

Eve Syrkin Wurtele

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7924513/publications.pdf>

Version: 2024-02-01

99
papers

5,344
citations

101384

36
h-index

95083

68
g-index

109
all docs

109
docs citations

109
times ranked

6219
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Potential of metabolomics as a functional genomics tool. Trends in Plant Science, 2004, 9, 418-425. | 4.3 | 685 |
| 2 | A proposed framework for the description of plant metabolomics experiments and their results. Nature Biotechnology, 2004, 22, 1601-1606. | 9.4 | 283 |
| 3 | Plant biotin-containing carboxylases. Archives of Biochemistry and Biophysics, 2003, 414, 211-222. | 1.4 | 208 |
| 4 | Evolution of the chalcone-isomerase fold from fatty-acid binding to stereospecific catalysis. Nature, 2012, 485, 530-533. | 13.7 | 191 |
| 5 | Reverse Genetic Characterization of Cytosolic Acetyl-CoA Generation by ATP-Citrate Lyase in Arabidopsis. Plant Cell, 2005, 17, 182-203. | 3.1 | 185 |
| 6 | Molecular Characterization of a Heteromeric ATP-Citrate Lyase That Generates Cytosolic Acetyl-Coenzyme A in Arabidopsis. Plant Physiology, 2002, 130, 740-756. | 2.3 | 183 |
| 7 | Coming of age: orphan genes in plants. Trends in Plant Science, 2014, 19, 698-708. | 4.3 | 158 |
| 8 | The Role of Pyruvate Dehydrogenase and Acetyl-Coenzyme A Synthetase in Fatty Acid Synthesis in Developing Arabidopsis Seeds. Plant Physiology, 2000, 123, 497-508. | 2.3 | 147 |
| 9 | Direct profiling and imaging of plant metabolites in intact tissues by using colloidal graphite-assisted laser desorption ionization mass spectrometry. Plant Journal, 2008, 55, 348-360. | 2.8 | 138 |
| 10 | Isolation and characterization of a tomato cDNA clone which codes for a salt-induced protein. Plant Molecular Biology, 1988, 10, 401-412. | 2.0 | 136 |
| 11 | Identification of the novel protein QQS as a component of the starch metabolic network in Arabidopsis leaves. Plant Journal, 2009, 58, 485-498. | 2.8 | 118 |
| 12 | <i>QQS</i> orphan gene regulates carbon and nitrogen partitioning across species via NF-YC interactions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14734-14739. | 3.3 | 109 |
| 13 | A global approach to analysis and interpretation of metabolic data for plant natural product discovery. Natural Product Reports, 2013, 30, 565. | 5.2 | 104 |
| 14 | Acetyl-CoA "Life at the metabolic nexus. Plant Science, 2009, 176, 597-601. | 1.7 | 102 |
| 15 | Plants contain multiple biotin enzymes: Discovery of 3-methylcrotonyl-CoA carboxylase, propionyl-CoA carboxylase and pyruvate carboxylase in the plant kingdom. Archives of Biochemistry and Biophysics, 1990, 278, 179-186. | 1.4 | 99 |
| 16 | 3-Methylcrotonyl-Coenzyme A Carboxylase Is a Component of the Mitochondrial Leucine Catabolic Pathway in Plants. Plant Physiology, 1998, 118, 1127-1138. | 2.3 | 99 |
| 17 | Coordinate Regulation of the Nuclear and Plastidic Genes Coding for the Subunits of the Heteromeric Acetyl-Coenzyme A Carboxylase. Plant Physiology, 2000, 122, 1057-1072. | 2.3 | 99 |
| 18 | Functional Genomics: High-Throughput mRNA, Protein, and Metabolite Analyses. Metabolic Engineering, 2002, 4, 98-106. | 3.6 | 97 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | PlantMetabolomics.org: A Web Portal for Plant Metabolomics Experiments. <i>Plant Physiology</i> , 2010, 152, 1807-1816. | 2.3 | 93 |
| 20 | Regulon organization of Arabidopsis. <i>BMC Plant Biology</i> , 2008, 8, 99. | 1.6 | 90 |
| 21 | Articulation of three core metabolic processes in Arabidopsis: Fatty acid biosynthesis, leucine catabolism and starch metabolism. <i>BMC Plant Biology</i> , 2008, 8, 76. | 1.6 | 83 |
| 22 | Use of streptavidin to detect biotin-containing proteins in plants. <i>Analytical Biochemistry</i> , 1985, 149, 448-453. | 1.1 | 64 |
| 23 | Reverse-Genetic Analysis of the Two Biotin-Containing Subunit Genes of the Heteromeric Acetyl-Coenzyme A Carboxylase in Arabidopsis Indicates a Unidirectional Functional Redundancy. <i>Plant Physiology</i> , 2011, 155, 293-314. | 2.3 | 62 |
| 24 | The <i>QQS</i> orphan gene of Arabidopsis modulates carbon and nitrogen allocation in soybean. <i>Plant Biotechnology Journal</i> , 2015, 13, 177-187. | 4.1 | 62 |
| 25 | Genomic Organization of 251 kDa Acetyl-CoA Carboxylase Genes in Arabidopsis: Tandem Gene Duplication has Made Two Differentially Expressed Isozymes. <i>Plant and Cell Physiology</i> , 1995, 36, 779-787. | 1.5 | 59 |
| 26 | MetNet: Software to Build and Model the Biogenetic Lattice of Arabidopsis. <i>Comparative and Functional Genomics</i> , 2003, 4, 239-245. | 2.0 | 57 |
| 27 | Modeling Gene Expression Networks Using Fuzzy Logic. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2005, 35, 1351-1359. | 5.5 | 57 |
| 28 | Subcellular and Developmental Distribution of 12 Cyanoalanine Synthase in Barley Leaves. <i>Plant Physiology</i> , 1985, 78, 285-290. | 2.3 | 55 |
| 29 | Role of miR-2392 in driving SARS-CoV-2 infection. <i>Cell Reports</i> , 2021, 37, 109839. | 2.9 | 52 |
| 30 | Tissue Distribution of Acetyl-Coenzyme A Carboxylase in Leaves. <i>Plant Physiology</i> , 1984, 75, 895-901. | 2.3 | 51 |
| 31 | Metabolic and Environmental Regulation of 3-Methylcrotonyl-Coenzyme A Carboxylase Expression in Arabidopsis. <i>Plant Physiology</i> , 2002, 129, 625-637. | 2.3 | 49 |
| 32 | Metabolomic Characterization of Knockout Mutants in Arabidopsis: Development of a Metabolite Profiling Database for Knockout Mutants in Arabidopsis. <i>Plant Physiology</i> , 2014, 165, 948-961. | 2.3 | 49 |
| 33 | AtRabD2b and AtRabD2c have overlapping functions in pollen development and pollen tube growth. <i>BMC Plant Biology</i> , 2011, 11, 25. | 1.6 | 44 |
| 34 | An mRNA that specifically accumulates in maize roots delineates a novel subset of developing cortical cells. <i>Plant Molecular Biology</i> , 1992, 20, 821-831. | 2.0 | 43 |
| 35 | ArcA Controls Metabolism, Chemotaxis, and Motility Contributing to the Pathogenicity of Avian Pathogenic Escherichia coli. <i>Infection and Immunity</i> , 2015, 83, 3545-3554. | 1.0 | 41 |
| 36 | Integration of metabolic networks and gene expression in virtual reality. <i>Bioinformatics</i> , 2005, 21, 3645-3650. | 1.8 | 39 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Functional Identification of Valerena-1,10-diene Synthase, a Terpene Synthase Catalyzing a Unique Chemical Cascade in the Biosynthesis of Biologically Active Sesquiterpenes in <i>Valeriana officinalis</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 3163-3173. | 1.6 | 39 |
| 38 | A systems biology approach toward understanding seed composition in soybean. <i>BMC Genomics</i> , 2015, 16, S9. | 1.2 | 39 |
| 39 | Differential Accumulation of Biotin Enzymes during Carrot Somatic Embryogenesis. <i>Plant Physiology</i> , 1992, 99, 1699-1703. | 2.3 | 37 |
| 40 | A simple, efficient method for the <i>Agrobacterium</i> -mediated transformation of carrot callus cells. <i>Plant Science</i> , 1989, 61, 253-262. | 1.7 | 36 |
| 41 | Quantitative analysis of short-chain acyl-coenzymeAs in plant tissues by LC-MS/MS electrospray ionization method. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 482-488. | 1.2 | 36 |
| 42 | Tissue Distribution of $\hat{1}^2$ -Cyanoalanine Synthase in Leaves. <i>Plant Physiology</i> , 1984, 75, 979-982. | 2.3 | 35 |
| 43 | orfipy: a fast and flexible tool for extracting ORFs. <i>Bioinformatics</i> , 2021, 37, 3019-3020. | 1.8 | 35 |
| 44 | Diacetylenic isobutylamides of Echinacea: synthesis and natural distribution. <i>Phytochemistry</i> , 2004, 65, 2477-2484. | 1.4 | 32 |
| 45 | Genome wide co-expression among the starch debranching enzyme genes AtISA1, AtISA2, and AtISA3 in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2007, 58, 3323-3342. | 2.4 | 32 |
| 46 | Medicinal Plants: A Public Resource for Metabolomics and Hypothesis Development. <i>Metabolites</i> , 2012, 2, 1031-1059. | 1.3 | 32 |
| 47 | phylostrat: a framework for phylostratigraphy. <i>Bioinformatics</i> , 2019, 35, 3617-3627. | 1.8 | 32 |
| 48 | Geranoyl-CoA Carboxylase: A Novel Biotin-Containing Enzyme in Plants. <i>Archives of Biochemistry and Biophysics</i> , 1999, 362, 12-21. | 1.4 | 30 |
| 49 | Year-and-a-Half Old, Dried Echinacea Roots Retain Cytokine-Modulating Capabilities in an in vitro Human Older Adult Model of Influenza Vaccination. <i>Planta Medica</i> , 2006, 72, 1207-1215. | 0.7 | 30 |
| 50 | Molecular Characterization of the Non-biotin-containing Subunit of 3-Methylcrotonyl-CoA Carboxylase. <i>Journal of Biological Chemistry</i> , 2000, 275, 5582-5590. | 1.6 | 29 |
| 51 | The Role of Biotin in Regulating 3-Methylcrotonyl-Coenzyme A Carboxylase Expression in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2003, 131, 1479-1486. | 2.3 | 29 |
| 52 | Identification and biosynthesis of acylphloroglucinols in <i>Hypericum gentianoides</i> . <i>Physiologia Plantarum</i> , 2013, 148, 354-370. | 2.6 | 28 |
| 53 | Comparative Proteomics of Rubber Latex Revealed Multiple Protein Species of REF/SRPP Family Respond Diversely to Ethylene Stimulation among Different Rubber Tree Clones. <i>International Journal of Molecular Sciences</i> , 2017, 18, 958. | 1.8 | 28 |
| 54 | Abscisic acid is present in liverworts. <i>Phytochemistry</i> , 1994, 37, 625-627. | 1.4 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | How new genes are born. <i>ELife</i> , 2020, 9, . | 2.8 | 25 |
| 56 | MetNet: Systems Biology Tools for Arabidopsis. , 2007, , 145-157. | | 24 |
| 57 | System-wide transcriptome damage and tissue identity loss in COVID-19 patients. <i>Cell Reports Medicine</i> , 2022, 3, 100522. | 3.3 | 24 |
| 58 | Subcellular Localization of a UDP-Glucose:Aldehyde Cyanohydrin β -Glucosyl Transferase in Epidermal Plastids of <i>Sorghum</i> Leaf Blades. <i>Plant Physiology</i> , 1982, 70, 1732-1737. | 2.3 | 22 |
| 59 | Quantitation of Starch and ADP-Glucose Pyrophosphorylase in non-Embryogenic Cells and Embryogenic Cell Clusters from Carrot Suspension Cultures. <i>Journal of Plant Physiology</i> , 1988, 132, 683-689. | 1.6 | 20 |
| 60 | Modifications of membrane lipids in response to wounding of <i>Arabidopsis thaliana</i> leaves. <i>Plant Signaling and Behavior</i> , 2015, 10, e1056422. | 1.2 | 20 |
| 61 | Characterizing the Metabolic Fingerprint and Anti-inflammatory Activity of <i>Hypericum gentianoides</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 4359-4366. | 2.4 | 19 |
| 62 | Metabolic Profiling of <i>Echinacea</i> Genotypes and a Test of Alternative Taxonomic Treatments. <i>Planta Medica</i> , 2009, 75, 178-183. | 0.7 | 19 |
| 63 | MetaOmGraph: a workbench for interactive exploratory data analysis of large expression datasets. <i>Nucleic Acids Research</i> , 2020, 48, e23-e23. | 6.5 | 19 |
| 64 | Comparison of Starch and ADP-Glucose Pyrophosphorylase Levels in Nonembryogenic Cells and Developing Embryos from Induced Carrot Cultures. <i>Plant Physiology</i> , 1988, 86, 451-456. | 2.3 | 18 |
| 65 | Raising orphans from a metadata morass: A researcher's guide to re-use of public ϵ omics data. <i>Plant Science</i> , 2018, 267, 32-47. | 1.7 | 18 |
| 66 | PubMed Assistant: a biologist-friendly interface for enhanced PubMed search. <i>Bioinformatics</i> , 2006, 22, 378-380. | 1.8 | 17 |
| 67 | MetNet Online: a novel integrated resource for plant systems biology. <i>BMC Bioinformatics</i> , 2012, 13, 267. | 1.2 | 17 |
| 68 | Subcellular distribution of acetyl-coenzyme A carboxylase in mesophyll cells of barley and sorghum leaves. <i>Archives of Biochemistry and Biophysics</i> , 1984, 235, 555-561. | 1.4 | 16 |
| 69 | fagin: synteny-based phylostratigraphy and finer classification of young genes. <i>BMC Bioinformatics</i> , 2019, 20, 440. | 1.2 | 16 |
| 70 | Massive Human Co-expression Network and Its Medical Applications. <i>Chemistry and Biodiversity</i> , 2012, 9, 868-887. | 1.0 | 15 |
| 71 | Differentially Expressed Genes in Hypericin-Containing <i>Hypericum perforatum</i> Leaf Tissues as Revealed by De Novo Assembly of RNA-Seq. <i>Plant Molecular Biology Reporter</i> , 2016, 34, 1027-1041. | 1.0 | 15 |
| 72 | African Americans and European Americans exhibit distinct gene expression patterns across tissues and tumors associated with immunologic functions and environmental exposures. <i>Scientific Reports</i> , 2021, 11, 9905. | 1.6 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Comprehensive analysis of correlation coefficients estimated from pooling heterogeneous microarray data. <i>BMC Bioinformatics</i> , 2013, 14, 214. | 1.2 | 14 |
| 74 | Identification and functional characterization of HbOsmotin from <i>Hevea brasiliensis</i> . <i>Plant Physiology and Biochemistry</i> , 2016, 109, 171-180. | 2.8 | 14 |
| 75 | <code>pyrpipe</code> : a Python package for RNA-Seq workflows. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab049. | 1.5 | 14 |
| 76 | Foster thy young: enhanced prediction of orphan genes in assembled genomes. <i>Nucleic Acids Research</i> , 2022, 50, e37-e37. | 6.5 | 13 |
| 77 | Accumulation of petroselinic acid in developing somatic carrot embryos. <i>Phytochemistry</i> , 1994, 37, 749-753. | 1.4 | 11 |
| 78 | Zrp2: a novel maize gene whose mRNA accumulates in the root cortex and mature stems. <i>Plant Molecular Biology</i> , 1997, 35, 367-375. | 2.0 | 10 |
| 79 | Hierarchical visualization of metabolic networks using virtual reality. , 2006, , . | | 10 |
| 80 | PathBinder – text empirics and automatic extraction of biomolecular interactions. <i>BMC Bioinformatics</i> , 2009, 10, S18. | 1.2 | 10 |
| 81 | Holocarboxylase Synthetase 1 Physically Interacts with Histone H3 in <i>Arabidopsis</i> . <i>Scientifica</i> , 2013, 2013, 1-9. | 0.6 | 10 |
| 82 | Characterization of 3-Methylcrotonyl-CoA Carboxylase from Plants. <i>Methods in Enzymology</i> , 2000, 324, 280-292. | 0.4 | 9 |
| 83 | Comprehensive transcriptome analyses correlated with untargeted metabolome reveal differentially expressed pathways in response to cell wall alterations. <i>Plant Molecular Biology</i> , 2018, 96, 509-529. | 2.0 | 8 |
| 84 | Propagation of an elite high biomass-producing genotype of <i>Atriplex canescens</i> by axillary enhancement. <i>Bioresource Technology</i> , 1987, 12, 281-291. | 0.3 | 7 |
| 85 | Landscape of the Dark Transcriptome Revealed Through Re-mining Massive RNA-Seq Data. <i>Frontiers in Genetics</i> , 2021, 12, 722981. | 1.1 | 7 |
| 86 | Creating, Modeling, and Visualizing Metabolic Networks. , 2005, , 491-518. | | 5 |
| 87 | MetNetGE: Visualizing biological networks in hierarchical views and 3D tiered layouts. , 2009, , . | | 4 |
| 88 | MetNetAPI: A flexible method to access and manipulate biological network data from MetNet. <i>BMC Research Notes</i> , 2010, 3, 312. | 0.6 | 4 |
| 89 | Automatic extraction of biomolecular interactions: an empirical approach. <i>BMC Bioinformatics</i> , 2013, 14, 234. | 1.2 | 4 |
| 90 | Tissue distribution of acetyl-CoA carboxylase in leaves of leek (<i>Allium porrum</i> L.). <i>Journal of Plant Physiology</i> , 1998, 153, 265-269. | 1.6 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | MetalBlast computer game: a pipeline from science to 3D art to education. , 2012, , . | | 3 |
| 92 | Use of Metabolomics and Transcriptomics to Gain Insights into the Regulation and Biosynthesis of Medicinal Compounds: Hypericum as a Model. , 2013, , 395-411. | | 3 |
| 93 | Accumulation of the ZRP3 mRNA in the root and coleorhiza of germinating maize (<i>Zemays</i> , Poaceae). American Journal of Botany, 1995, 82, 1083-1088. | 0.8 | 2 |
| 94 | Visualizing Multivariate Hierarchic Data Using Enhanced Radial Space-Filling Layout. Lecture Notes in Computer Science, 2010, , 350-360. | 1.0 | 2 |
| 95 | Accumulation of the ZRP3 mRNA in the Root and Coleorhiza of Germinating Maize (<i>Zea mays</i> , Poaceae). American Journal of Botany, 1995, 82, 1083. | 0.8 | 1 |
| 96 | Echinacea-induced cytosolic Ca ²⁺ elevation in HEK293. BMC Complementary and Alternative Medicine, 2010, 10, 72. | 3.7 | 1 |
| 97 | BirdsEyeView (BEV): graphical overviews of experimental data. BMC Bioinformatics, 2012, 13, S11. | 1.2 | 1 |
| 98 | Biochemical and Molecular Biological Characterization of Biotinylated Proteins of Plants. , 1995, , 49-51. | | 0 |
| 99 | Biochemical and Molecular Biological Characterization of Acetyl-CoA Carboxylases. , 1995, , 39-42. | | 0 |