Sandrine Ruffel

List of Publications by Year
in descending order

32 papers	3,224 citations	236925 / 25 h-index	434195 / 31 g-index
35 all docs	35 docs citations	35 times ranked	3217 citing authors

#	Article	IF	Citations
1	Nitrogen economics of root foraging: Transitive closure of the nitrateâ€“cytokinin relay and distinct systemic signaling for N supply vs. demand. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18524-18529.	7.1	333
2	A natural recessive resistance gene against potato virus Y in pepper corresponds to the eukaryotic initiation factor 4E (eIF4E). Plant Journal, 2002, 32, 1067-1075.	5.7	310
3	A framework integrating plant growth with hormones and nutrients. Trends in Plant Science, 2011, 16, 178-182.	8.8	255
4	Systems approach identifies <scp>TGA</scp>1 and <scp>TGA</scp>4 transcription factors as important regulatory components of the nitrate response of <i><scp>A</scp>rabidopsis thaliana</i> roots. Plant Journal, 2014, 80, 1-13.	5.7	247
5	Nitrate in 2020: Thirty Years from Transport to Signaling Networks. Plant Cell, 2020, 32, 2094-2119.	6.6	203
6	AtNIGT1/HRS1 integrates nitrate and phosphate signals at the Arabidopsis root tip. Nature Communications, 2015, 6, 6274.	12.8	195
7	Temporal transcriptional logic of dynamic regulatory networks underlying nitrogen signaling and use in plants. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6494-6499.	7.1	150
8	Simultaneous mutations in translation initiation factors eIF4E and eIF(iso)4E are required to prevent pepper veinal mottle virus infection of pepper. Journal of General Virology, 2006, 87, 2089-2098.	2.9	140
9	Adaptation of <i>Medicago truncatula</i> to nitrogen limitation is modulated via local and systemic nodule developmental responses. New Phytologist, 2010, 185, 817-828.	7.3	140
10	Systemic Signaling of the Plant Nitrogen Status Triggers Specific Transcriptome Responses Depending on the Nitrogen Source in <i>Medicago truncatula</i> Â Â. Plant Physiology, 2008, 146, 2020-2035.	4.8	136
11	Identification of Molecular Integrators Shows that Nitrogen Actively Controls the Phosphate Starvation Response in Plants. Plant Cell, 2019, 31, 1171-1184.	6.6	135
12	Responses to Systemic Nitrogen Signaling in Arabidopsis Roots Involve <i>trans</i>-Zeatin in Shoots. Plant Cell, 2018, 30, 1243-1257.	6.6	134
13	HIGH NITROGEN INSENSITIVE 9 (HNI9)-mediated systemic repression of root NO ₃ ^{âˆ’} uptake is associated with changes in histone methylation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13329-13334.	7.1	108
14	Signal interactions in the regulation of root nitrate uptake. Journal of Experimental Botany, 2014, 65, 5509-5517.	4.8	81
15	Combinatorial interaction network of transcriptomic and phenotypic responses to nitrogen and hormones in the <i>Arabidopsis thaliana</i> root. Science Signaling, 2016, 9, rs13.	3.6	81
16	TARGET: A Transient Transformation System for Genome-Wide Transcription Factor Target Discovery. Molecular Plant, 2013, 6, 978-980.	8.3	73
17	The world according to GARP transcription factors. Current Opinion in Plant Biology, 2017, 39, 159-167.	7.1	72
18	RootScape: A Landmark-Based System for Rapid Screening of Root Architecture in Arabidopsis Â Â. Plant Physiology, 2013, 161, 1086-1096.	4.8	59

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19	Longâ€distance nitrate signaling displays cytokinin dependent and independent branches. Journal of Integrative Plant Biology, 2016, 58, 226-229.	8.5	57
20	Nitrogen Systemic Signaling: From Symbiotic Nodulation to Root Acquisition. Trends in Plant Science, 2021, 26, 392-406.	8.8	39
21	Nutrient-Related Long-Distance Signals: Common Players and Possible Cross-Talk. Plant and Cell Physiology, 2018, 59, 1723-1732.	3.1	38
22	Finding a nitrogen niche: a systems integration of local and systemic nitrogen signalling in plants. Journal of Experimental Botany, 2014, 65, 5601-5610.	4.8	36
23	A Systems View of Responses to Nutritional Cues in Arabidopsis: Toward a Paradigm Shift for Predictive Network Modeling. Plant Physiology, 2010, 152, 445-452.	4.8	34
24	Structural analysis of the eukaryotic initiation factor 4E gene controlling potyvirus resistance in pepper: exploitation of a BAC library. Gene, 2004, 338, 209-216.	2.2	30
25	SDG8-Mediated Histone Methylation and RNA Processing Function in the Response to Nitrate Signaling. Plant Physiology, 2020, 182, 215-227.	4.8	30
26	GARP transcription factors repress Arabidopsis nitrogen starvation response via ROS-dependent and -independent pathways. Journal of Experimental Botany, 2021, 72, 3881-3901.	4.8	27
27	Nitrate signaling promotes plant growth by upregulating gibberellin biosynthesis and destabilization of DELLA proteins. Current Biology, 2021, 31, 4971-4982.e4.	3.9	25
28	Systemic nutrient signalling: On the road for nitrate. Nature Plants, 2017, 3, 17040.	9.3	20
29	GeneCloud Reveals Semantic Enrichment in Lists of Gene Descriptions. Molecular Plant, 2015, 8, 971-973.	8.3	17
30	Genome-wide analysis in response to nitrogen and carbon identifies regulators for root AtNRT2 transporters. Plant Physiology, 2021, 186, 696-714.	4.8	16
31	Nitrate supply to grapevine rootstocks â€" new genome-wide findings. Journal of Experimental Botany, 2017, 68, 3999-4001.	4.8	2
32	The 4th Dimension of Transcriptional Networks: TIME. FASEB Journal, 2019, 33, 343.1.	0.5	0