Zea mays L.) development. Plant Journal, 2005, 42, 844-861.	5.7	82
4	Nearly Identical Paralogs: Implications for Maize (<i>Zea mays</i> L.) Genome Evolution. Genetics, 2007, 175, 429-439.	2.9	60
5	Deficiency of maize starch-branching enzyme i results in altered starch fine structure, decreased digestibility and reduced coleoptile growth during germination. BMC Plant Biology, 2011, 11, 95.	3.6	55
6	High spatial resolution mass spectrometry imaging reveals the genetically programmed, developmental modification of the distribution of thylakoid membrane lipids among individual cells of maize leaf. Plant Journal, 2017, 89, 825-838.	5.7	52
7	Spatial Mapping and Profiling of Metabolite Distributions during Germination. Plant Physiology, 2017, 174, 2532-2548.	4.8	50
8	Biological origins of normal-chain hydrocarbons: a pathway model based on cuticular wax analyses of maize silks. Plant Journal, 2010, 64, 618-632.	5.7	40
9	Starch-Branching Enzyme IIa Is Required for Proper Diurnal Cycling of Starch in Leaves of Maize Â. Plant Physiology, 2011, 156, 479-490.	4.8	36
10	Temperature gradient capillary electrophoresis (TGCE)â€"a tool for the high-throughput discovery and mapping of SNPs and IDPs. Theoretical and Applied Genetics, 2005, 111, 218-225.	3.6	33
11	Unequal Sister Chromatid and Homolog Recombination at a Tandem Duplication of the a1 Locus in Maize. Genetics, 2006, 173, 2211-2226.	2.9	31
12	MuDR Transposase Increases the Frequency of Meiotic Crossovers in the Vicinity of a Mu Insertion in the Maize a1 Gene. Genetics, 2005, 169, 917-929.	2.9	28
13	Two distinct domains contribute to the substrate acyl chain length selectivity of plant acyl-ACP thioesterase. Nature Communications, 2018, 9, 860.	12.8	28
14	Effects of trans-acting Genetic Modifiers on Meiotic Recombination Across the a1â€"sh2 Interval of Maize. Genetics, 2006, 174, 101-112.	2.9	27
15	Altering the Substrate Specificity of Acetyl-CoA Synthetase by Rational Mutagenesis of the Carboxylate Binding Pocket. ACS Synthetic Biology, 2019, 8, 1325-1336.	3.8	27
16	A robust and efficientÂmethod for the extraction of plant extracellular surface lipids as applied to the analysis of silks and seedling leaves of maize. PLoS ONE, 2017, 12, e0180850.	2.5	19
17	Maize <i>Glossy2</i> and <i>Glossy2-like</i> Genes Have Overlapping and Distinct Functions in Cuticular Lipid Deposition. Plant Physiology, 2020, 183, 840-853.	4.8	14
18	Microbial production of bi-functional molecules by diversification of the fatty acid pathway. Metabolic Engineering, 2016, 35, 9-20.	7.0	12

#	Article	IF	Citations
19	Genetic and environmental variation impact the cuticular hydrocarbon metabolome on the stigmatic surfaces of maize. BMC Plant Biology, 2019, 19, 430.	3.6	11
20	Genetic control of kernel compositional variation in a maize diversity panel. Plant Genome, 2021, 14, e20115.	2.8	7
21	A multigenotype maize silk expression atlas reveals how exposureâ€related stresses are mitigated following emergence from husk leaves. Plant Genome, 2020, 13, e20040.	2.8	6
22	Identification of active site residues implies a two-step catalytic mechanism for acyl-ACP thioesterase. Biochemical Journal, 2018, 475, 3861-3873.	3.7	4
23	Predicting moisture content during maize nixtamalization using machine learning with NIR spectroscopy. Theoretical and Applied Genetics, 2021, 134, 3743-3757.	3.6	3
24	Remembering Dr. Nick Lauter (December 13, 1972 â€" January 7, 2021). Current Plant Biology, 2021, 27, 100214.	4.7	3
25	Development and application of a quantitative bioassay to evaluate maize silk resistance to corn earworm herbivory among progenies derived from Peruvian landrace Piura. PLoS ONE, 2019, 14, e0215414.	2.5	2
26	Substrate promiscuity of Î²â€Ketoacyl ACP Synthase III (KASIII): Understanding the structural basis for functional diversity of KASIII enzymes. FASEB Journal, 2013, 27, 559.4.	0.5	0