Norbert Rolland

List of Publications by Year
in descending order

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81 papers	6,804 citations	81900 39 h-index	71685 76 g-index
81 all docs	81 docs citations	81 times ranked	7194 citing authors

#	Article	IF	Citations
1	Designing the Crops for the Future; The CropBooster Program. Biology, 2021, 10, 690.	2.8	12
2	Current status of the multinational Arabidopsis community. Plant Direct, 2020, 4, e00248.	1.9	13
3	Unraveling Hidden Components of the Chloroplast Envelope Proteome: Opportunities and Limits of Better MS Sensitivity. Molecular and Cellular Proteomics, 2019, 18, 1285-1306.	3.8	58
4	Calmodulin is involved in the dual subcellular location of two chloroplast proteins. Journal of Biological Chemistry, 2019, 294, 17543-17554.	3.4	6
5	Preparation of Membrane Fractions (Envelope, Thylakoids, Grana, and Stroma Lamellae) from Arabidopsis Chloroplasts for Quantitative Proteomic Investigations and Other Studies. Methods in Molecular Biology, 2018, 1696, 117-136.	0.9	8
6	Preparation of Chloroplast Sub-compartments from Arabidopsis for the Analysis of Protein Localization by Immunoblotting or Proteomics. Journal of Visualized Experiments, 2018, , .	0.3	5
7	AT_CHLORO: The First Step When Looking for Information About Subplastidial Localization of Proteins. Methods in Molecular Biology, 2018, 1829, 395-406.	0.9	13
8	The Main Functions of Plastids. Methods in Molecular Biology, 2018, 1829, 73-85.	0.9	15
9	ChloroKB: A Web Application for the Integration of Knowledge Related to Chloroplast Metabolic Network. Plant Physiology, 2017, 174, 922-934.	4.8	23
10	Crystal Structure of the Chloroplastic Oxoene Reductase ceQORH from Arabidopsis thaliana. Frontiers in Plant Science, 2017, 8, 329.	3.6	6
11	Structural Insights into the Nucleotide-Binding Domains of the P1B-type ATPases HMA6 and HMA8 from Arabidopsis thaliana. PLoS ONE, 2016, 11, e0165666.	2.5	9
12	No plastidial calmodulin-like proteins detected by two targeted mass-spectrometry approaches and GFP fusion proteins. New Negatives in Plant Science, 2016, 3-4, 19-26.	0.9	5
13	Membrane Protein Production in Lactococcus lactis for Functional Studies. Methods in Molecular Biology, 2016, 1432, 79-101.	0.9	2
14	Identification of Two Conserved Residues Involved in Copper Release from Chloroplast PIB-1-ATPases. Journal of Biological Chemistry, 2016, 291, 20136-20148.	3.4	7
15	The chloroplast membrane associated ceQORH putative quinone oxidoreductase reduces long-chain, stress-related oxidized lipids. Phytochemistry, 2016, 122, 45-55.	2.9	16
16	HMA6 and HMA8 are two chloroplast Cu+-ATPases with different enzymatic properties. Bioscience Reports, 2015, 35, .	2.4	20
17	Structural and enzymatic kinetic studies of the chloroplast gamma-ketol reductase fromArabidopsis thaliana. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s235-s235.	0.1	0
18	In vivo spectroscopy and NMR metabolite fingerprinting approaches to connect the dynamics of photosynthetic and metabolic phenotypes in resurrection plant Haberlea rhodopensis during desiccation and recovery. Frontiers in Plant Science, 2015, 6, 564.	3.6	37

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19	Analytical ultracentrifugation and preliminary X-ray studies of the chloroplast envelope quinone oxidoreductase homologue fromArabidopsis thaliana. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 455-458.	0.8	2
20	Ions channels/transporters and chloroplast regulation. Cell Calcium, 2015, 58, 86-97.	2.4	111
21	Functional Expression of Plant Membrane Proteins in Lactococcus lactis. Methods in Molecular Biology, 2015, 1258, 147-165.	0.9	1
22	Glycerolipids in photosynthesis: Composition, synthesis and trafficking. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 470-480.	1.0	296
23	HMA1 and PAA1, two chloroplast-envelope PIB-ATPases, play distinct roles in chloroplast copper homeostasis. Journal of Experimental Botany, 2014, 65, 1529-1540.	4.8	60
24	Lactococcus lactis: Recent Developments in Functional Expression of Membrane Proteins. , 2014, , 107-132.		4
25	Deciphering Thylakoid Sub-compartments using a Mass Spectrometry-based Approach. Molecular and Cellular Proteomics, 2014, 13, 2147-2167.	3.8	96
26	Complementary biochemical approaches applied to the identification of plastidial calmodulin-binding proteins. Molecular BioSystems, 2013, 9, 1234.	2.9	14
27	AT_CHLORO: A Chloroplast Protein Database Dedicated to Sub-Plastidial Localization. Frontiers in Plant Science, 2012, 3, 205.	3.6	48
28	PredAlgo: A New Subcellular Localization Prediction Tool Dedicated to Green Algae. Molecular Biology and Evolution, 2012, 29, 3625-3639.	8.9	270
29	The Biosynthetic Capacities of the Plastids and Integration Between Cytoplasmic and Chloroplast Processes. Annual Review of Genetics, 2012, 46, 233-264.	7.6	115
30	Subcellular and Sub-organellar Proteomics as a Complementary Tool to Study the Evolution of the Plastid Proteome. , 2012, , 217-238.		4
31	Oligomeric Status and Nucleotide Binding Properties of the Plastid ATP/ADP Transporter 1: Toward a Molecular Understanding of the Transport Mechanism. PLoS ONE, 2012, 7, e32325.	2.5	9
32	Expression of a chloroplast ATP/ADP transporter in E. coli membranes: Behind the Mistic strategy. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2059-2066.	2.6	18
33	Preparation of Envelope Membrane Fractions from Arabidopsis Chloroplasts for Proteomic Analysis and Other Studies. Methods in Molecular Biology, 2011, 775, 189-206.	0.9	11
34	Plant organelle proteomics: Collaborating for optimal cell function. Mass Spectrometry Reviews, 2011, 30, 772-853.	5.4	89
35	MASCP Gator: An Aggregation Portal for the Visualization of Arabidopsis Proteomics Data. Plant Physiology, 2011, 155, 259-270.	4.8	94
36	Biochemical Characterization of AtHMA6/PAA1, a Chloroplast Envelope Cu(I)-ATPase. Journal of Biological Chemistry, 2011, 286, 36188-36197.	3.4	54

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37	Heterologous Expression of Membrane Proteins: Choosing the Appropriate Host. PLoS ONE, 2011, 6, e29191.	2.5	109
38	Lactococcus lactis, an Alternative System for Functional Expression of Peripheral and Intrinsic Arabidopsis Membrane Proteins. PLoS ONE, 2010, 5, e8746.	2.5	33
39	Chloroplast proteomics highlights the subcellular compartmentation of lipid metabolism. Progress in Lipid Research, 2010, 49, 128-158.	11.6	153
40	AT_CHLORO, a Comprehensive Chloroplast Proteome Database with Subplastidial Localization and Curated Information on Envelope Proteins. Molecular and Cellular Proteomics, 2010, 9, 1063-1084.	3.8	425
41	Membrane Protein Expression in Lactococcus lactis. Methods in Molecular Biology, 2010, 601, 67-85.	0.9	23
42	A Proteomic Survey of Chlamydomonas reinhardtii Mitochondria Sheds New Light on the Metabolic Plasticity of the Organelle and on the Nature of the Â-Proteobacterial Mitochondrial Ancestor. Molecular Biology and Evolution, 2009, 26, 1533-1548.	8.9	172
43	Chloroplast Proteomics and the Compartmentation of Plastidial Isoprenoid Biosynthetic Pathways. Molecular Plant, 2009, 2, 1154-1180.	8.3	199
44	Chlamydomonas proteomics. Current Opinion in Microbiology, 2009, 12, 285-291.	5.1	51
45	The Chloroplast Envelope Proteome and Lipidome. Plant Cell Monographs, 2009, , 41-88.	0.4	8
46	Percoll-purified and photosynthetically active chloroplasts from Arabidopsis thaliana leaves. Plant Physiology and Biochemistry, 2008, 46, 951-955.	5.8	42
47	Purification of Intact Chloroplasts from Arabidopsis and Spinach Leaves by Isopycnic Centrifugation. Current Protocols in Cell Biology, 2008, 40, Unit 3.30.	2.3	34
48	Assessment of Organelle Purity Using Antibodies and Specific Assays. Methods in Molecular Biology, 2008, 432, 345-356.	0.9	6
49	Purification and Proteomic Analysis of Chloroplasts and their Sub-Organellar Compartments. Methods in Molecular Biology, 2008, 432, 19-36.	0.9	41
50	Toc159- and Toc75-independent Import of a Transit Sequence-less Precursor into the Inner Envelope of Chloroplasts. Journal of Biological Chemistry, 2007, 282, 29482-29492.	3.4	77
51	Higher plant chloroplasts import the mRNA coding for the eucaryotic translation initiation factor 4E. FEBS Letters, 2007, 581, 3921-3926.	2.8	22
52	Chloroplast envelope membranes: a dynamic interface between plastids and the cytosol. Photosynthesis Research, 2007, 92, 225-244.	2.9	134
53	Highly active membrane proteins produced in a cell-free expression system. Microbial Cell Factories, 2006, 5, S20.	4.0	0
54	Pyruvate Formate-lyase and a Novel Route of Eukaryotic ATP Synthesis in Chlamydomonas Mitochondria*. Journal of Biological Chemistry, 2006, 281, 9909-9918.	3.4	118

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55	HMA1, a New Cu-ATPase of the Chloro plast Envelope, Is Essential for Growth under Adverse Light Conditions. Journal of Biological Chemistry, 2006, 281, 2882-2892.	3.4	191
56	Purification and Fractionation of Membranes for Proteomic Analyses. , 2006, 323, 403-420.		13
57	A versatile method for deciphering plant membrane proteomes. Journal of Experimental Botany, 2006, 57, 1579-1589.	4.8	33
58	Evidence for a protein transported through the secretory pathway en route to the higher plant chloroplast. Nature Cell Biology, 2005, 7, 1224-1231.	10.3	333
59	A genome-wide transcriptional analysis using Arabidopsis thaliana Affymetrix gene chips determined plant responses to phosphate deprivation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11934-11939.	7.1	834
60	Identification of New Intrinsic Proteins in Arabidopsis Plasma Membrane Proteome. Molecular and Cellular Proteomics, 2004, 3, 675-691.	3.8	233
61	The hydrophobic proteome of mitochondrial membranes from Arabidopsis cell suspensions. Phytochemistry, 2004, 65, 1693-1707.	2.9	135
62	Plant membrane proteomics. Plant Physiology and Biochemistry, 2004, 42, 943-962.	5.8	85
63	Identification and characterization of plant glycerophosphodiester phosphodiesterase. Biochemical Journal, 2004, 379, 601-607.	3.7	27
64	Regulation of the anion channel of the chloroplast envelope from spinach. Journal of Bioenergetics and Biomembranes, 2003, 35, 221-229.	2.3	6
65	Proteomics of chloroplast envelope membranes. Photosynthesis Research, 2003, 78, 205-230.	2.9	63
66	Proteomics of the Chloroplast Envelope Membranes from Arabidopsis thaliana. Molecular and Cellular Proteomics, 2003, 2, 325-345.	3.8	405
67	Integral membrane proteins of the chloroplast envelope: Identification and subcellular localization of new transporters. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11487-11492.	7.1	241
68	Non-canonical Transit Peptide for Import into the Chloroplast. Journal of Biological Chemistry, 2002, 277, 47770-47778.	3.4	154
69	Strategies to identify transport systems in plants. Trends in Plant Science, 2001, 6, 577-585.	8.8	30
70	A new chloroplast envelope carbonic anhydrase activity is induced during acclimation to low inorganic carbon concentrations in Chlamydomonas reinhardtii. Planta, 2001, 213, 286-295.	3.2	22
71	Organic solvent extraction as a versatile procedure to identify hydrophobic chloroplast membrane proteins. Electrophoresis, 2000, 21, 3517-3526.	2.4	152
72	Sulfolipid Is a Potential Candidate for Annexin Binding to the Outer Surface of Chloroplast. Biochemical and Biophysical Research Communications, 2000, 272, 519-524.	2.1	31

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73	Plant ribosome recycling factor homologue is a chloroplastic protein and is bactericidal in Escherichia coli carrying temperature-sensitive ribosome recycling factor. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5464-5469.	7.1	52
74	Differential extraction of hydrophobic proteins from chloroplast envelope membranes: a subcellular-specific proteomic approach to identify rare intrinsic membrane proteins. Plant Journal, 1999, 19, 217-228.	5.7	100
75	Do plastid envelope membranes play a role in the expression of the plastid genome?. Biochimie, 1999, 81, 619-629.	2.6	34
76	The Biochemical Machinery of Plastid Envelope Membranes. Plant Physiology, 1998, 118, 715-723.	4.8	168
77	Disruption of the plastid ycf10 open reading frame affects uptake of inorganic carbon in the chloroplast of Chlamydomonas. EMBO Journal, 1997, 16, 6713-6726.	7.8	107
78	Spinach Chloroplast O-Acetylserine (thiol)-Lyase Exhibits two Catalytically Non-Equivalent Pyridoxal-5'-Phosphate-Containing Active Sites. FEBS Journal, 1996, 236, 272-282.	0.2	31
79	O-Acetylserine(thiol)lyase from Spinach (Spinacia oleracea L) Leaf: cDNA Cloning, Characterization, and Overexpression in Escherichia coli of the Chloroplast Isoform. Archives of Biochemistry and Biophysics, 1993, 300, 213-222.	3.0	53
80	Common sequence motifs coding for higher-plant and prokaryotic O-acetylserine (thiol)-lyases: bacterial origin of a chloroplast transit peptide?. Biochemical Journal, 1993, 293, 829-833.	3.7	11
81	Subcellular Distribution of O-Acetylserine(thiol)lyase in Cauliflower (Brassica oleracea L.) Inflorescence. Plant Physiology, 1992, 98, 927-935.	4.8	62