Gabriel Krouk

List of Publications by Year
in descending order

53 papers	6,507 citations	87888 38 h-index	161849 54 g-index
65 all docs	65 docs citations	65 times ranked	6040 citing authors

#	Article	IF	Citations
1	PDX1.1-dependent biosynthesis of vitamin B6 protects roots from ammonium-induced oxidative stress. Molecular Plant, 2022, 15, 820-839.	8.3	28
2	Root Membrane Ubiquitinome under Short-Term Osmotic Stress. International Journal of Molecular Sciences, 2022, 23, 1956.	4.1	7
3	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
4	Nitrate signaling promotes plant growth by upregulating gibberellin biosynthesis and destabilization of DELLA proteins. Current Biology, 2021, 31, 4971-4982.e4.	3.9	25
5	Nitrogen and Phosphorus interactions in plants: from agronomic to physiological and molecular insights. Current Opinion in Plant Biology, 2020, 57, 104-109.	7.1	49
6	The Arabidopsis NRT1.1 transceptor coordinately controls auxin biosynthesis and transport to regulate root branching in response to nitrate. Journal of Experimental Botany, 2020, 71, 4480-4494.	4.8	64
7	Nitrate in 2020: Thirty Years from Transport to Signaling Networks. Plant Cell, 2020, 32, 2094-2119.	6.6	203
8	Transient genome-wide interactions of the master transcription factor NLP7 initiate a rapid nitrogen-response cascade. Nature Communications, 2020, 11, 1157.	12.8	99
9	iPlant Systems Biology (iPSB): An International Network Hub in the Plant Community. Molecular Plant, 2019, 12, 727-730.	8.3	5
10	Getting to the Root of Plant Mineral Nutrition: Combinatorial Nutrient Stresses Reveal Emergent Properties. Trends in Plant Science, 2019, 24, 542-552.	8.8	88
11	The Chromatin Factor HNI9 and ELONGATED HYPOCOTYL5 Maintain ROS Homeostasis under High Nitrogen Provision. Plant Physiology, 2019, 180, 582-592.	4.8	30
12	Identification of Molecular Integrators Shows that Nitrogen Actively Controls the Phosphate Starvation Response in Plants. Plant Cell, 2019, 31, 1171-1184.	6.6	135
13	Network Walking charts transcriptional dynamics of nitrogen signaling by integrating validated and predicted genome-wide interactions. Nature Communications, 2019, 10, 1569.	12.8	92
14	Responses to Systemic Nitrogen Signaling in Arabidopsis Roots Involve <i>trans</i>-Zeatin in Shoots. Plant Cell, 2018, 30, 1243-1257.	6.6	134
15	LPCAT1 controls phosphate homeostasis in a zinc-dependent manner. ELife, 2018, 7, .	6.0	63
16	Nitrate signalling: Calcium bridges the nitrate gap. Nature Plants, 2017, 3, 17095.	9.3	34
17	TransDetect Identifies a New Regulatory Module Controlling Phosphate Accumulation. Plant Physiology, 2017, 175, 916-926.	4.8	28
18	The world according to GARP transcription factors. Current Opinion in Plant Biology, 2017, 39, 159-167.	7.1	72

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19	The Next Generation of Training for Arabidopsis Researchers: Bioinformatics and Quantitative Biology. Plant Physiology, 2017, 175, 1499-1509.	4.8	11
20	Reverse engineering highlights potential principles of large gene regulatory network design and learning. Npj Systems Biology and Applications, 2017, 3, 17.	3.0	13
21	Nitrate Transport, Sensing, and Responses in Plants. Molecular Plant, 2016, 9, 837-856.	8.3	427
22	Longâ€distance nitrate signaling displays cytokinin dependent and independent branches. Journal of Integrative Plant Biology, 2016, 58, 226-229.	8.5	57
23	Nitrate Controls Root Development through Post-Transcriptional Regulation of the NRT1.1/NPF6.3 transporter/sensor. Plant Physiology, 2016, 172, pp.01047.2016.	4.8	94
24	Novel Aquaporin Regulatory Mechanisms Revealed by Interactomics. Molecular and Cellular Proteomics, 2016, 15, 3473-3487.	3.8	80
25	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
26	Hormones and nitrate: a two-way connection. Plant Molecular Biology, 2016, 91, 599-606.	3.9	111
27	AtNIGT1/HRS1 integrates nitrate and phosphate signals at the Arabidopsis root tip. Nature Communications, 2015, 6, 6274.	12.8	195
28	Multiple mechanisms of nitrate sensing by Arabidopsis nitrate transceptor NRT1.1. Nature Plants, 2015, 1, 15015.	9.3	265
29	GeneCloud Reveals Semantic Enrichment in Lists of Gene Descriptions. Molecular Plant, 2015, 8, 971-973.	8.3	17
30	Hit-and-run transcriptional control by bZIP1 mediates rapid nutrient signaling in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10371-10376.	7.1	154
31	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
32	The Primary Nitrate Response: a multifaceted signalling pathway. Journal of Experimental Botany, 2014, 65, 5567-5576.	4.8	146
33	TARGET: A Transient Transformation System for Genome-Wide Transcription Factor Target Discovery. Molecular Plant, 2013, 6, 978-980.	8.3	73
34	ABA transport and transporters. Trends in Plant Science, 2013, 18, 325-333.	8.8	281
35	Gene regulatory networks in plants: learning causality from time and perturbation. Genome Biology, 2013, 14, 123.	8.8	115
36	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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37	Integration of responses within and across <i>Arabidopsis</i> natural accessions uncovers loci controlling root systems architecture. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15133-15138.	7.1	93
38	A map of cell typeâ€specific auxin responses. Molecular Systems Biology, 2013, 9, 688.	7.2	150
39	Integrated RNA-seq and sRNA-seq analysis identifies novel nitrate-responsive genes in Arabidopsis thaliana roots. BMC Genomics, 2013, 14, 701.	2.8	76
40	Iron and ROS control of the DownSTream mRNA decay pathway is essential for plant fitness. EMBO Journal, 2012, 31, 175-186.	7.8	37
41	A framework integrating plant growth with hormones and nutrients. Trends in Plant Science, 2011, 16, 178-182.	8.8	255
42	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
43	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
44	Nitrate transceptor(s) in plants. Journal of Experimental Botany, 2011, 62, 2299-2308.	4.8	246
45	Nitrate signaling: adaptation to fluctuating environments. Current Opinion in Plant Biology, 2010, 13, 265-272.	7.1	319
46	Modeling the global effect of the basic-leucine zipper transcription factor 1 (bZIP1) on nitrogen and light regulation in Arabidopsis. BMC Systems Biology, 2010, 4, 111.	3.0	69
47	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
48	Nitrate-Regulated Auxin Transport by NRT1.1 Defines a Mechanism for Nutrient Sensing in Plants. Developmental Cell, 2010, 18, 927-937.	7.0	870
49	Predictive network modeling of the high-resolution dynamic plant transcriptome in response to nitrate. Genome Biology, 2010, 11, R123.	9.6	241
50	A Systems Approach Uncovers Restrictions for Signal Interactions Regulating Genome-wide Responses to Nutritional Cues in Arabidopsis. PLoS Computational Biology, 2009, 5, e1000326.	3.2	64
51	A system biology approach highlights a hormonal enhancer effect on regulation of genes in a nitrate responsive "biomodule". BMC Systems Biology, 2009, 3, 59.	3.0	48
52	Regulation of the High-Affinity NO3âˆ' Uptake System by NRT1.1-Mediated NO3âˆ' Demand Signaling in Arabidopsis. Plant Physiology, 2006, 142, 1075-1086.	4.8	149
53	Comparative study of molecular binding sites of nitrate and auxin in Arabidopsis thaliana NRT1.1 & NRT1.2 transporter.. , 0, , .		0