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	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
2	ScreenSeed as a novel high throughput seed germination phenotyping method. Scientific Reports, 2021, 11, 1404.	3.3	9
3	Systems-Based Approaches to Unravel Networks and Individual Elements Involved in Apple Superficial Scald. Frontiers in Plant Science, 2020, 11, 8.	3.6	24
4	The Multiple Facets of Plantâ€“Fungal Interactions Revealed Through Plant and Fungal Secretomics. Frontiers in Plant Science, 2019, 10, 1626.	3.6	62
5	Patterns of protein carbonylation during<i>Medicago truncatula</i>seed maturation. Plant, Cell and Environment, 2018, 41, 2183-2194.	5.7	11
6	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
7	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
8	The Amborella vacuolar processing enzyme family. Frontiers in Plant Science, 2015, 6, 618.	3.6	14
9	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
10	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
11	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
12	The <i>Amborella</i> Genome and the Evolution of Flowering Plants. Science, 2013, 342, 1241089.	12.6	743
13	Plant proteomics in India and Nepal: current status and challenges ahead. Physiology and Molecular Biology of Plants, 2013, 19, 461-477.	3.1	7
14	Secretomes: The fungal strike force. Proteomics, 2013, 13, 597-608.	2.2	116
15	Pseudomonas putida KT2440 response to nickel or cobalt induced stress by quantitative proteomics. Metallomics, 2013, 5, 68-79.	2.4	31
16	Interplay between protein carbonylation and nitrosylation in plants. Proteomics, 2013, 13, 568-578.	2.2	83
17	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
18	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

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19	Role of protein and mRNA oxidation in seed dormancy and germination. Frontiers in Plant Science, 2013, 4, 77.	3.6	136
20	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
21	The Seed Proteome Web Portal. Frontiers in Plant Science, 2012, 3, 98.	3.6	19
22	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
23	Proteomic analysis of proteins secreted by Botrytis cinerea in response to heavy metal toxicity. Metallomics, 2012, 4, 835.	2.4	37
24	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
25	Translational plant proteomics: A perspective. Journal of Proteomics, 2012, 75, 4588-4601.	2.4	63
26	Seed Germination and Vigor. Annual Review of Plant Biology, 2012, 63, 507-533.	18.7	850
27	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
28	Boosting the Globalization of Plant Proteomics through INPPO: Current Developments and Future Prospects. Proteomics, 2012, 12, 359-368.	2.2	10
29	Proteomics Reveals A Potential Role of the Perisperm in Starch Remobilization During Sugarbeet Seed Germination. , 2012, , 27-41.		4
30	A Role for â€œOmicsâ€•Technologies in Exploration of the Seed Nutritional Quality. , 2012, , 477-501.		2
31	Toward Characterizing Seed Vigor in Alfalfa Through Proteomic Analysis of Germination and Priming. Journal of Proteome Research, 2011, 10, 3891-3903.	3.7	61
32	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
33	Proteomics reveals potential biomarkers of seed vigor in sugarbeet. Proteomics, 2011, 11, 1569-1580.	2.2	89
34	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
35	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
36	Plant Proteomics. Proteomics, 2011, 11, 1557-1558.	2.2	10

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37	Proteomics and Posttranslational Proteomics of Seed Dormancy and Germination. Methods in Molecular Biology, 2011, 773, 215-236.	0.9	18
38	Protein Damage and Repair Controlling Seed Vigor and Longevity. Methods in Molecular Biology, 2011, 773, 369-384.	0.9	2
39	Metabolic Adaptation in Transplastomic Plants Massively Accumulating Recombinant Proteins. PLoS ONE, 2011, 6, e25289.	2.5	12
40	Plant secretome: Unlocking secrets of the secreted proteins. Proteomics, 2010, 10, 799-827.	2.2	255
41	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
42	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
43	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
44	Post-genomics dissection of seed dormancy and germination. Trends in Plant Science, 2008, 13, 7-13.	8.8	205
45	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
46	Transcriptome- and proteome-wide analyses of seed germination. Comptes Rendus - Biologies, 2008, 331, 815-822.	0.2	47
47	The seeds of life. Comptes Rendus - Biologies, 2008, 331, 711-714.	0.2	4
48	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
49	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
50	ROS Signaling in Seed Dormancy Alleviation. Plant Signaling and Behavior, 2007, 2, 362-364.	2.4	26
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	ROS production and protein oxidation as a novel mechanism for seed dormancy alleviation. Plant Journal, 2007, 50, 452-465.	5.7	407
53	Proteomic Analysis of Seed Dormancy in Arabidopsis. Plant Physiology, 2006, 142, 1493-1510.	4.8	150
54	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

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55	Patterns of Protein Oxidation in Arabidopsis Seeds and during Germination Â. Plant Physiology, 2005, 138, 790-802.	4.8	360
56	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
57	Proteomics of Arabidopsis Seed Germination. A Comparative Study of Wild-Type and Gibberellin-Deficient Seeds. Plant Physiology, 2002, 129, 823-837.	4.8	283
58	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
59	Plant biotechnology in agriculture. Biochimie, 2002, 84, 1105-1110.	2.6	24
60	Importance of methionine biosynthesis for Arabidopsis seed germination and seedling growth. Physiologia Plantarum, 2002, 116, 238-247.	5.2	146
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	Proteomic Analysis of Arabidopsis Seed Germination and Priming. Plant Physiology, 2001, 126, 835-848.	4.8	535
63	Amino Acid Metabolism. , 2001, , 167-211.		28
64	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
65	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
66	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
67	Inhibition ofp-Hydroxyphenylpyruvate Dioxygenase by the Diketonitrile of Isoxaflutole:Â A Case of Half-Site Reactivityâ€. Biochemistry, 2000, 39, 7501-7507.	2.5	51
68	BIOTINMETABOLISM INPLANTS. Annual Review of Plant Biology, 2000, 51, 17-47.	14.3	110
69	Effect of harvest time and soaking treatment on cell cycle activity in sugarbeet seeds. Seed Science Research, 1999, 9, 91-99.	1.7	23
70	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
71	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
72	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

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73	Kinetic and Mass Spectrometric Analyses of the Interactions between Plant Acetohydroxy Acid Isomeroreductase and Thiadiazole Derivatives. Biochemistry, 1998, 37, 4773-4781.	2.5	22
74	Allosteric Activation ofArabidopsisThreonine Synthase byS-Adenosylmethionine. Biochemistry, 1998, 37, 13212-13221.	2.5	106
75	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
76	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
77	Comment on â€œThermodynamic Trajectory of Enzyme Evolutionâ€ Journal of Physical Chemistry B, 1997, 101, 4349-4350.	2.6	1
78	Cloning and expression of the pea gene encoding SBP65, a seed-specific biotinylated protein. Plant Molecular Biology, 1997, 35, 605-621.	3.9	21
79	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
80	Kinetic studies on two isoforms of acetyl-CoA carboxylase from maize leaves. Biochemical Journal, 1996, 318, 997-1006.	3.7	53
81	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
82	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
83	Ultrastructural localization of the major biotinylated protein fromPisum sativumseeds. Journal of Experimental Botany, 1995, 46, 1783-1786.	4.8	8
84	Evidence for two catalytically different magnesium-binding sites in acetohydroxy acid isomeroreductase by site-directed mutagenesis. Biochemistry, 1995, 34, 6026-6036.	2.5	47
85	Biotin Enzymes in Higher Plants. , 1995, , 2897-2900.		0
86	Biosynthesis of Branched-Chain Amino Acids in Plants: Structure and Function of Acetohydroxy Acid Isomeroreductase. , 1995, , 4227-4232.		0
87	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
88	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
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	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

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91	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
92	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
93	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
94	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
95	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
96	Potential memory and hysteretic effects in transcription. Journal of Theoretical Biology, 1988, 134, 273-289.	1.7	7
97	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
98	Abortive and productive elongation catalysed by purified spinach chloroplast RNA polymerase. FEBS Journal, 1987, 165, 515-519.	0.2	7
99	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
100	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
101	Complex RNA chain elongation kinetics by wheat germ RNA polymerase II. Nucleic Acids Research, 1984, 12, 3303-3320.	14.5	15
102	Enzymatic properties of plant RNA polymerases. Plant Molecular Biology, 1984, 3, 217-225.	3.9	5
103	Resonance Raman study of plant tissue peroxidases Common characteristics in iron coordination environments. BBA - Proteins and Proteomics, 1983, 747, 10-15.	2.1	22
104	Non-processive transcription of poly[d(A-T)] by wheat germ RNA polymerase II. FEBS Letters, 1982, 150, 477-481.	2.8	18
105	Enzymatic Properties and Cooperative Effects in the Kinetics of Wheat-Germ RNA Polymerases. FEBS Journal, 1982, 128, 35-39.	0.2	15
106	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
107	Compound I Formation with Turnip Peroxidases and Peroxybenzoic Acids. FEBS Journal, 1978, 86, 565-572.	0.2	20
108	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

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109	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
110	Circular dichroism of turnip peroxidases. Canadian Journal of Biochemistry, 1977, 55, 804-811.	1.4	13
111	The alkaline transition of turnip peroxidases. Archives of Biochemistry and Biophysics, 1977, 179, 95-99.	3.0	21
112	Substituent Effect on the Oxidation of Phenols and Aromatic Amines by Horseradish Peroxidase Compound I. FEBS Journal, 1976, 66, 607-614.	0.2	190
113	Kinetic and equilibrium studies of cyanide and fluoride binding to turnip peroxidases. Archives of Biochemistry and Biophysics, 1975, 170, 427-437.	3.0	23
114	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
115	Proteome Analysis for the Study of Developmental Processes in Plants. , 0, , 151-184.		7
116	Proteome of Seed Development and Germination. , 0, , 191-206.		6