

Gabriel Krouk

List of Publications by Year in descending order

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Version: 2024-02-01

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	Nitrate-Regulated Auxin Transport by NRT1.1 Defines a Mechanism for Nutrient Sensing in Plants. <i>Developmental Cell</i> , 2010, 18, 927-937.	7.0	870
2	Nitrate Transport, Sensing, and Responses in Plants. <i>Molecular Plant</i> , 2016, 9, 837-856.	8.3	427
3	Nitrogen economics of root foraging: Transitive closure of the nitrate-cytokinin relay and distinct systemic signaling for N supply vs. demand. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18524-18529.	7.1	333
4	Nitrate signaling: adaptation to fluctuating environments. <i>Current Opinion in Plant Biology</i> , 2010, 13, 265-272.	7.1	319
5	ABA transport and transporters. <i>Trends in Plant Science</i> , 2013, 18, 325-333.	8.8	281
6	Multiple mechanisms of nitrate sensing by Arabidopsis nitrate transceptor NRT1.1. <i>Nature Plants</i> , 2015, 1, 15015.	9.3	265
7	A framework integrating plant growth with hormones and nutrients. <i>Trends in Plant Science</i> , 2011, 16, 178-182.	8.8	255
8	Nitrate transceptor(s) in plants. <i>Journal of Experimental Botany</i> , 2011, 62, 2299-2308.	4.8	246
9	Predictive network modeling of the high-resolution dynamic plant transcriptome in response to nitrate. <i>Genome Biology</i> , 2010, 11, R123.	9.6	241
10	Nitrate in 2020: Thirty Years from Transport to Signaling Networks. <i>Plant Cell</i> , 2020, 32, 2094-2119.	6.6	203
11	AtNIGT1/HRS1 integrates nitrate and phosphate signals at the Arabidopsis root tip. <i>Nature Communications</i> , 2015, 6, 6274.	12.8	195
12	Hit-and-run transcriptional control by bZIP1 mediates rapid nutrient signaling in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10371-10376.	7.1	154
13	A map of cell type-specific auxin responses. <i>Molecular Systems Biology</i> , 2013, 9, 688.	7.2	150
14	Regulation of the High-Affinity NO ₃ ⁻ Uptake System by NRT1.1-Mediated NO ₃ ⁻ Demand Signaling in Arabidopsis. <i>Plant Physiology</i> , 2006, 142, 1075-1086.	4.8	149
15	The Primary Nitrate Response: a multifaceted signalling pathway. <i>Journal of Experimental Botany</i> , 2014, 65, 5567-5576.	4.8	146
16	Identification of Molecular Integrators Shows that Nitrogen Actively Controls the Phosphate Starvation Response in Plants. <i>Plant Cell</i> , 2019, 31, 1171-1184.	6.6	135
17	Responses to Systemic Nitrogen Signaling in Arabidopsis Roots Involve <i>trans-Zeatin</i> in Shoots. <i>Plant Cell</i> , 2018, 30, 1243-1257.	6.6	134
18	Gene regulatory networks in plants: learning causality from time and perturbation. <i>Genome Biology</i> , 2013, 14, 123.	8.8	115

#	ARTICLE	IF	CITATIONS
19	Hormones and nitrate: a two-way connection. <i>Plant Molecular Biology</i> , 2016, 91, 599-606.	3.9	111
20	HIGH NITROGEN INSENSITIVE 9 (HNI9)-mediated systemic repression of root NO ₃ ⁻ uptake is associated with changes in histone methylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13329-13334.	7.1	108
21	Transient genome-wide interactions of the master transcription factor NLP7 initiate a rapid nitrogen-response cascade. <i>Nature Communications</i> , 2020, 11, 1157.	12.8	99
22	Nitrate Controls Root Development through Post-Transcriptional Regulation of the NRT1.1/NPF6.3 transporter/sensor. <i>Plant Physiology</i> , 2016, 172, pp.01047.2016.	4.8	94
23	Integration of responses within and across <i>Arabidopsis</i> natural accessions uncovers loci controlling root systems architecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15133-15138.	7.1	93
24	Network Walking charts transcriptional dynamics of nitrogen signaling by integrating validated and predicted genome-wide interactions. <i>Nature Communications</i> , 2019, 10, 1569.	12.8	92
25	Getting to the Root of Plant Mineral Nutrition: Combinatorial Nutrient Stresses Reveal Emergent Properties. <i>Trends in Plant Science</i> , 2019, 24, 542-552.	8.8	88
26	Combinatorial interaction network of transcriptomic and phenotypic responses to nitrogen and hormones in the <i>Arabidopsis thaliana</i> root. <i>Science Signaling</i> , 2016, 9, rs13.	3.6	81
27	Novel Aquaporin Regulatory Mechanisms Revealed by Interactomics. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 3473-3487.	3.8	80
28	Integrated RNA-seq and sRNA-seq analysis identifies novel nitrate-responsive genes in <i>Arabidopsis thaliana</i> roots. <i>BMC Genomics</i> , 2013, 14, 701.	2.8	76
29	TARGET: A Transient Transformation System for Genome-Wide Transcription Factor Target Discovery. <i>Molecular Plant</i> , 2013, 6, 978-980.	8.3	73
30	The world according to GARP transcription factors. <i>Current Opinion in Plant Biology</i> , 2017, 39, 159-167.	7.1	72
31	Modeling the global effect of the basic-leucine zipper transcription factor 1 (bZIP1) on nitrogen and light regulation in <i>Arabidopsis</i> . <i>BMC Systems Biology</i> , 2010, 4, 111.	3.0	69
32	A Systems Approach Uncovers Restrictions for Signal Interactions Regulating Genome-wide Responses to Nutritional Cues in <i>Arabidopsis</i> . <i>PLoS Computational Biology</i> , 2009, 5, e1000326.	3.2	64
33	The <i>Arabidopsis</i> NRT1.1 transceptor coordinately controls auxin biosynthesis and transport to regulate root branching in response to nitrate. <i>Journal of Experimental Botany</i> , 2020, 71, 4480-4494.	4.8	64
34	LPCAT1 controls phosphate homeostasis in a zinc-dependent manner. <i>ELife</i> , 2018, 7, .	6.0	63
35	RootScope: A Landmark-Based System for Rapid Screening of Root Architecture in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013, 161, 1086-1096.	4.8	59
36	Long-distance nitrate signaling displays cytokinin dependent and independent branches. <i>Journal of Integrative Plant Biology</i> , 2016, 58, 226-229.	8.5	57

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37	Nitrogen and Phosphorus interactions in plants: from agronomic to physiological and molecular insights. <i>Current Opinion in Plant Biology</i> , 2020, 57, 104-109.	7.1	49
38	A system biology approach highlights a hormonal enhancer effect on regulation of genes in a nitrate responsive "biomodule". <i>BMC Systems Biology</i> , 2009, 3, 59.	3.0	48
39	Iron and ROS control of the DownStream mRNA decay pathway is essential for plant fitness. <i>EMBO Journal</i> , 2012, 31, 175-186.	7.8	37
40	Finding a nitrogen niche: a systems integration of local and systemic nitrogen signalling in plants. <i>Journal of Experimental Botany</i> , 2014, 65, 5601-5610.	4.8	36
41	A Systems View of Responses to Nutritional Cues in Arabidopsis: Toward a Paradigm Shift for Predictive Network Modeling. <i>Plant Physiology</i> , 2010, 152, 445-452.	4.8	34
42	Nitrate signalling: Calcium bridges the nitrate gap. <i>Nature Plants</i> , 2017, 3, 17095.	9.3	34
43	The Chromatin Factor HNI9 and ELONGATED HYPOCOTYL5 Maintain ROS Homeostasis under High Nitrogen Provision. <i>Plant Physiology</i> , 2019, 180, 582-592.	4.8	30
44	TransDetect Identifies a New Regulatory Module Controlling Phosphate Accumulation. <i>Plant Physiology</i> , 2017, 175, 916-926.	4.8	28
45	PDX1.1-dependent biosynthesis of vitamin B6 protects roots from ammonium-induced oxidative stress. <i>Molecular Plant</i> , 2022, 15, 820-839.	8.3	28
46	GARP transcription factors repress Arabidopsis nitrogen starvation response via ROS-dependent and -independent pathways. <i>Journal of Experimental Botany</i> , 2021, 72, 3881-3901.	4.8	27
47	Nitrate signaling promotes plant growth by upregulating gibberellin biosynthesis and destabilization of DELLA proteins. <i>Current Biology</i> , 2021, 31, 4971-4982.e4.	3.9	25
48	GeneCloud Reveals Semantic Enrichment in Lists of Gene Descriptions. <i>Molecular Plant</i> , 2015, 8, 971-973.	8.3	17
49	Reverse engineering highlights potential principles of large gene regulatory network design and learning. <i>Npj Systems Biology and Applications</i> , 2017, 3, 17.	3.0	13
50	The Next Generation of Training for Arabidopsis Researchers: Bioinformatics and Quantitative Biology. <i>Plant Physiology</i> , 2017, 175, 1499-1509.	4.8	11
51	Root Membrane Ubiquitinome under Short-Term Osmotic Stress. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1956.	4.1	7
52	iPlant Systems Biology (iPSB): An International Network Hub in the Plant Community. <i>Molecular Plant</i> , 2019, 12, 727-730.	8.3	5
53	Comparative study of molecular binding sites of nitrate and auxin in <i>Arabidopsis thaliana</i> NRT1.1 & NRT1.2 transporter. , 0, , .		0