

R Paul Jarvis

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

5,317
citations

94433

37
h-index

88630

70
g-index

76
all docs

76
docs citations

76
times ranked

4533
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Mutations in the chloroplast inner envelope protein TIC100 impair and repair chloroplast protein import and impact retrograde signaling. <i>Plant Cell</i> , 2022, 34, 3028-3046. | 6.6 | 11 |
| 2 | The chloroplast-associated protein degradation pathway controls chromoplast development and fruit ripening in tomato. <i>Nature Plants</i> , 2021, 7, 655-666. | 9.3 | 51 |
| 3 | Crosstalk between the chloroplast protein import and SUMO systems revealed through genetic and molecular investigation in <i>Arabidopsis</i> . <i>ELife</i> , 2021, 10, . | 6.0 | 9 |
| 4 | Retrograde signalling in a virescent mutant triggers an anterograde delay of chloroplast biogenesis that requires GUN1 and is essential for survival. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190400. | 4.0 | 19 |
| 5 | Chloroplast Autophagy and Ubiquitination Combine to Manage Oxidative Damage and Starvation Responses. <i>Plant Physiology</i> , 2020, 183, 1531-1544. | 4.8 | 38 |
| 6 | Protein import into chloroplasts and its regulation by the ubiquitin-proteasome system. <i>Biochemical Society Transactions</i> , 2020, 48, 71-82. | 3.4 | 35 |
| 7 | Chloroplast Research Methods: Probing The Targeting, Localization And Interactions Of Chloroplast Proteins. <i>Journal of Visualized Experiments</i> , 2019, , . | 0.3 | 2 |
| 8 | Differentiation of chromoplasts and other plastids in plants. <i>Plant Cell Reports</i> , 2019, 38, 803-818. | 5.6 | 87 |
| 9 | Control of retrograde signalling by protein import and cytosolic folding stress. <i>Nature Plants</i> , 2019, 5, 525-538. | 9.3 | 109 |
| 10 | Ubiquitin-dependent chloroplast-associated protein degradation in plants. <i>Science</i> , 2019, 363, . | 12.6 | 110 |
| 11 | Abiotic stress-induced chloroplast proteome remodelling: a mechanistic overview. <i>Journal of Experimental Botany</i> , 2018, 69, 2773-2781. | 4.8 | 44 |
| 12 | The role of chloroplasts in plant pathology. <i>Essays in Biochemistry</i> , 2018, 62, 21-39. | 4.7 | 43 |
| 13 | Suppressors of the Chloroplast Protein Import Mutant <i>tic40</i> Reveal a Genetic Link between Protein Import and Thylakoid Biogenesis. <i>Plant Cell</i> , 2017, 29, 1726-1747. | 6.6 | 24 |
| 14 | Isolation and Suborganellar Fractionation of <i>Arabidopsis</i> Chloroplasts. <i>Methods in Molecular Biology</i> , 2017, 1511, 45-60. | 0.9 | 22 |
| 15 | Chloroplast Ubiquitin E3 Ligase SP1: Does It Really Function in Peroxisomes?. <i>Plant Physiology</i> , 2017, 175, 586-588. | 4.8 | 20 |
| 16 | Functional Analysis of the Hsp93/ClpC Chaperone at the Chloroplast Envelope. <i>Plant Physiology</i> , 2016, 170, 147-162. | 4.8 | 54 |
| 17 | New Insights Into Roles of Ubiquitin Modification in Regulating Plastids and Other Endosymbiotic Organelles. <i>International Review of Cell and Molecular Biology</i> , 2016, 325, 1-33. | 3.2 | 7 |
| 18 | Analysis of Protein Import into Chloroplasts Isolated from Stressed Plants. <i>Journal of Visualized Experiments</i> , 2016, , . | 0.3 | 9 |

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|----|--|------|-----------|
| 19 | Plant Signaling: Ubiquitin Pulls the Trigger on Chloroplast Degradation. <i>Current Biology</i> , 2016, 26, R38-R40. | 3.9 | 20 |
| 20 | Genetic and Physical Interaction Studies Reveal Functional Similarities between ALBINO3 and ALBINO4 in <i>Arabidopsis</i> Å. <i>Plant Physiology</i> , 2015, 169, 1292-1306. | 4.8 | 17 |
| 21 | Functions of plastid protein import and the ubiquitin-proteasome system in plastid development. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 939-948. | 1.0 | 33 |
| 22 | Regulation of Chloroplast Protein Import by the Ubiquitin E3 Ligase SP1 Is Important for Stress Tolerance in Plants. <i>Current Biology</i> , 2015, 25, 2527-2534. | 3.9 | 113 |
| 23 | Mechanisms of Chloroplast Protein Import in Plants. , 2014, , 241-270. | | 4 |
| 24 | The Ins and Outs of Chloroplast Protein Transport. <i>Advances in Photosynthesis and Respiration</i> , 2013, , 239-280. | 1.0 | 0 |
| 25 | Biogenesis and homeostasis of chloroplasts and other plastids. <i>Nature Reviews Molecular Cell Biology</i> , 2013, 14, 787-802. | 37.0 | 581 |
| 26 | Dynamic regulation of endosymbiotic organelles by ubiquitination. <i>Trends in Cell Biology</i> , 2013, 23, 399-408. | 7.9 | 28 |
| 27 | Molecular chaperone involvement in chloroplast protein import. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 332-340. | 4.1 | 111 |
| 28 | The ubiquitin-proteasome system regulates chloroplast biogenesis. <i>Communicative and Integrative Biology</i> , 2013, 6, e23001. | 1.4 | 7 |
| 29 | Evolutionary, Molecular and Genetic Analyses of Tic22 Homologues in <i>Arabidopsis thaliana</i> Chloroplasts. <i>PLoS ONE</i> , 2013, 8, e63863. | 2.5 | 18 |
| 30 | Neofunctionalization within the Omp85 protein superfamily during chloroplast evolution. <i>Plant Signaling and Behavior</i> , 2012, 7, 161-164. | 2.4 | 20 |
| 31 | Chloroplast Biogenesis Is Regulated by Direct Action of the Ubiquitin-Proteasome System. <i>Science</i> , 2012, 338, 655-659. | 12.6 | 221 |
| 32 | Studying <i>Arabidopsis</i> Chloroplast Structural Organisation Using Transmission Electron Microscopy. <i>Methods in Molecular Biology</i> , 2011, 774, 113-132. | 0.9 | 14 |
| 33 | Rapid Isolation of <i>Arabidopsis</i> Chloroplasts and Their Use for In Vitro Protein Import Assays. <i>Methods in Molecular Biology</i> , 2011, 774, 281-305. | 0.9 | 24 |
| 34 | Dimerization of TOC receptor GTPases and its implementation for the control of protein import into chloroplasts. <i>Biochemical Journal</i> , 2011, 436, e1-e2. | 3.7 | 11 |
| 35 | Molecular and genetic analyses of Tic20 homologues in <i>Arabidopsis thaliana</i> chloroplasts. <i>Plant Journal</i> , 2011, 66, 877-889. | 5.7 | 57 |
| 36 | Use of a SPAD-502 meter to measure leaf chlorophyll concentration in <i>Arabidopsis thaliana</i> . <i>Photosynthesis Research</i> , 2011, 107, 209-214. | 2.9 | 308 |

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|----|---|-----|-----------|
| 37 | The Tic20 gene family. <i>Plant Signaling and Behavior</i> , 2011, 6, 1046-1048. | 2.4 | 9 |
| 38 | In Vivo Analyses of the Roles of Essential Omp85-Related Proteins in the Chloroplast Outer Envelope Membrane. <i>Plant Physiology</i> , 2011, 157, 147-159. | 4.8 | 49 |
| 39 | The Stromal Processing Peptidase of Chloroplasts is Essential in Arabidopsis, with Knockout Mutations Causing Embryo Arrest after the 16-Cell Stage. <i>PLoS ONE</i> , 2011, 6, e23039. | 2.5 | 37 |
| 40 | Nucleotide binding and dimerization at the chloroplast pre-protein import receptor, atToc33, are not essential <i>in vivo</i> but do increase import efficiency. <i>Plant Journal</i> , 2010, 63, 297-311. | 5.7 | 34 |
| 41 | In vivo Studies on the Roles of Tic55-Related Proteins in Chloroplast Protein Import in Arabidopsis thaliana. <i>Molecular Plant</i> , 2009, 2, 1397-1409. | 8.3 | 28 |
| 42 | Targeting of nucleus-encoded proteins to chloroplasts in plants. <i>New Phytologist</i> , 2008, 179, 257-285. | 7.3 | 332 |
| 43 | A role for <i>SENSITIVE TO FREEZING2</i> in protecting chloroplasts against freeze-induced damage in Arabidopsis. <i>Plant Journal</i> , 2008, 55, 734-745. | 5.7 | 79 |
| 44 | Isolation and Preparation of Chloroplasts from Arabidopsis thaliana Plants. <i>Methods in Molecular Biology</i> , 2008, 425, 171-186. | 0.9 | 40 |
| 45 | The Omp85-Related Chloroplast Outer Envelope Protein OEP80 Is Essential for Viability in Arabidopsis. <i>Plant Physiology</i> , 2008, 148, 235-245. | 4.8 | 77 |
| 46 | A Mutant Impaired in the Production of Plastome-Encoded Proteins Uncovers a Mechanism for the Homeostasis of Isoprenoid Biosynthetic Enzymes in Arabidopsis Plastids. <i>Plant Cell</i> , 2008, 20, 1303-1315. | 6.6 | 159 |
| 47 | Two distinct Omp85 paralogs in the chloroplast outer envelope membrane are essential for embryogenesis in Arabidopsis thaliana. <i>Plant Signaling and Behavior</i> , 2008, 3, 1134-1135. | 2.4 | 14 |
| 48 | Monogalactosyldiacylglycerol Deficiency in Arabidopsis Affects Pigment Composition in the Prolamellar Body and Impairs Thylakoid Membrane Energization and Photoprotection in Leaves. <i>Plant Physiology</i> , 2008, 148, 580-592. | 4.8 | 118 |
| 49 | Chloroplast Biogenesis: Control of Plastid Development, Protein Import, Division and Inheritance. <i>The Arabidopsis Book</i> , 2008, 6, e0110. | 0.5 | 129 |
| 50 | Functional Similarity between the Chloroplast Translocon Component, Tic40, and the Human Co-chaperone, Hsp70-interacting Protein (Hip). <i>Journal of Biological Chemistry</i> , 2007, 282, 21404-21414. | 3.4 | 60 |
| 51 | Further in vivo studies on the role of the molecular chaperone, Hsp93, in plastid protein import. <i>Plant Journal</i> , 2007, 50, 364-379. | 5.7 | 114 |
| 52 | Toc64/OEP64 is not essential for the efficient import of proteins into chloroplasts in Arabidopsis thaliana. <i>Plant Journal</i> , 2007, 52, 53-68. | 5.7 | 75 |
| 53 | Intracellular Signalling: Chloroplast Backchat. <i>Current Biology</i> , 2007, 17, R552-R555. | 3.9 | 9 |
| 54 | In vivo assessment of the significance of phosphorylation of the Arabidopsis chloroplast protein import receptor, atToc33. <i>FEBS Letters</i> , 2006, 580, 649-655. | 2.8 | 34 |

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|----|--|-----|-----------|
| 55 | <i>In vivo</i> studies on the roles of Tic110, Tic40 and Hsp93 during chloroplast protein import. Plant Journal, 2005, 41, 412-428. | 5.7 | 189 |
| 56 | A Molecular-Genetic Study of the Arabidopsis Toc75 Gene Family. Plant Physiology, 2005, 138, 715-733. | 4.8 | 117 |
| 57 | Recognition and envelope translocation of chloroplast preproteins. Journal of Experimental Botany, 2005, 56, 2287-2320. | 4.8 | 96 |
| 58 | Functional Specialization amongst the Arabidopsis Toc159 Family of Chloroplast Protein Import Receptors[W]. Plant Cell, 2004, 16, 2059-2077. | 6.6 | 184 |
| 59 | An outer envelope membrane component of the plastid protein import apparatus plays an essential role in Arabidopsis. Plant Journal, 2004, 38, 93-106. | 5.7 | 101 |
| 60 | Organelle Proteomics: Chloroplasts in the Spotlight. Current Biology, 2004, 14, R317-R319. | 3.9 | 47 |
| 61 | Mechanisms of Protein Import and Routing in Chloroplasts. Current Biology, 2004, 14, R1064-R1077. | 3.9 | 142 |
| 62 | Intracellular Signalling: The Language of the Chloroplast. Current Biology, 2003, 13, R314-R316. | 3.9 | 28 |
| 63 | Unusual nucleotide-binding properties of the chloroplast protein import receptor, atToc33. FEBS Letters, 2003, 544, 79-85. | 2.8 | 25 |
| 64 | The Arabidopsis <i>ppi1</i> Mutant Is Specifically Defective in the Expression, Chloroplast Import, and Accumulation of Photosynthetic Proteins[W]. Plant Cell, 2003, 15, 1859-1871. | 6.6 | 153 |
| 65 | A simple method for isolating import-competent Arabidopsis chloroplasts. FEBS Letters, 2002, 529, 215-220. | 2.8 | 177 |
| 66 | New Arabidopsis <i>cue</i> Mutants Suggest a Close Connection between Plastid- and Phytochrome Regulation of Nuclear Gene Expression. Plant Physiology, 1998, 118, 803-815. | 4.8 | 109 |
| 67 | Integration of CAPS markers into the RFLP map generated using recombinant inbred lines of Arabidopsis thaliana. Plant Molecular Biology, 1994, 24, 685-687. | 3.9 | 57 |
| 68 | Cloning and characterisation of an oleosin gene from Brassica napus. Plant Molecular Biology, 1992, 19, 443-453. | 3.9 | 46 |
| 69 | Nucleotide sequence and temporal regulation of a seed-specific Brassica napus cDNA encoding a stearyl-acyl carrier protein (ACP) desaturase. Plant Molecular Biology, 1992, 20, 151-155. | 3.9 | 62 |