Kim Boutilier

List of Publications by Year in descending order

33 papers	3,420 citations	257450 24 h-index	414414 32 g-index
36 all docs	36 docs citations	36 times ranked	2956 citing authors

#	Article	IF	Citations
1	Ectopic Expression of BABY BOOM Triggers a Conversion from Vegetative to Embryonic Growth. Plant Cell, 2002, 14, 1737-1749.	6.6	827
2	The ArabidopsisSomatic Embryogenesis Receptor Kinase 1Gene Is Expressed in Developing Ovules and Embryos and Enhances Embryogenic Competence in Culture. Plant Physiology, 2001, 127, 803-816.	4.8	604
3	The BABY BOOM Transcription Factor Activates the LEC1-ABI3-FUS3-LEC2 Network to Induce Somatic Embryogenesis. Plant Physiology, 2017, 175, 848-857.	4.8	236
4	A transcriptional view on somatic embryogenesis. Regeneration (Oxford, England), 2017, 4, 201-216.	6.3	170
5	AINTEGUMENTA-LIKE proteins: hubs in a plethora of networks. Trends in Plant Science, 2014, 19, 146-157.	8.8	157
6	Heterologous expression of the BABY BOOM AP2/ERF transcription factor enhances the regeneration capacity of tobacco (Nicotiana tabacum L.). Planta, 2006, 225, 341-351.	3.2	125
7	The Histone Deacetylase Inhibitor Trichostatin A Promotes Totipotency in the Male Gametophyte. Plant Cell, 2014, 26, 195-209.	6.6	125
8	Efficient sweet pepper transformation mediated by the BABY BOOM transcription factor. Plant Cell Reports, 2011, 30, 1107-1115.	5.6	119
9	BABY BOOM target genes provide diverse entry points into cell proliferation and cell growth pathways. Plant Molecular Biology, 2008, 68, 225-237.	3.9	106
10	Microspore embryogenesis: establishment of embryo identity and pattern in culture. Plant Reproduction, 2013, 26, 181-196.	2.2	104
11	Combined Transcriptome and Proteome Analysis Identifies Pathways and Markers Associated with the Establishment of Rapeseed Microspore-Derived Embryo Development. Plant Physiology, 2007, 144, 155-172.	4.8	98
12	Plant embryogenesis requires AUX/LAX-mediated auxin influx. Development (Cambridge), 2015, 142, 702-11.	2.5	92
13	A DMP-triggered in vivo maternal haploid induction system in the dicotyledonous Arabidopsis. Nature Plants, 2020, 6, 466-472.	9.3	78
14	A Cautionary Note on the Use of Split-YFP/BiFC in Plant Protein-Protein Interaction Studies. International Journal of Molecular Sciences, 2014, 15, 9628-9643.	4.1	70
15	Regeneration of zygotic-like microspore-derived embryos suggests an important role for the suspensor in early embryo patterning. Journal of Experimental Botany, 2008, 59, 803-814.	4.8	60
16	The Arabidopsis Somatic Embryogenesis Receptor Kinase 1 Gene Is Expressed in Developing Ovules and Embryos and Enhances Embryogenic Competence in Culture. Plant Physiology, 2001, 127, 803-816.	4.8	54
17	In vivo maternal haploid induction in tomato. Plant Biotechnology Journal, 2022, 20, 250-252.	8.3	44
18	AIL and HDG proteins act antagonistically to control cell proliferation. Development (Cambridge), 2015, 142, 454-64.	2.5	43

#	Article	IF	Citations
19	Buthionine sulfoximine (BSO)-mediated improvement in cultured embryo quality in vitro entails changes in ascorbate metabolism, meristem development and embryo maturation. Planta, 2008, 228, 255-272.	3.2	40
20	Symplasmic isolation marks cell fate changes during somatic embryogenesis. Journal of Experimental Botany, 2020, 71, 2612-2628.	4.8	37
21	Plasticity in Cell Division Patterns and Auxin Transport Dependency during in Vitro Embryogenesis inBrassica napusÂ Â. Plant Cell, 2014, 26, 2568-2581.	6.6	35
22	Auxin biosynthesis maintains embryo identity and growth during BABY BOOM-induced somatic embryogenesis. Plant Physiology, 2022, 188, 1095-1110.	4.8	35
23	An Arabidopsis AT-hook motif nuclear protein mediates somatic embryogenesis and coinciding genome duplication. Nature Communications, 2021, 12, 2508.	12.8	31
24	Establishment of a dmp based maternal haploid induction system for polyploid Brassica napus and Nicotiana tabacum. Journal of Integrative Plant Biology, 2022, 64, 1281-1294.	8.5	28
25	BABY BOOM regulates early embryo and endosperm development. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	23
26	ABA signalling promotes cell totipotency in the shoot apex of germinating embryos. Journal of Experimental Botany, 2021, 72, 6418-6436.	4.8	18
27	Cross-Talk Between Sporophyte and Gametophyte Generations Is Promoted by CHD3 Chromatin Remodelers inArabidopsis thaliana. Genetics, 2016, 203, 817-829.	2.9	16
28	Live Imaging of embryogenic structures in Brassica napus microspore embryo cultures highlights the developmental plasticity of induced totipotent cells. Plant Reproduction, 2020, 33, 143-158.	2.2	11
29	Seed maturation and post-harvest ripening negatively affect arabidopsis somatic embryogenesis. Plant Cell, Tissue and Organ Culture, 2019, 139, 17-27.	2.3	7
30	Pepper, Sweet (Capsicum annuum). Methods in Molecular Biology, 2015, 1223, 321-334.	0.9	7
31	Cell Wall Composition and Structure Define the Developmental Fate of Embryogenic Microspores in Brassica napus. Frontiers in Plant Science, 2021, 12, 737139.	3.6	6
32	Microarray-Based Identification of Transcription Factor Target Genes. Methods in Molecular Biology, 2011, 754, 119-141.	0.9	4
33	Project Transcontainer. Journal Fur Verbraucherschutz Und Lebensmittelsicherheit, 2009, 3, 39-39.	1.4	0