Benjamin Peret

List of Publications by Year
in descending order

35 papers	5,892 citations	218677 26 h-index	345221 36 g-index
41 all docs	41 docs citations	41 times ranked	6403 citing authors

#	Article	IF	Citations
1	The auxin influx carrier LAX3 promotes lateral root emergence. Nature Cell Biology, 2008, 10, 946-954.	10.3	715
2	Arabidopsis lateral root development: an emerging story. Trends in Plant Science, 2009, 14, 399-408.	8.8	681
3	Root developmental adaptation to phosphate starvation: better safe than sorry. Trends in Plant Science, 2011, 16, 442-450.	8.8	457
4	<i>AUX/LAX</i> Genes Encode a Family of Auxin Influx Transporters That Perform Distinct Functions during <i>Arabidopsis</i> Development. Plant Cell, 2012, 24, 2874-2885.	6.6	373
5	Auxin regulates aquaporin function to facilitate lateral root emergence. Nature Cell Biology, 2012, 14, 991-998.	10.3	323
6	Root gravitropism is regulated by a transient lateral auxin gradient controlled by a tipping-point mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4668-4673.	7.1	304
7	Low phosphate activates STOP1-ALMT1 to rapidly inhibit root cell elongation. Nature Communications, 2017, 8, 15300.	12.8	268
8	SymRK defines a common genetic basis for plant root endosymbioses with arbuscular mycorrhiza fungi, rhizobia, and <i>Frankia</i> bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4928-4932.	7.1	259
9	AUX/LAX family of auxin influx carriersâ€"an overview. Frontiers in Plant Science, 2012, 3, 225.	3.6	238
10	Lateral root morphogenesis is dependent on the mechanical properties of the overlaying tissues. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5229-5234.	7.1	233
11	Root Architecture Responses: In Search of Phosphate. Plant Physiology, 2014, 166, 1713-1723.	4.8	214
12	Floral organ abscission peptide IDA and its HAE/HSL2 receptors control cell separation during lateral root emergence. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5235-5240.	7.1	213
13	Lateral root emergence: a difficult birth. Journal of Experimental Botany, 2009, 60, 3637-3643.	4.8	167
14	SHORT-ROOT Regulates Primary, Lateral, and Adventitious Root Development in Arabidopsis Â Â Â. Plant Physiology, 2011, 155, 384-398.	4.8	163
15	The Novel Cyst Nematode Effector Protein 19C07 Interacts with the Arabidopsis Auxin Influx Transporter LAX3 to Control Feeding Site Development Â Â. Plant Physiology, 2011, 155, 866-880.	4.8	141
16	Analyzing Lateral Root Development: How to Move Forward. Plant Cell, 2012, 24, 15-20.	6.6	125
17	The circadian clock rephases during lateral root organ initiation in Arabidopsis thaliana. Nature Communications, 2015, 6, 7641.	12.8	119
18	Lateral root emergence in <i>Arabidopsis</i> is dependent on transcription factor LBD29 regulating auxin influx carrier <i>LAX3</i>. Development (Cambridge), 2016, 143, 3340-9.	2.5	111

#	Article	IF	Citations
19	Rice auxin influx carrier OsAUX1 facilitates root hair elongation in response to low external phosphate. Nature Communications, 2018, 9, 1408.	12.8	110
20	Sequential induction of auxin efflux and influx carriers regulates lateral root emergence. Molecular Systems Biology, 2013, 9, 699.	7.2	104
21	The AUX1 LAX family of auxin influx carriers is required for the establishment of embryonic root cell organization in Arabidopsis thaliana. Annals of Botany, 2010, 105, 277-289.	2.9	93
22	High-quality genome sequence of white lupin provides insight into soil exploration and seed quality. Nature Communications, 2020, 11, 492.	12.8	90
23	Auxin Influx Activity Is Associated with Frankia Infection during Actinorhizal Nodule Formation in Casuarina glauca Â. Plant Physiology, 2007, 144, 1852-1862.	4.8	84
24	A novel role for the root cap in phosphate uptake and homeostasis. ELife, 2016, 5, e14577.	6.0	79
25	Auxin Carriers Localization Drives Auxin Accumulation in Plant Cells Infected by <i>Frankia</i> in <i>Casuarina glauca</i> Actinorhizal Nodules. Plant Physiology, 2010, 154, 1372-1380.	4.8	75
26	Shootward and rootward: peak terminology for plant polarity. Trends in Plant Science, 2010, 15, 593-594.	8.8	39
27	A role for auxin during actinorhizal symbioses formation?. Plant Signaling and Behavior, 2008, 3, 34-35.	2.4	30
28	Pangenome of white lupin provides insights into the diversity of the species. Plant Biotechnology Journal, 2021, 19, 2532-2543.	8.3	23
29	Anatomical and hormonal description of rootlet primordium development along white lupin cluster root. Physiologia Plantarum, 2019, 165, 4-16.	5.2	15
30	Modelling of Arabidopsis LAX3 expression suggests auxin homeostasis. Journal of Theoretical Biology, 2015, 366, 57-70.	1.7	12
31	Identifying roles of the scion and the rootstock in regulating plant development and functioning under different phosphorus supplies in grapevine. Environmental and Experimental Botany, 2021, 185, 104405.	4.2	8
32	SnapShot: Root Development. Cell, 2013, 155, 1190-1190.e1.	28.9	4
33	Dynamic Development of White Lupin Rootlets Along a Cluster Root. Frontiers in Plant Science, 2021, 12, 738172.	3.6	4
34	Tissueâ€specific inactivation by cytosine deaminase/uracil phosphoribosyl transferase as a tool to study plant biology. Plant Journal, 2020, 101, 731-741.	5.7	2
35	The Highly Repeat-Diverse (Peri) Centromeres of White Lupin (Lupinus albus L.). Frontiers in Plant Science, 2022, 13, 862079.	3.6	1