

# Annick Moing

## List of Publications by Year in descending order

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117  
papers

6,236  
citations

44069

48  
h-index

76900

74  
g-index

122  
all docs

122  
docs citations

122  
times ranked

7614  
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical assessment of metabolism and related growth and quality traits in trout fed spirulina-supplemented plant-based diets. <i>Aquaculture</i> , 2022, 553, 738033.	3.5	3
2	From fruit growth to ripening in plantain: a careful balance between carbohydrate synthesis and breakdown. <i>Journal of Experimental Botany</i> , 2022, 73, 4832-4849.	4.8	5
3	PeakForest: a multi-platform digital infrastructure for interoperable metabolite spectral data and metadata management. <i>Metabolomics</i> , 2022, 18, .	3.0	4
4	Maize metabolome and proteome responses to controlled cold stress partly mimic early sowing effects in the field and differ from those of Arabidopsis. <i>Plant, Cell and Environment</i> , 2021, 44, 1504-1521.	5.7	32
5	Putative imbalanced amino acid metabolism in rainbow trout long term fed a plant-based diet as revealed by <sup>1</sup> H-NMR metabolomics. <i>Journal of Nutritional Science</i> , 2021, 10, e13.	1.9	15
6	Developmental metabolomics to decipher and improve fleshy fruit quality. <i>Advances in Botanical Research</i> , 2021, 98, 3-34.	1.1	6
7	MRSI vs CEST MRI to understand tomato metabolism in ripening fruit: is there a better contrast?. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1251-1257.	3.7	3
8	Leaf metabolomic data of eight sunflower lines and their sixteen hybrids under water deficit. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2021, 28, 42.	1.4	2
9	Modelling predicts tomatoes can be bigger and sweeter if biophysical factors and transmembrane transports are fine-tuned during fruit development. <i>New Phytologist</i> , 2021, 230, 1489-1502.	7.3	12
10	Metabolomics and fish nutrition: a review in the context of sustainable feed development. <i>Reviews in Aquaculture</i> , 2020, 12, 261-282.	9.0	84
11	The Tomato Guanylate-Binding Protein SIGBP1 Enables Fruit Tissue Differentiation by Maintaining Endopolyloid Cells in a Non-Proliferative State. <i>Plant Cell</i> , 2020, 32, 3188-3205.	6.6	17
12	Proton-NMR Metabolomics of Rainbow Trout Fed a Plant-Based Diet Supplemented with Graded Levels of a Protein-Rich Yeast Fraction Reveal Several Metabolic Processes Involved in Growth. <i>Journal of Nutrition</i> , 2020, 150, 2268-2277.	2.9	11
13	Hyperpolarized NMR Metabolomics at Natural <sup>13</sup> C Abundance. <i>Analytical Chemistry</i> , 2020, 92, 14867-14871.	6.5	44
14	Special Issue on "Fruit Metabolism and Metabolomics". <i>Metabolites</i> , 2020, 10, 230.	2.9	2
15	Integrative Metabolomics for Assessing the Effect of Insect ( <i>Hermetia illucens</i> ) Protein Extract on Rainbow Trout Metabolism. <i>Metabolites</i> , 2020, 10, 83.	2.9	27
16	Biomass composition explains fruit relative growth rate and discriminates climacteric from non-climacteric species. <i>Journal of Experimental Botany</i> , 2020, 71, 5823-5836.	4.8	35
17	Model-assisted comparison of sugar accumulation patterns in ten fleshy fruits highlights differences between herbaceous and woody species. <i>Annals of Botany</i> , 2020, 126, 455-470.	2.9	13
18	Omics Data Reveal Putative Regulators of Einkorn Grain Protein Composition under Sulfur Deficiency. <i>Plant Physiology</i> , 2020, 183, 501-516.	4.8	20

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19	Comparative Metabolomics and Molecular Phylogenetics of Melon ( <i>Cucumis melo</i> , Cucurbitaceae) Biodiversity. <i>Metabolites</i> , 2020, 10, 121.	2.9	35
20	Metabolite Fruit Profile Is Altered in Response to Source-Sink Imbalance and Can Be Used as an Early Predictor of Fruit Quality in Nectarine. <i>Frontiers in Plant Science</i> , 2020, 11, 604133.	3.6	9
21	Central Metabolism Is Tuned to the Availability of Oxygen in Developing Melon Fruit. <i>Frontiers in Plant Science</i> , 2019, 10, 594.	3.6	9
22	Fruit Salad in the Lab: Comparing Botanical Species to Help Deciphering Fruit Primary Metabolism. <i>Frontiers in Plant Science</i> , 2019, 10, 836.	3.6	12
23	NMR-Based Tissular and Developmental Metabolomics of Tomato Fruit. <i>Metabolites</i> , 2019, 9, 93.	2.9	18
24	Optimizing 1D 1H-NMR profiling of plant samples for high throughput analysis: extract preparation, standardization, automation and spectra processing. <i>Metabolomics</i> , 2019, 15, 28.	3.0	37
25	Metabolomic characterization of sunflower leaf allows discriminating genotype groups or stress levels with a minimal set of metabolic markers. <i>Metabolomics</i> , 2019, 15, 56.	3.0	17
26	The GMO90+ Project: Absence of Evidence for Biologically Meaningful Effects of Genetically Modified Maize-based Diets on Wistar Rats After 6-Months Feeding Comparative Trial. <i>Toxicological Sciences</i> , 2019, 168, 315-338.	3.1	12
27	Characterization of GMO or glyphosate effects on the composition of maize grain and maize-based diet for rat feeding. <i>Metabolomics</i> , 2018, 14, 36.	3.0	9
28	Mycotoxin Biosynthesis and Central Metabolism Are Two Interlinked Pathways in <i>Fusarium graminearum</i> , as Demonstrated by the Extensive Metabolic Changes Induced by Caffeic Acid Exposure. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	25
29	nmrML: A Community Supported Open Data Standard for the Description, Storage, and Exchange of NMR Data. <i>Analytical Chemistry</i> , 2018, 90, 649-656.	6.5	50
30	Characterizing alternative feeds for rainbow trout ( <i>O. mykiss</i> ) by 1H NMR metabolomics. <i>Metabolomics</i> , 2018, 14, 155.	3.0	18
31	Rat feeding trials: A comprehensive assessment of contaminants in both genetically modified maize and resulting pellets. <i>Food and Chemical Toxicology</i> , 2018, 121, 573-582.	3.6	4
32	Metabotyping of 30 maize hybrids under early-sowing conditions reveals potential marker-metabolites for breeding. <i>Metabolomics</i> , 2018, 14, 132.	3.0	15
33	1H-NMR metabolomic profiling reveals a distinct metabolic recovery response in shoots and roots of temporarily drought-stressed sugar beets. <i>PLoS ONE</i> , 2018, 13, e0196102.	2.5	27
34	A Systems Biology Study in Tomato Fruit Reveals Correlations between the Ascorbate Pool and Genes Involved in Ribosome Biogenesis, Translation, and the Heat-Shock Response. <i>Frontiers in Plant Science</i> , 2018, 9, 137.	3.6	11
35	Putting primary metabolism into perspective to obtain better fruits. <i>Annals of Botany</i> , 2018, 122, 1-21.	2.9	77
36	NMRProcFlow: a graphical and interactive tool dedicated to 1D spectra processing for NMR-based metabolomics. <i>Metabolomics</i> , 2017, 13, 36.	3.0	128

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37	Plant metabolism as studied by NMR spectroscopy. Progress in Nuclear Magnetic Resonance Spectroscopy, 2017, 102-103, 61-97.	7.5	85
38	Large scale studies of the influence of GMO-based corn diet after 6 months of consumption in Wistar rats. Toxicology Letters, 2017, 280, S106.	0.8	0
39	Respiration climacteric in tomato fruits elucidated by constraint-based modelling. New Phytologist, 2017, 213, 1726-1739.	7.3	67
40	Identification of Two New Mechanisms That Regulate Fruit Growth by Cell Expansion in Tomato. Frontiers in Plant Science, 2017, 8, 988.	3.6	25
41	Fortune telling: metabolic markers of plant performance. Metabolomics, 2016, 12, 158.	3.0	89
42	Highly Repeatable Dissolution Dynamic Nuclear Polarization for Heteronuclear NMR Metabolomics. Analytical Chemistry, 2016, 88, 6179-6183.	6.5	57
43	The peach HECATE3-like gene FLESHY plays a double role during fruit development. Plant Molecular Biology, 2016, 91, 97-114.	3.9	24
44	Grape berry development : A review. Oeno One, 2016, 36, 109.	1.4	60
45	<sup>1</sup> H-NMR metabolic profiling of wines from three cultivars, three soil types and two contrasting vintages. Oeno One, 2016, 41, 103.	1.4	4
46	Maturation of nematode-induced galls in Medicago truncatula is related to water status and primary metabolism modifications. Plant Science, 2015, 232, 77-85.	3.6	15
47	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. Metabolomics, 2015, 11, 1587-1597.	3.0	140
48	Absolute quantification of metabolites in tomato fruit extracts by fast 2D NMR. Metabolomics, 2015, 11, 1231-1242.	3.0	50
49	Impact of long-term cadmium exposure on mineral content of Solanum lycopersicum plants: Consequences on fruit production. South African Journal of Botany, 2015, 97, 176-181.	2.5	88
50	Hyperpolarized NMR of plant and cancer cell extracts at natural abundance. Analyst, The, 2015, 140, 5860-5863.	3.5	87
51	Metabolomic profiling in tomato reveals diel compositional changes in fruit affected by source-sink relationships. Journal of Experimental Botany, 2015, 66, 3391-3404.	4.8	62
52	Aluminium stress disrupts metabolic performance of Plantago almogravensis plantlets transiently. BioMetals, 2015, 28, 997-1007.	4.1	2
53	Non-structural carbohydrates in woody plants compared among laboratories. Tree Physiology, 2015, 35, tpv073.	3.1	163
54	Metabolomics in melon: A new opportunity for aroma analysis. Phytochemistry, 2014, 99, 61-72.	2.9	66

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55	Identification of the carotenoid modifying gene <i>PALE YELLOW PETAL 1</i> as an essential factor in xanthophyll esterification and yellow flower pigmentation in tomato ( <i>Solanum lycopersicum</i> ). <i>Plant Journal</i> , 2014, 79, 453-465.	5.7	112
56	High-Resolution 1H-NMR Spectroscopy and Beyond to Explore Plant Metabolome. <i>Advances in Botanical Research</i> , 2013, , 1-66.	1.1	14
57	Deciphering genetic diversity and inheritance of tomato fruit weight and composition through a systems biology approach. <i>Journal of Experimental Botany</i> , 2013, 64, 5737-5752.	4.8	20
58	Metabolomic and elemental profiling of melon fruit quality as affected by genotype and environment. <i>Metabolomics</i> , 2013, 9, 57-77.	3.0	74
59	An efficient spectra processing method for metabolite identification from 1H-NMR metabolomics data. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5049-5061.	3.7	24
60	(Homo)glutathione Deficiency Impairs Root-knot Nematode Development in <i>Medicago truncatula</i> . <i>PLoS Pathogens</i> , 2012, 8, e1002471.	4.7	48
61	Down-regulation of a single auxin efflux transport protein in tomato induces precocious fruit development. <i>Journal of Experimental Botany</i> , 2012, 63, 4901-4917.	4.8	82
62	Genetic dissection of fruit quality traits in the octoploid cultivated strawberry highlights the role of homoeo-QTL in their control. <i>Theoretical and Applied Genetics</i> , 2012, 124, 1059-1077.	3.6	95
63	A genomics and multi-platform metabolomics approach to identify new traits of rice quality in traditional and improved varieties. <i>Metabolomics</i> , 2012, 8, 771-783.	3.0	43
64	New Opportunities in Metabolomics and Biochemical Phenotyping for Plant Systems Biology. , 2012, , .		2
65	Plant Metabolomics and Its Potential for Systems Biology Research. <i>Methods in Enzymology</i> , 2011, 500, 299-336.	1.0	78
66	Enhanced polyamine accumulation alters carotenoid metabolism at the transcriptional level in tomato fruit over-expressing spermidine synthase. <i>Journal of Plant Physiology</i> , 2011, 168, 242-252.	3.5	48
67	Evidence that ACN1 (acetate non-utilizing 1) prevents carbon leakage from peroxisomes during lipid mobilization in <i>Arabidopsis</i> seedlings. <i>Biochemical Journal</i> , 2011, 437, 505-513.	3.7	17
68	Honeydew feeding increased the longevity of two egg parasitoids of the pine processionary moth. <i>Journal of Applied Entomology</i> , 2011, 135, 184-194.	1.8	23
69	Extensive metabolic cross-talk in melon fruit revealed by spatial and developmental combinatorial metabolomics. <i>New Phytologist</i> , 2011, 190, 683-696.	7.3	111
70	Saturating the <i>Prunus</i> (stone fruits) genome with candidate genes for fruit quality. <i>Molecular Breeding</i> , 2011, 28, 667-682.	2.1	53
71	MeRy-B: a web knowledgebase for the storage, visualization, analysis and annotation of plant NMR metabolomic profiles. <i>BMC Plant Biology</i> , 2011, 11, 104.	3.6	54
72	Precautions for Harvest, Sampling, Storage, and Transport of Crop Plant Metabolomics Samples. <i>Methods in Molecular Biology</i> , 2011, 860, 51-63.	0.9	17

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73	Development and mapping of peach candidate genes involved in fruit quality and their transferability and potential use in other Rosaceae species. <i>Tree Genetics and Genomes</i> , 2010, 6, 995-1012.	1.6	23
74	An inter-laboratory comparison demonstrates that [1H]-NMR metabolite fingerprinting is a robust technique for collaborative plant metabolomic data collection. <i>Metabolomics</i> , 2010, 6, 263-273.	3.0	86
75	Carotenoid profiling of tropical root crop chemotypes from Vanuatu, South Pacific. <i>Journal of Food Composition and Analysis</i> , 2010, 23, 763-771.	3.9	32
76	Correlation Network Analysis reveals a sequential reorganization of metabolic and transcriptional states during germination and gene-metabolite relationships in developing seedlings of <i>Arabidopsis</i> . <i>BMC Systems Biology</i> , 2010, 4, 62.	3.0	52
77	Metabolic acclimation to hypoxia revealed by metabolite gradients in melon fruit. <i>Journal of Plant Physiology</i> , 2010, 167, 242-245.	3.5	75
78	Effects of long-term cadmium exposure on growth and metabolomic profile of tomato plants. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 1965-1974.	6.0	96
79	Gene and Metabolite Regulatory Network Analysis of Early Developing Fruit Tissues Highlights New Candidate Genes for the Control of Tomato Fruit Composition and Development. <i>Plant Physiology</i> , 2009, 149, 1505-1528.	4.8	199
80	Phenotypic and fine genetic characterization of the D locus controlling fruit acidity in peach. <i>BMC Plant Biology</i> , 2009, 9, 59.	3.6	53
81	Proton NMR quantitative profiling for quality assessment of greenhouse-grown tomato fruit. <i>Metabolomics</i> , 2009, 5, 183-198.	3.0	51
82	An integrative genomics approach for deciphering the complex interactions between ascorbate metabolism and fruit growth and composition in tomato. <i>Comptes Rendus - Biologies</i> , 2009, 332, 1007-1021.	0.2	30
83	<sup>1</sup> H NMR, GC-MS, and Data Set Correlation for Fruit Metabolomics: Application to Spatial Metabolite Analysis in Melon. <i>Analytical Chemistry</i> , 2009, 81, 2884-2894.	6.5	147
84	Transcriptional and Metabolic Adjustments in ADP-Glucose Pyrophosphorylase-Deficient Maize Kernels. <i>Plant Physiology</i> , 2008, 146, 1553-1570.	4.8	25
85	Physiological impacts of modulating phosphoenolpyruvate carboxylase levels in leaves and seeds of <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 2007, 172, 265-272.	3.6	14
86	Quantitative metabolic profiles of tomato flesh and seeds during fruit development: complementary analysis with ANN and PCA. <i>Metabolomics</i> , 2007, 3, 273-288.	3.0	119
87	Sucrose, Glucose, and Fructose Extraction in Aqueous Carrot Root Extracts Prepared at Different Temperatures by Means of Direct NMR Measurements. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 4681-4686.	5.2	75
88	Microclimate Influence on Mineral and Metabolic Profiles of Grape Berries. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 6765-6775.	5.2	188
89	<sup>1</sup> H NMR metabolite fingerprints of grape berry: Comparison of vintage and soil effects in Bordeaux grapevine growing areas. <i>Analytica Chimica Acta</i> , 2006, 563, 346-352.	5.4	159
90	Development of a second-generation genetic linkage map for peach [ <i>Prunus persica</i> (L.) Batsch] and characterization of morphological traits affecting flower and fruit. <i>Tree Genetics and Genomes</i> , 2006, 3, 1-13.	1.6	121

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91	The Grapevine fleshless berry Mutation. A Unique Genotype to Investigate Differences between Fleshly and Nonfleshy Fruit. <i>Plant Physiology</i> , 2006, 140, 537-547.	4.8	72
92	Sugar Import and Phytopathogenicity of <i>Spiroplasma citri</i> : Glucose and Fructose Play Distinct Roles. <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 33-42.	2.6	60
93	<sup>1</sup> H NMR and Chemometrics To Characterize Mature Grape Berries in Four Wine-Growing Areas in Bordeaux, France. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 6382-6389.	5.2	137
94	Quantitative metabolic profiling by 1-dimensional <sup>1</sup> H-NMR analyses: application to plant genetics and functional genomics. <i>Functional Plant Biology</i> , 2004, 31, 889.	2.1	147
95	Is There a Relation between Changes in Osmolarity of Cherry Fruit Flesh or Skin and Fruit Cracking Susceptibility?. <i>Journal of the American Society for Horticultural Science</i> , 2004, 129, 635-641.	1.0	23
96	Organic Acid Metabolism in Roots of Various Grapevine ( <i>Vitis</i> ) Rootstocks Submitted to Iron Deficiency and Bicarbonate Nutrition. <i>Journal of Plant Nutrition</i> , 2003, 26, 2165-2176.	1.9	47
97	Biochemical Basis of Low Fruit Quality of <i>Prunus davidiana</i> , a Pest and Disease Resistance Donor for Peach Breeding. <i>Journal of the American Society for Horticultural Science</i> , 2003, 128, 55-62.	1.0	20
98	Candidate genes and QTLs for sugar and organic acid content in peach [ <i>Prunus persica</i> (L.) Batsch]. <i>Theoretical and Applied Genetics</i> , 2002, 105, 145-159.	3.6	199
99	Isolation and characterization of six peach cDNAs encoding key proteins in organic acid metabolism and solute accumulation: involvement in regulating peach fruit acidity. <i>Physiologia Plantarum</i> , 2002, 114, 259-270.	5.2	113
100	Biochemical Changes during Fruit Development of Four Strawberry Cultivars. <i>Journal of the American Society for Horticultural Science</i> , 2001, 126, 394-403.	1.0	110
101	Role of phosphoenol pyruvate carboxylase in organic acid accumulation during peach fruit development. <i>Physiologia Plantarum</i> , 2000, 108, 1-10.	5.2	63
102	Phosphoenolpyruvate carboxylase during grape berry development: protein level, enzyme activity and regulation. <i>Functional Plant Biology</i> , 2000, 27, 221.	2.1	22
103	Mapping QTLs controlling fruit quality in peach ( <i>Prunus persica</i> (L.) Batsch). <i>Theoretical and Applied Genetics</i> , 1999, 98, 18-31.	3.6	226
104	Photosynthesis, carbon partitioning and metabolite content during drought stress in peach seedlings. <i>Functional Plant Biology</i> , 1998, 25, 197.	2.1	71
105	Partitioning of photosynthetic carbohydrates in leaves of salt-stressed olive plants. <i>Functional Plant Biology</i> , 1998, 25, 571.	2.1	31
106	Compositional Changes during the Fruit Development of Two Peach Cultivars Differing in Juice Acidity. <i>Journal of the American Society for Horticultural Science</i> , 1998, 123, 770-775.	1.0	90
107	Phloem loading in peach: Symplastic or apoplastic?. <i>Physiologia Plantarum</i> , 1997, 101, 489-496.	5.2	22
108	Phloem loading in peach: Symplastic or apoplastic?. <i>Physiologia Plantarum</i> , 1997, 101, 489-496.	5.2	81

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109	Variability in Sorbitol : Sucrose Ratio in Mature Leaves of Different Prunus Species. Journal of the American Society for Horticultural Science, 1997, 122, 83-90.	1.0	14
110	Modeling Carbon Export Out of Mature Peach Leaves. Plant Physiology, 1994, 106, 591-600.	4.8	42
111	Carbon and nitrogen reserves in prune tree shoots: effect of training system. Scientia Horticulturae, 1994, 57, 99-110.	3.6	8
112	Variations saisonnières des glucides de réserve chez le prunier: relations avec la vigueur. Acta Botanica Gallica, 1993, 140, 443-447.	0.9	0
113	Carbon Fluxes in Mature Peach Leaves. Plant Physiology, 1992, 100, 1878-1884.	4.8	117
114	Carbon and nitrogen partitioning in peach/plum grafts. Tree Physiology, 1992, 10, 81-92.	3.1	38
115	Vigour and non-structural carbohydrates in young prune trees. Scientia Horticulturae, 1992, 51, 197-211.	3.6	27
116	Growth, cambial activity and phloem structure in compatible and incompatible peach/plum grafts. Tree Physiology, 1988, 4, 347-359.	3.1	14
117	Growth and the composition and transport of carbohydrate in compatible and incompatible peach/plum grafts. Tree Physiology, 1987, 3, 345-354.	3.1	27