Dominique Job

List of Publications by Year
in descending order

116 papers	10,002 citations	53794 45 h-index	36028 97 g-index
121 all docs	121 docs citations	121 times ranked	9378 citing authors

#	Article	IF	Citations
1	Seed Germination and Vigor. Annual Review of Plant Biology, 2012, 63, 507-533.	18.7	850
2	The <i>Amborella</i> Genome and the Evolution of Flowering Plants. Science, 2013, 342, 1241089.	12.6	743
3	Proteomic Analysis of Arabidopsis Seed Germination and Priming. Plant Physiology, 2001, 126, 835-848.	4.8	535
4	ROS production and protein oxidation as a novel mechanism for seed dormancy alleviation. Plant Journal, 2007, 50, 452-465.	5.7	407
5	The Effect of Î±-Amanitin on the Arabidopsis Seed Proteome Highlights the Distinct Roles of Stored and Neosynthesized mRNAs during Germination. Plant Physiology, 2004, 134, 1598-1613.	4.8	372
6	Proteome-Wide Characterization of Seed Aging in Arabidopsis: A Comparison between Artificial and Natural Aging Protocols Â. Plant Physiology, 2008, 148, 620-641.	4.8	363
7	Patterns of Protein Oxidation in Arabidopsis Seeds and during Germination Â. Plant Physiology, 2005, 138, 790-802.	4.8	360
8	Proteomic Investigation of the Effect of Salicylic Acid on Arabidopsis Seed Germination and Establishment of Early Defense Mechanisms. Plant Physiology, 2006, 141, 910-923.	4.8	347
9	Proteomics reveals the overlapping roles of hydrogen peroxide and nitric oxide in the acclimation of citrus plants to salinity. Plant Journal, 2009, 60, 795-804.	5.7	341
10	Proteomics of Arabidopsis Seed Germination. A Comparative Study of Wild-Type and Gibberellin-Deficient Seeds. Plant Physiology, 2002, 129, 823-837.	4.8	283
11	Plant secretome: Unlocking secrets of the secreted proteins. Proteomics, 2010, 10, 799-827.	2.2	255
12	Oxidative and nitrosativeâ€based signaling and associated postâ€translational modifications orchestrate the acclimation of citrus plants to salinity stress. Plant Journal, 2012, 72, 585-599.	5.7	255
13	Interactions between serine acetyltransferase and O-acetylserine (thiol) lyase in higher plants . Structural and kinetic properties of the free and bound enzymes. FEBS Journal, 1998, 255, 235-245.	0.2	239
14	Post-genomics dissection of seed dormancy and germination. Trends in Plant Science, 2008, 13, 7-13.	8.8	205
15	Substituent Effect on the Oxidation of Phenols and Aromatic Amines by Horseradish Peroxidase Compound I. FEBS Journal, 1976, 66, 607-614.	0.2	190
16	Protein Repair<scp>l</scp>-Isoaspartyl Methyltransferase1 Is Involved in Both Seed Longevity and Germination Vigor in<i>Arabidopsis</i>. Plant Cell, 2008, 20, 3022-3037.	6.6	173
17	Understanding the role of H₂O₂ during pea seed germination: a combined proteomic and hormone profiling approach. Plant, Cell and Environment, 2011, 34, 1907-1919.	5.7	173
18	Polyamines reprogram oxidative and nitrosative status and the proteome of citrus plants exposed to salinity stress. Plant, Cell and Environment, 2014, 37, 864-885.	5.7	173

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19	Proteomic Analysis of Seed Dormancy in Arabidopsis. Plant Physiology, 2006, 142, 1493-1510.	4.8	150
20	Importance of methionine biosynthesis for Arabidopsis seed germination and seedling growth. Physiologia Plantarum, 2002, 116, 238-247.	5.2	146
21	Dynamic Proteomics Emphasizes the Importance of Selective mRNA Translation and Protein Turnover during Arabidopsis Seed Germination. Molecular and Cellular Proteomics, 2014, 13, 252-268.	3.8	143
22	Role of protein and mRNA oxidation in seed dormancy and germination. Frontiers in Plant Science, 2013, 4, 77.	3.6	136
23	Reaction Mechanisms of Indole-3-acetate Degradation by Peroxidases. A Stopped-Flow and Low-Temperature Spectroscopic Study. FEBS Journal, 1974, 44, 359-374.	0.2	122
24	Proteome-wide characterization of sugarbeet seed vigor and its tissue specific expression. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10262-10267.	7.1	122
25	Secretomes: The fungal strike force. Proteomics, 2013, 13, 597-608.	2.2	116
26	BIOTINMETABOLISM INPLANTS. Annual Review of Plant Biology, 2000, 51, 17-47.	14.3	110
27	Allosteric Activation ofArabidopsisThreonine Synthase byS-Adenosylmethionine. Biochemistry, 1998, 37, 13212-13221.	2.5	106
28	Reboot the system thanks to protein postâ€translational modifications and proteome diversity: How quiescent seeds restart their metabolism to prepare seedling establishment. Proteomics, 2011, 11, 1606-1618.	2.2	100
29	Physiological and proteomic approaches to address the active role of ozone in kiwifruit post-harvest ripening. Journal of Experimental Botany, 2012, 63, 2449-2464.	4.8	97
30	Proteomics reveals potential biomarkers of seed vigor in sugarbeet. Proteomics, 2011, 11, 1569-1580.	2.2	89
31	Cystathionine Î³-synthase from Arabidopsis thaliana: purification and biochemical characterization of the recombinant enzyme overexpressed in Escherichia coli. Biochemical Journal, 1998, 331, 639-648.	3.7	87
32	Interplay between protein carbonylation and nitrosylation in plants. Proteomics, 2013, 13, 568-578.	2.2	83
33	Sugarbeet seed priming: effects of priming conditions on germination, solubilization of 11-S globulin and accumulation of LEA proteins. Seed Science Research, 2000, 10, 243-254.	1.7	77
34	Proteomic Signatures Uncover Hydrogen Peroxide and Nitric Oxide Cross-Talk Signaling Network in Citrus Plants. Journal of Proteome Research, 2010, 9, 5994-6006.	3.7	76
35	A decade of plant proteomics and mass spectrometry: Translation of technical advancements to food security and safety issues. Mass Spectrometry Reviews, 2013, 32, 335-365.	5.4	70
36	Citrus Plants: A Model System for Unlocking the Secrets of NO and ROS-Inspired Priming Against Salinity and Drought. Frontiers in Plant Science, 2016, 7, 229.	3.6	65

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37	RNA polymerases react differently at d(ApG) and d(GpG) adducts in DNA modified by cis-diamminedichloroplatinum(II). Biochemistry, 1992, 31, 1904-1908.	2.5	63
38	Translational plant proteomics: A perspective. Journal of Proteomics, 2012, 75, 4588-4601.	2.4	63
39	The Multiple Facets of Plantâ€"Fungal Interactions Revealed Through Plant and Fungal Secretomics. Frontiers in Plant Science, 2019, 10, 1626.	3.6	62
40	Toward Characterizing Seed Vigor in Alfalfa Through Proteomic Analysis of Germination and Priming. Journal of Proteome Research, 2011, 10, 3891-3903.	3.7	61
41	The solubilization of the basic subunit of sugarbeet seed 11-S globulin during priming and early germination. Seed Science Research, 1997, 7, 225-244.	1.7	59
42	Proteomic analysis of the enhancement of seed vigour in osmoprimed alfalfa seeds germinated under salinity stress. Seed Science Research, 2013, 23, 99-110.	1.7	56
43	Kinetic studies on two isoforms of acetyl-CoA carboxylase from maize leaves. Biochemical Journal, 1996, 318, 997-1006.	3.7	53
44	Inhibition ofp-Hydroxyphenylpyruvate Dioxygenase by the Diketonitrile of Isoxaflutole:Â A Case of Half-Site Reactivityâ€. Biochemistry, 2000, 39, 7501-7507.	2.5	51
45	Proteomics reveal tissueâ€specific features of the cress (<i>Lepidium sativum</i> L.) endosperm cap proteome and its hormoneâ€induced changes during seed germination. Proteomics, 2010, 10, 406-416.	2.2	51
46	Evidence for two catalytically different magnesium-binding sites in acetohydroxy acid isomeroreductase by site-directed mutagenesis. Biochemistry, 1995, 34, 6026-6036.	2.5	47
47	Transcriptome- and proteome-wide analyses of seed germination. Comptes Rendus - Biologies, 2008, 331, 815-822.	0.2	47
48	Cold Stratification and Exogenous Nitrates Entail Similar Functional Proteome Adjustments during <i>Arabidopsis</i> Seed Dormancy Release. Journal of Proteome Research, 2012, 11, 5418-5432.	3.7	46
49	Accuracy of wheat-germ RNA polymerase II. General enzymatic properties and effect of template conformational transition from right-handed B-DNA to left-handed Z-DNA. FEBS Journal, 1992, 206, 49-58.	0.2	44
50	Purification and properties of cystathionine <i>Î²</i>-lyase from <i>Arabidopsis thaliana</i> overexpressed in <i>Escherichia coli</i>. Biochemical Journal, 1996, 320, 383-392.	3.7	44
51	Both the stroma and thylakoid lumen of tobacco chloroplasts are competent for the formation of disulphide bonds in recombinant proteins. Plant Biotechnology Journal, 2007, 6, 071018054227001-???.	8.3	43
52	Beyond plant defense: insights on the potential of salicylic and methylsalicylic acid to contain growth of the phytopathogen Botrytis cinerea. Frontiers in Plant Science, 2015, 6, 859.	3.6	42
53	Proteomic analysis of proteins secreted by Botrytis cinerea in response to heavy metal toxicity. Metallomics, 2012, 4, 835.	2.4	37
54	Sugarbeet seed priming: solubilization of the basic subunit of 11-S globulin in individual seeds. Seed Science Research, 2000, 10, 153-161.	1.7	34

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55	Mechanisms to account for maintenance of the soluble methionine pool in transgenic Arabidopsis plants expressing antisense cystathionine Î³-synthase cDNA. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 2000, 323, 841-851.	0.8	34
56	The major biotinyl protein from Pisum sativum seeds covalently binds biotin at a novel site. Plant Molecular Biology, 1994, 26, 265-273.	3.9	33
57	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
58	Time to articulate a vision for the future of plant proteomics â€" A global perspective: An initiative for establishing the International Plant Proteomics Organization (INPPO). Proteomics, 2011, 11, 1559-1568.	2.2	31
59	Pseudomonas putida KT2440 response to nickel or cobalt induced stress by quantitative proteomics. Metallomics, 2013, 5, 68-79.	2.4	31
60	Amino Acid Metabolism. , 2001, , 167-211.		28
61	Over-expression of cystathionine Î³-synthase in Arabidopsis thaliana leads to increased levels of methionine and S-methylmethionine. Plant Physiology and Biochemistry, 2002, 40, 119-126.	5.8	28
62	Kinetics of formation of the primary compound (compound I) from hydrogen peroxide and turnip peroxidases. Canadian Journal of Biochemistry, 1978, 56, 702-707.	1.4	27
63	Purification and properties of the chloroplastic form of biotin holocarboxylase synthetase from Arabidopsis thaliana overexpressed in Escherichia coli. FEBS Journal, 1998, 258, 586-596.	0.2	27
64	Kinetics of the Two Forms of Acetyl-CoA Carboxylase from Pisum sativum. Correlation of the Substrate Specificity of the Enzymes and Sensitivity Towards Aryloxyphenoxypropionate Herbicides. FEBS Journal, 1994, 225, 1113-1123.	0.2	26
65	ROS Signaling in Seed Dormancy Alleviation. Plant Signaling and Behavior, 2007, 2, 362-364.	2.4	26
66	Plant biotechnology in agriculture. Biochimie, 2002, 84, 1105-1110.	2.6	24
67	Systems-Based Approaches to Unravel Networks and Individual Elements Involved in Apple Superficial Scald. Frontiers in Plant Science, 2020, 11, 8.	3.6	24
68	Kinetic and equilibrium studies of cyanide and fluoride binding to turnip peroxidases. Archives of Biochemistry and Biophysics, 1975, 170, 427-437.	3.0	23
69	Horseradish peroxidase. XXVIII. Formation and reactivity of the alkaline form. Evidence for an enzymeâ€"substrate complex in compound 1 formation. Canadian Journal of Chemistry, 1978, 56, 1327-1334.	1.1	23
70	Effect of harvest time and soaking treatment on cell cycle activity in sugarbeet seeds. Seed Science Research, 1999, 9, 91-99.	1.7	23
71	Resonance Raman study of plant tissue peroxidases Common characteristics in iron coordination environments. BBA - Proteins and Proteomics, 1983, 747, 10-15.	2.1	22
72	Poly(dAT) dependent trinucleotide synthesis catalysed by wheat germ RNA polymerase II. Effects of nucleotide substrates and cordycepin triphosphate. Nucleic Acids Research, 1985, 13, 6155-6170.	14.5	22

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73	Protein biotinylation in higher plants: characterization of biotin holocarboxylase synthetase activity from pea (Pisum sativum) leaves. Biochemical Journal, 1996, 314, 391-395.	3.7	22
74	Kinetic and Mass Spectrometric Analyses of the Interactions between Plant Acetohydroxy Acid Isomeroreductase and Thiadiazole Derivatives. Biochemistry, 1998, 37, 4773-4781.	2.5	22
75	Kinetic Studies of the Reaction of Ferric Soybean Leghemoglobins with Hydrogen Peroxide, Cyanide and Nicotinic Acid. FEBS Journal, 1980, 107, 491-500.	0.2	22
76	The alkaline transition of turnip peroxidases. Archives of Biochemistry and Biophysics, 1977, 179, 95-99.	3.0	21
77	Cloning and expression of the pea gene encoding SBP65, a seed-specific biotinylated protein. Plant Molecular Biology, 1997, 35, 605-621.	3.9	21
78	Compound I Formation with Turnip Peroxidases and Peroxybenzoic Acids. FEBS Journal, 1978, 86, 565-572.	0.2	20
79	The Seed Proteome Web Portal. Frontiers in Plant Science, 2012, 3, 98.	3.6	19
80	Non-processive transcription of poly[d(A-T)] by wheat germ RNA polymerase II. FEBS Letters, 1982, 150, 477-481.	2.8	18
81	Transcription of left-handed Z-DNA templates: increased rate of single-step addition reactions catalyzed by wheat germ RNA polymerase II. Biochemistry, 1988, 27, 6371-6378.	2.5	18
82	Proteomics and Posttranslational Proteomics of Seed Dormancy and Germination. Methods in Molecular Biology, 2011, 773, 215-236.	0.9	18
83	Effect of salts on abortive and productive elongation catalysed by wheat germ RNA polymerase II. Nucleic Acids Research, 1986, 14, 1583-1597.	14.5	17
84	Complex RNA chain elongation kinetics by wheat germ RNA polymerase II. Nucleic Acids Research, 1984, 12, 3303-3320.	14.5	15
85	Enzymatic Properties and Cooperative Effects in the Kinetics of Wheat-Germ RNA Polymerases. FEBS Journal, 1982, 128, 35-39.	0.2	15
86	The Amborella vacuolar processing enzyme family. Frontiers in Plant Science, 2015, 6, 618.	3.6	14
87	Circular dichroism of turnip peroxidases. Canadian Journal of Biochemistry, 1977, 55, 804-811.	1.4	13
88	Evolution of enzyme activity: Is diffusion control important? Activation parameters in the reactions of ferric heme species with hydrogen peroxide. The Journal of Physical Chemistry, 1993, 97, 9259-9262.	2.9	13
89	Crystallization and Preliminary Crystallographic Data for Acetohydroxy Acid Isomeroreductase from Spinacia oleracea. Journal of Molecular Biology, 1994, 242, 578-581.	4.2	13
90	Metabolic Adaptation in Transplastomic Plants Massively Accumulating Recombinant Proteins. PLoS ONE, 2011, 6, e25289.	2.5	12

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91	A Combination of Histological, Physiological, and Proteomic Approaches Shed Light on Seed Desiccation Tolerance of the Basal Angiosperm Amborella trichopoda. Proteomes, 2017, 5, 19.	3.5	11
92	Patterns of protein carbonylation during<i>Medicago truncatula</i>seed maturation. Plant, Cell and Environment, 2018, 41, 2183-2194.	5.7	11
93	Plant Proteomics. Proteomics, 2011, 11, 1557-1558.	2.2	10
94	Boosting the Globalization of Plant Proteomics through INPPO: Current Developments and Future Prospects. Proteomics, 2012, 12, 359-368.	2.2	10
95	ScreenSeed as a novel high throughput seed germination phenotyping method. Scientific Reports, 2021, 11, 1404.	3.3	9
96	Ultrastructural localization of the major biotinylated protein fromPisum sativumseeds. Journal of Experimental Botany, 1995, 46, 1783-1786.	4.8	8
97	Abortive and productive elongation catalysed by purified spinach chloroplast RNA polymerase. FEBS Journal, 1987, 165, 515-519.	0.2	7
98	Potential memory and hysteretic effects in transcription. Journal of Theoretical Biology, 1988, 134, 273-289.	1.7	7
99	Analysis of wheat-germ RNA polymerase II by trypsin cleavage. The integrity of the two largest subunits of the enzyme is not mandatory for basal transcriptional activity. FEBS Journal, 1990, 193, 913-919.	0.2	7
100	Transcription of synthetic DNA containing sequences with dyad symmetry by wheat-germ RNA polymerase II. Increased rates of product release in single-step addition reactions. FEBS Journal, 1991, 195, 831-839.	0.2	7
101	Proteome Analysis for the Study of Developmental Processes in Plants. , 0, , 151-184.		7
102	Plant proteomics in India and Nepal: current status and challenges ahead. Physiology and Molecular Biology of Plants, 2013, 19, 461-477.	3.1	7
103	A wheat-germ nuclear fraction required for selective initiation in vitro confers processivity to wheat-germ rna polymerase II. Plant Science, 1989, 64, 31-38.	3.6	6
104	Proteome of Seed Development and Germination. , 0, , 191-206.		6
105	Enzymatic properties of plant RNA polymerases. Plant Molecular Biology, 1984, 3, 217-225.	3.9	5
106	A nuclear transcription factor related to plastid ribosome biogenesis is synthesised early during germination and priming. FEBS Letters, 2002, 518, 48-52.	2.8	5
107	The seeds of life. Comptes Rendus - Biologies, 2008, 331, 711-714.	0.2	4
108	Proteomics Reveals A Potential Role of the Perisperm in Starch Remobilization During Sugarbeet Seed Germination. , 2012, , 27-41.		4

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109	The use of an ELISA to quantitate the extent of 11S globulin mobilization in untreated and primed sugar beet seed lots. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 1998, 321, 705-711.	0.8	2
110	Protein Damage and Repair Controlling Seed Vigor and Longevity. Methods in Molecular Biology, 2011, 773, 369-384.	0.9	2
111	A Role for â€œOmicsâ€•Technologies in Exploration of the Seed Nutritional Quality. , 2012, , 477-501.		2
112	Are Methionine Sulfoxide-Containing Proteins Related to Seed Longevity? A Case Study of Arabidopsis thaliana Dry Mature Seeds Using Cyanogen Bromide Attack and Two-Dimensional-Diagonal Electrophoresis. Plants, 2022, 11, 569.	3.5	2
113	Comment on â€œThermodynamic Trajectory of Enzyme Evolutionâ€• Journal of Physical Chemistry B, 1997, 101, 4349-4350.	2.6	1
114	INPPO Actions and Recognition as a Driving Force for Progress in Plant Proteomics: Change of Guard, INPPO Update, and Upcoming Activities. Proteomics, 2013, 13, 3093-3100.	2.2	0
115	Biotin Enzymes in Higher Plants. , 1995, , 2897-2900.		0
116	Biosynthesis of Branched-Chain Amino Acids in Plants: Structure and Function of Acetohydroxy Acid Isomeroreductase. , 1995, , 4227-4232.		0