Benoit Lacombe

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56 papers	5,259 citations	36 h-index	58 g-index
58 ext. papers	6,350 ext. citations	9.5 avg, IF	5.32 L-index

#	Paper	IF	Citations
56	Nitrate-regulated auxin transport by NRT1.1 defines a mechanism for nutrient sensing in plants. *Developmental Cell*, **2010**, 18, 927-37	10.2	669
55	Identification and disruption of a plant shaker-like outward channel involved in K+ release into the xylem sap. *Cell*, **1998**, 94, 647-55	56.2	580
54	A unified nomenclature of NITRATE TRANSPORTER 1/PEPTIDE TRANSPORTER family members in plants. *Trends in Plant Science*, **2014**, 19, 5-9	13.1	403
53	Phytotoxicity and innate immune responses induced by Nep1-like proteins. *Plant Cell*, **2006**, 18, 3721-44	11.6	233
52	ABA transport and transporters. *Trends in Plant Science*, **2013**, 18, 325-33	13.1	220
51	A framework integrating plant growth with hormones and nutrients. *Trends in Plant Science*, **2011**, 16, 178-82	13.1	207
50	Calcium-dependent modulation and plasma membrane targeting of the AKT2 potassium channel by the CBL4/CIPK6 calcium sensor/protein kinase complex. *Cell Research*, **2011**, 21, 1116-30	24.7	199
49	A shaker-like K(+) channel with weak rectification is expressed in both source and sink phloem tissues of Arabidopsis. *Plant Cell*, **2000**, 12, 837-51	11.6	181
48	Arabidopsis WAT1 is a vacuolar auxin transport facilitator required for auxin homoeostasis. *Nature Communications*, **2013**, 4, 2625	17.4	166
47	GABA signaling: a conserved and ubiquitous mechanism. *Trends in Cell Biology*, **2003**, 13, 607-10	18.3	165
46	Leaf fructose content is controlled by the vacuolar transporter SWEET17 in Arabidopsis. *Current Biology*, **2013**, 23, 697-702	6.3	158
45	The identity of plant glutamate receptors. *Science*, **2001**, 292, 1486-7	33.3	155
44	AtGLR3.4, a glutamate receptor channel-like gene is sensitive to touch and cold. *Planta*, **2005**, 222, 418-27	4.7	131
43	Nitrate sensing and uptake in Arabidopsis are enhanced by ABI2, a phosphatase inactivated by the stress hormone abscisic acid. *Science Signaling*, **2015**, 8, ra43	8.8	125
42	External K+ modulates the activity of the Arabidopsis potassium channel SKOR via an unusual mechanism. *Plant Journal*, **2006**, 46, 269-81	6.9	113
41	A Shaker-Like K + Channel with Weak Rectification Is Expressed in Both Source and Sink Phloem Tissues of Arabidopsis. *Plant Cell*, **2000**, 12, 837	11.6	104
40	Substrate (un)specificity of Arabidopsis NRT1/PTR FAMILY (NPF) proteins. *Journal of Experimental Botany*, **2017**, 68, 3107-3113	7	84

39	Identification of Molecular Integrators Shows that Nitrogen Actively Controls the Phosphate Starvation Response in Plants. *Plant Cell*, **2019**, 31, 1171-1184	11.6	80
38	Responses to Systemic Nitrogen Signaling in Arabidopsis Roots Involve -Zeatin in Shoots. *Plant Cell*, **2018**, 30, 1243-1257	11.6	79
37	Arabidopsis NRT1.1 is a bidirectional transporter involved in root-to-shoot nitrate translocation. *Molecular Plant*, **2013**, 6, 1984-7	14.4	77
36	Inward rectification of the AKT2 channel abolished by voltage-dependent phosphorylation. *Plant Journal*, **2005**, 44, 783-97	6.9	76
35	The K+ channel KZM1 mediates potassium uptake into the phloem and guard cells of the C4 grass Zea mays. *Journal of Biological Chemistry*, **2003**, 278, 16973-81	5.4	74
34	Natural variation at the FRD3 MATE transporter locus reveals cross-talk between Fe homeostasis and Zn tolerance in Arabidopsis thaliana. *PLoS Genetics*, **2012**, 8, e1003120	6	71
33	Long-distance transport of phytohormones through the plant vascular system. *Current Opinion in Plant Biology*, **2016**, 34, 1-8	9.9	65
32	pH control of the plant outwardly-rectifying potassium channel SKOR. *FEBS Letters*, **2000**, 466, 351-4	3.8	64
31	Combinatorial interaction network of transcriptomic and phenotypic responses to nitrogen and hormones in the Arabidopsis thaliana root. *Science Signaling*, **2016**, 9, rs13	8.8	62
30	Increased functional diversity of plant K+ channels by preferential heteromerization of the shaker-like subunits AKT2 and KAT2. *Journal of Biological Chemistry*, **2007**, 282, 486-94	5.4	55
29	A unique voltage sensor sensitizes the potassium channel AKT2 to phosphoregulation. *Journal of General Physiology*, **2005**, 126, 605-17	3.4	49
28	Transporters Involved in Root Nitrate Uptake and Sensing by. *Frontiers in Plant Science*, **2016**, 7, 1391	6.2	49
27	A grapevine gene encoding a guard cell K(+) channel displays developmental regulation in the grapevine berry. *Plant Physiology*, **2002**, 128, 564-77	6.6	48
26	Preferential KAT1-KAT2 heteromerization determines inward K+ current properties in Arabidopsis guard cells. *Journal of Biological Chemistry*, **2010**, 285, 6265-74	5.4	46
25	Ca2+-dependent lipid binding and membrane integration of PopA, a harpin-like elicitor of the hypersensitive response in tobacco. *Molecular Microbiology*, **2005**, 58, 1406-20	4.1	45
24	Getting to the Root of Plant Mineral Nutrition: Combinatorial Nutrient Stresses Reveal Emergent Properties. *Trends in Plant Science*, **2019**, 24, 542-552	13.1	44
23	Molecular and functional characterization of a Na(+)-K(+) transporter from the Trk family in the ectomycorrhizal fungus Hebeloma cylindrosporum. *Journal of Biological Chemistry*, **2007**, 282, 26057-66	5.4	41
22	AtNPF5.5, a nitrate transporter affecting nitrogen accumulation in Arabidopsis embryo. *Scientific Reports*, **2015**, 5, 7962	4.9	40

21	Outer pore residues control the H(+) and K(+) sensitivity of the Arabidopsis potassium channel AKT3. *Plant Cell*, **2002**, 14, 1859-68	11.6	40
20	Long-distance nitrate signaling displays cytokinin dependent and independent branches. *Journal of Integrative Plant Biology*, **2016**, 58, 226-9	8.3	34
19	The Arabidopsis guard cell outward potassium channel GORK is regulated by CPK33. *FEBS Letters*, **2017**, 591, 1982-1992	3.8	29
18	The world according to GARP transcription factors. *Current Opinion in Plant Biology*, **2017**, 39, 159-167	9.9	27
17	Heteromerization of Arabidopsis Kv channel alpha-subunits: Data and prospects. *Plant Signaling and Behavior*, **2008**, 3, 622-5	2.5	24
16	Plant Hormones: Key Players in Gut Microbiota and Human Diseases?. *Trends in Plant Science*, **2017**, 22, 754-758	13.1	23
15	TransDetect Identifies a New Regulatory Module Controlling Phosphate Accumulation. *Plant Physiology*, **2017**, 175, 916-926	6.6	16
14	The Nitrate Transporter Family Protein LjNPF8.6 Controls the N-Fixing Nodule Activity. *Plant Physiology*, **2017**, 175, 1269-1282	6.6	16
13	Sugar and Nitrate Sensing: A Multi-Billion-Year Story. *Trends in Plant Science*, **2021**, 26, 352-374	13.1	16
12	Functional Characterization of the Arabidopsis Abscisic Acid Transporters NPF4.5 and NPF4.6 in Xenopus Oocytes. *Frontiers in Plant Science*, **2020**, 11, 144	6.2	14
11	GeneCloud Reveals Semantic Enrichment in Lists of Gene Descriptions. *Molecular Plant*, **2015**, 8, 971-3	14.4	12
10	Individual versus Combinatorial Effects of Silicon, Phosphate, and Iron Deficiency on the Growth of Lowland and Upland Rice Varieties. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	12
9	Disruption of the Lotus japonicus transporter LjNPF2.9 increases shoot biomass and nitrate content without affecting symbiotic performances. *BMC Plant Biology*, **2019**, 19, 380	5.3	7
8	A new insight into root responses to external cues: Paradigm shift in nutrient sensing. *Plant Signaling and Behavior*, **2015**, 10, e1049791	2.5	6
7	Phosphorus Transport in Arabidopsis and Wheat: Emerging Strategies to Improve P Pool in Seeds. *Agriculture (Switzerland)*, **2018**, 8, 27	3	5
6	GARP transcription factors repress Arabidopsis nitrogen starvation response via ROS-dependent and -independent pathways. *Journal of Experimental Botany*, **2021**, 72, 3881-3901	7	5
5	Transporters and Mechanisms of Hormone Transport in Arabidopsis. *Advances in Botanical Research* , **2018**, 87, 115-138	2.2	5
4	HRS1/HHOs GARP transcription factors and reactive oxygen species are regulators of Arabidopsis nitrogen starvation response		4

3	Revisiting the functional properties of NPF6.3/NRT1.1/CHL1 in xenopus oocytes		3
2	Nitrate supply to grapevine rootstocks - new genome-wide findings. *Journal of Experimental Botany* , **2017**, 68, 3999-4001	7	2
1	The Arabidopsis protein NPF6.2/NRT1.4 is a plasma membrane nitrate transporter and a target of protein kinase CIPK23. *Plant Physiology and Biochemistry*, **2021**, 168, 239-251	5.4	1