

Jay Shockey

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,660
citations

516681

16
h-index

610883

24
g-index

26
all docs

26
docs citations

26
times ranked

1764
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The Acyl-CoA Synthetase Encoded by LACS2 Is Essential for Normal Cuticle Development in Arabidopsis. <i>Plant Cell</i> , 2004, 16, 629-642. | 6.6 | 310 |
| 2 | Metabolic engineering of hydroxy fatty acid production in plants: RcDGAT2 drives dramatic increases in ricinoleate levels in seed oil. <i>Plant Biotechnology Journal</i> , 2008, 6, 819-831. | 8.3 | 292 |
| 3 | Two long-chain acyl-CoA synthetases from Arabidopsis thaliana involved in peroxisomal fatty acid β -oxidation. <i>Plant Journal</i> , 2002, 32, 93-103. | 5.7 | 158 |
| 4 | Castor Phospholipid:Diacylglycerol Acyltransferase Facilitates Efficient Metabolism of Hydroxy Fatty Acids in Transgenic Arabidopsis. <i>Plant Physiology</i> , 2011, 155, 683-693. | 4.8 | 157 |
| 5 | Identification of Arabidopsis <i>GPAT9</i> (At5g60620) as an Essential Gene Involved in Triacylglycerol Biosynthesis. <i>Plant Physiology</i> , 2016, 170, 163-179. | 4.8 | 150 |
| 6 | Organ fusion and defective cuticle function in a <i>lacs1 lacs2</i> double mutant of Arabidopsis. <i>Planta</i> , 2010, 231, 1089-1100. | 3.2 | 126 |
| 7 | Genome-level and biochemical diversity of the acyl-activating enzyme superfamily in plants. <i>Plant Journal</i> , 2011, 66, 143-160. | 5.7 | 75 |
| 8 | Reducing Isozyme Competition Increases Target Fatty Acid Accumulation in Seed Triacylglycerols of Transgenic Arabidopsis. <i>Plant Physiology</i> , 2015, 168, 36-46. | 4.8 | 51 |
| 9 | Dedicated Industrial Oilseed Crops as Metabolic Engineering Platforms for Sustainable Industrial Feedstock Production. <i>Scientific Reports</i> , 2016, 6, 22181. | 3.3 | 46 |
| 10 | Tung Tree (<i>Vernicia fordii</i> , Hemsl.) Genome and Transcriptome Sequencing Reveals Co-Ordinate Up-Regulation of Fatty Acid β -Oxidation and Triacylglycerol Biosynthesis Pathways During Eleostearic Acid Accumulation in Seeds. <i>Plant and Cell Physiology</i> , 2018, 59, 1990-2003. | 3.1 | 45 |
| 11 | Specialized lysophosphatidic acid acyltransferases contribute to unusual fatty acid accumulation in exotic Euphorbiaceae seed oils. <i>Planta</i> , 2019, 249, 1285-1299. | 3.2 | 35 |
| 12 | Oil-Producing Metabolons Containing DGAT1 Use Separate Substrate Pools from those Containing DGAT2 or PDAT. <i>Plant Physiology</i> , 2020, 184, 720-737. | 4.8 | 35 |
| 13 | Molecular properties of the class III subfamily of acyl-coenzyme A binding proteins from tung tree (<i>Vernicia fordii</i>). <i>Plant Science</i> , 2013, 203-204, 79-88. | 3.6 | 31 |
| 14 | Development and analysis of a highly flexible multi-gene expression system for metabolic engineering in Arabidopsis seeds and other plant tissues. <i>Plant Molecular Biology</i> , 2015, 89, 113-126. | 3.9 | 27 |
| 15 | Naturally occurring high oleic acid cottonseed oil: identification and functional analysis of a mutant allele of <i>Gossypium barbadense</i> fatty acid desaturase-2. <i>Planta</i> , 2017, 245, 611-622. | 3.2 | 23 |
| 16 | Discovery of a new mechanism for regulation of plant triacylglycerol metabolism: The peanut diacylglycerol acyltransferase-1 gene family transcriptome is highly enriched in alternative splicing variants. <i>Journal of Plant Physiology</i> , 2017, 219, 62-70. | 3.5 | 18 |
| 17 | Variant Amino Acid Residues Alter the Enzyme Activity of Peanut Type 2 Diacylglycerol Acyltransferases. <i>Frontiers in Plant Science</i> , 2017, 8, 1751. | 3.6 | 16 |
| 18 | Gene editing in plants: assessing the variables through a simplified case study. <i>Plant Molecular Biology</i> , 2020, 103, 75-89. | 3.9 | 11 |

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|----|---|-----|-----------|
| 19 | Expression of a lipid-inducible, self-regulating form of <i>Yarrowia lipolytica</i> lipase LIP2 in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 1207-1217. | 3.6 | 10 |
| 20 | Triacylglycerol biosynthesis in shaded seeds of tung tree (<i>Vernicia fordii</i>) is regulated in part by <i>Homeodomain Leucine Zipper 21</i> . <i>Plant Journal</i> , 2021, 108, 1735-1753. | 5.7 | 10 |
| 21 | Functional and Predictive Structural Characterization of WRINKLED2, A Unique Oil Biosynthesis Regulator in Avocado. <i>Frontiers in Plant Science</i> , 2021, 12, 648494. | 3.6 | 9 |
| 22 | Proteomic Analysis of Tung Tree (<i>Vernicia fordii</i>) Oilseeds during the Developmental Stages. <i>Molecules</i> , 2016, 21, 1486. | 3.8 | 8 |
| 23 | Registration of four upland cotton germplasm lines with elevated levels of seed oil oleic acid. <i>Journal of Plant Registrations</i> , 2020, 14, 64-71. | 0.5 | 7 |
| 24 | Tung (<i>Vernicia fordii</i> and <i>Vernicia montana</i>). , 2016, , 243-273. | | 5 |
| 25 | Cyclopropane fatty acid biosynthesis in plants: phylogenetic and biochemical analysis of Litchi Kennedy pathway and acyl editing cycle genes. <i>Plant Cell Reports</i> , 2018, 37, 1571-1583. | 5.6 | 5 |
| 26 | Engineering Industrial Oil Biosynthesis. , 2009, , 19-31. | | 0 |