

# Loic Rajjou

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

5,920  
citations

201674

27  
h-index

223800

46  
g-index

54  
all docs

54  
docs citations

54  
times ranked

6873  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the nutritional quality of pulses via germination. Food Reviews International, 2023, 39, 6011-6044.	8.4	15
2	In-Depth Proteomic Analysis of the Secondary Dormancy Induction by Hypoxia or High Temperature in Barley Grains. Plant and Cell Physiology, 2022, , .	3.1	1
3	Specialized metabolites in seeds. Advances in Botanical Research, 2021, , 35-70.	1.1	6
4	Implications of reactive oxygen and nitrogen species in seed physiology for sustainable crop productivity under changing climate conditions. Current Plant Biology, 2021, 26, 100197.	4.7	27
5	Protein Farnesylation Takes Part in Arabidopsis Seed Development. Frontiers in Plant Science, 2021, 12, 620325.	3.6	5
6	Current status of the multinational Arabidopsis community. Plant Direct, 2020, 4, e00248.	1.9	13
7	The Consequences of a Disruption in Cyto-Nuclear Coadaptation on the Molecular Response to a Nitrate Starvation in Arabidopsis. Plants, 2020, 9, 573.	3.5	0
8	Lost in Translation: Physiological Roles of Stored mRNAs in Seed Germination. Plants, 2020, 9, 347.	3.5	49
9	Plant Defense Stimulator Mediated Defense Activation Is Affected by Nitrate Fertilization and Developmental Stage in Arabidopsis thaliana. Frontiers in Plant Science, 2020, 11, 583.	3.6	14
10	Shotgun Proteomic Analysis Highlights the Roles of Long-Lived mRNAs and De Novo Transcribed mRNAs in Rice Seeds upon Imbibition. Plant and Cell Physiology, 2019, 60, 2584-2596.	3.1	14
11	Combined Proteomic and Metabolomic Profiling of the Arabidopsis thaliana vps29 Mutant Reveals Pleiotropic Functions of the Retromer in Seed Development. International Journal of Molecular Sciences, 2019, 20, 362.	4.1	17
12	Proteomic and lipidomic analyses of the Arabidopsis <i>atg5</i> autophagy mutant reveal major changes in endoplasmic reticulum and peroxisome metabolisms and in lipid composition. New Phytologist, 2019, 223, 1461-1477.	7.3	54
13	Multi-omics Analysis Reveals Sequential Roles for ABA during Seed Maturation. Plant Physiology, 2019, 180, 1198-1218.	4.8	52
14	Novel Cytonuclear Combinations Modify Arabidopsis thaliana Seed Physiology and Vigor. Frontiers in Plant Science, 2019, 10, 32.	3.6	12
15	Novel loci and a role for nitric oxide for seed dormancy and preharvest sprouting in barley. Plant, Cell and Environment, 2019, 42, 1318-1327.	5.7	32
16	NADP-MALIC ENZYME 1 Affects Germination after Seed Storage in <i>Arabidopsis thaliana</i> . Plant and Cell Physiology, 2019, 60, 318-328.	3.1	25
17	Non-thermal DBD plasma array on seed germination of different plant species. Journal Physics D: Applied Physics, 2019, 52, 025401.	2.8	24
18	Integrating proteomics and enzymatic profiling to decipher seed metabolism affected by temperature in seed dormancy and germination. Plant Science, 2018, 269, 118-125.	3.6	33

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19	Increases in activity of proteasome and papain-like cysteine protease in Arabidopsis autophagy mutants: back-up compensatory effect or cell-death promoting effect?. <i>Journal of Experimental Botany</i> , 2018, 69, 1369-1385.	4.8	55
20	<i>Capparis spinosa</i> L. in A Systematic Review: A Xerophilous Species of Multi Values and Promising Potentialities for Agrosystems under the Threat of Global Warming. <i>Frontiers in Plant Science</i> , 2017, 8, 1845.	3.6	56
21	An Integrated "Multi-Omics" Comparison of Embryo and Endosperm Tissue-Specific Features and Their Impact on Rice Seed Quality. <i>Frontiers in Plant Science</i> , 2017, 8, 1984.	3.6	48
22	A Combination of Histological, Physiological, and Proteomic Approaches Shed Light on Seed Desiccation Tolerance of the Basal Angiosperm <i>Amborella trichopoda</i> . <i>Proteomes</i> , 2017, 5, 19.	3.5	11
23	The Arabidopsis <i>DELAY OF GERMINATION 1</i> gene affects <i>ABSCISIC ACID INSENSITIVE 5</i> ( <i>ABI5</i> ) expression and genetically interacts with <i>ABI3</i> during Arabidopsis seed development. <i>Plant Journal</i> , 2016, 85, 451-465.	5.7	143
24	Staying Alive: Molecular Aspects of Seed Longevity. <i>Plant and Cell Physiology</i> , 2016, 57, 660-674.	3.1	260
25	Xyloglucan Metabolism Differentially Impacts the Cell Wall Characteristics of the Endosperm and Embryo during Arabidopsis Seed Germination. <i>Plant Physiology</i> , 2016, 170, 1367-1380.	4.8	41
26	Regulation of mRNA translation controls seed germination and is critical for seedling vigor. <i>Frontiers in Plant Science</i> , 2015, 6, 284.	3.6	25
27	The <i>Amborella</i> vacuolar processing enzyme family. <i>Frontiers in Plant Science</i> , 2015, 6, 618.	3.6	14
28	A role for seed storage proteins in <i>Arabidopsis</i> seed longevity. <i>Journal of Experimental Botany</i> , 2015, 66, 6399-6413.	4.8	127
29	Compartmentation and Dynamics of Flavone Metabolism in Dry and Germinated Rice Seeds. <i>Plant and Cell Physiology</i> , 2014, 55, 1646-1659.	3.1	44
30	Dynamic Proteomics Emphasizes the Importance of Selective mRNA Translation and Protein Turnover during Arabidopsis Seed Germination. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 252-268.	3.8	143
31	The <i>Amborella</i> Genome and the Evolution of Flowering Plants. <i>Science</i> , 2013, 342, 1241089.	12.6	743
32	Interplay between protein carbonylation and nitrosylation in plants. <i>Proteomics</i> , 2013, 13, 568-578.	2.2	83
33	Nitric oxide implication in the control of seed dormancy and germination. <i>Frontiers in Plant Science</i> , 2013, 4, 346.	3.6	101
34	ABA crosstalk with ethylene and nitric oxide in seed dormancy and germination. <i>Frontiers in Plant Science</i> , 2013, 4, 63.	3.6	220
35	The Seed Proteome Web Portal. <i>Frontiers in Plant Science</i> , 2012, 3, 98.	3.6	19
36	Seed Germination and Vigor. <i>Annual Review of Plant Biology</i> , 2012, 63, 507-533.	18.7	850

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37	Cold Stratification and Exogenous Nitrates Entail Similar Functional Proteome Adjustments during <i>Arabidopsis</i> Seed Dormancy Release. <i>Journal of Proteome Research</i> , 2012, 11, 5418-5432.	3.7	46
38	A Role for Omics Technologies in Exploration of the Seed Nutritional Quality. , 2012, , 477-501.		2
39	Reboot the system thanks to protein posttranslational modifications and proteome diversity: How quiescent seeds restart their metabolism to prepare seedling establishment. <i>Proteomics</i> , 2011, 11, 1606-1618.	2.2	100
40	Proteomics and Posttranslational Proteomics of Seed Dormancy and Germination. <i>Methods in Molecular Biology</i> , 2011, 773, 215-236.	0.9	18
41	<i>Arabidopsis</i> seed secrets unravelled after a decade of genetic and omics-driven research. <i>Plant Journal</i> , 2010, 61, 971-981.	5.7	161
42	Proteomics reveals the overlapping roles of hydrogen peroxide and nitric oxide in the acclimation of citrus plants to salinity. <i>Plant Journal</i> , 2009, 60, 795-804.	5.7	341
43	Natural modifiers of seed longevity in the <i>Arabidopsis</i> mutants <i>abscisic acid insensitive3</i> ( <i>abi3</i> ) and <i>leafy cotyledon1</i> ( <i>lec1</i> ). <i>New Phytologist</i> , 2009, 184, 898-908.	7.3	65
44	Seed longevity: Survival and maintenance of high germination ability of dry seeds. <i>Comptes Rendus - Biologies</i> , 2008, 331, 796-805.	0.2	331
45	Proteome-Wide Characterization of Seed Aging in <i>Arabidopsis</i> : A Comparison between Artificial and Natural Aging Protocols. <i>Plant Physiology</i> , 2008, 148, 620-641.	4.8	363
46	Proteomic Investigation of the Effect of Salicylic Acid on <i>Arabidopsis</i> Seed Germination and Establishment of Early Defense Mechanisms. <i>Plant Physiology</i> , 2006, 141, 910-923.	4.8	347
47	Patterns of Protein Oxidation in <i>Arabidopsis</i> Seeds and during Germination. <i>Plant Physiology</i> , 2005, 138, 790-802.	4.8	360
48	The Effect of $\pm$ -Amanitin on the <i>Arabidopsis</i> Seed Proteome Highlights the Distinct Roles of Stored and Neosynthesized mRNAs during Germination. <i>Plant Physiology</i> , 2004, 134, 1598-1613.	4.8	372
49	Proteome Analysis for the Study of Developmental Processes in Plants. , 0, , 151-184.		7
50	Proteome of Seed Development and Germination. , 0, , 191-206.		6
51	Multi-Omics Approaches Unravel Specific Features of Embryo and Endosperm in Rice Seed Germination. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	9