Anna M G Koltunow

List of Publications by Year
in descending order

87	6,787	76294 40	62565 80
papers	citations	h-index	g-index

93	93	93	4787
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Different Temporal and Spatial Gene Expression Patterns Occur during Anther Development.. Plant Cell, 1990, 2, 1201-1224.	3.1	634
2	Genes controlling fertilization-independent seed development in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 296-301.	3.3	436
3	APOMIXIS: A Developmental Perspective. Annual Review of Plant Biology, 2003, 54, 547-574.	8.6	418
4	Understanding Apomixis: Recent Advances and Remaining Conundrums. Plant Cell, 2004, 16, S228-S245.	3.1	368
5	Apomixis: Embryo Sacs and Embryos Formed without Meiosis or Fertilization in Ovules.. Plant Cell, 1993, 5, 1425-1437.	3.1	363
6	AUXIN RESPONSE FACTOR8 Is a Negative Regulator of Fruit Initiation in Arabidopsis Â. Plant Cell, 2006, 18, 1873-1886.	3.1	261
7	The Genetic Control of Apomixis: Asexual Seed Formation. Genetics, 2014, 197, 441-450.	1.2	260
8	A Genome-Wide Survey of Imprinted Genes in Rice Seeds Reveals Imprinting Primarily Occurs in the Endosperm. PLoS Genetics, 2011, 7, e1002125.	1.5	213
9	Expression of Aberrant Forms ofAUXIN RESPONSE FACTOR8Stimulates Parthenocarpy in Arabidopsis and Tomato. Plant Physiology, 2007, 145, 351-366.	2.3	208
10	TheArabidopsisMYB5 Transcription Factor Regulates Mucilage Synthesis, Seed Coat Development, and Trichome Morphogenesis Â. Plant Cell, 2009, 21, 72-89.	3.1	186
11	Control of Early Seed Development. Annual Review of Cell and Developmental Biology, 2001, 17, 677-699.	4.0	184
12	KNUCKLES (KNU) encodes a C2H2 zinc-finger protein that regulates development of basal pattern elements of the Arabidopsis gynoecium. Development (Cambridge), 2004, 131, 3737-3749.	1.2	172
13	Apomixis: Molecular Strategies for the Generation of Genetically Identical Seeds without Fertilization. Plant Physiology, 1995, 108, 1345-1352.	2.3	167
14	Genetic Analysis of Growth-Regulator-Induced Parthenocarpy in Arabidopsis. Plant Physiology, 1999, 121, 437-452.	2.3	158
15	The Female Gametophyte. The Arabidopsis Book, 2011, 9, e0155.	0.5	145
16	Somatic small RNA pathways promote the mitotic events of megagametogenesis during female reproductive development in Arabidopsis. Development (Cambridge), 2012, 139, 1399-1404.	1.2	145
17	Different Temporal and Spatial Gene Expression Patterns Occur during Anther Development. Plant Cell, 1990, 2, 1201.	3.1	128
18	Sexual and Apomictic Reproduction in Hieracium subgenus Pilosella Are Closely Interrelated Developmental Pathways. Plant Cell, 2003, 15, 1524-1537.	3.1	126

#	Article	IF	Citations
19	Sexual reproduction is the default mode in apomictic Hieracium subgenus Pilosella, in which two dominant loci function to enable apomixis. Plant Journal, 2011, 66, 890-902.	2.8	117
20	Sexual and apomictic development in Hieracium. Sexual Plant Reproduction, 1998, 11, 213-230.	2.2	105
21	Fruit development is actively restricted in the absence of fertilization inArabidopsis. Development (Cambridge), 2001, 128, 2321-2331.	1.2	103
22	Apomixis: Embryo Sacs and Embryos Formed without Meiosis or Fertilization in Ovules. Plant Cell, 1993, 5, 1425.	3.1	86
23	Grapevine yellow speckle viroid: structural features of a new viroid group. Nucleic Acids Research, 1988, 16, 849-864.	6.5	81
24	Enlarging Cells Initiating Apomixis in Hieracium praealtum Transition to an Embryo Sac Program prior to Entering Mitosis Â Â. Plant Physiology, 2013, 163, 216-231.	2.3	78
25	A Genetic Screen for Impaired Systemic RNAi Highlights the Crucial Role of DICER-LIKE 2. Plant Physiology, 2017, 175, 1424-1437.	2.3	72
26	A Scheme for Viroid Classification. Intervirology, 1989, 30, 194-201.	1.2	70
27	Genetic separation of autonomous endosperm formation (AutE) from the two other components of apomixis in Hieracium. Plant Reproduction, 2013, 26, 113-123.	1.3	68
28	Cell Differentiation and Morphogenesis Are Uncoupled in Arabidopsis raspberry Embryos. Plant Cell, 1994, 6, 1713.	3.1	64
29	Anther, ovule, seed, and nucellar embryo development inCitrus sinensiscv. Valencia. Canadian Journal of Botany, 1995, 73, 1567-1582.	1.2	64
30	Apomixis is not developmentally conserved in related, genetically characterized Hieracium plants of varying ploidy. Sexual Plant Reproduction, 2000, 12, 253-266.	2.2	64
31	Sexual and asexual (apomictic) seed development in flowering plants: molecular, morphological and evolutionary relationships. Functional Plant Biology, 2009, 36, 490.	1.1	64
32	Polyembryony in Citrus (Accumulation of Seed Storage Proteins in Seeds and in Embryos Cultured in) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.3	61
33	Dynamics of callose deposition and Î²-1,3-glucanase expression during reproductive events in sexual and apomictic Hieracium. Planta, 2001, 212, 487-498.	1.6	60
34	Sexual and Apomictic Seed Formation in Hieracium Requires the Plant Polycomb-Group Gene FERTILIZATION INDEPENDENT ENDOSPERM Â. Plant Cell, 2008, 20, 2372-2386.	3.1	53
35	Chromosomes Carrying Meiotic Avoidance Loci in Three Apomictic Eudicot Hieracium Subgenus Pilosella Species Share Structural Features with Two Monocot Apomicts Â Â. Plant Physiology, 2011, 157, 1327-1341.	2.3	51
36	Grapevine viroid 1B, a new member of the apple scar skin viroid group contains the left terminal region of tomato planta macho viroid. Virology, 1989, 170, 575-578.	1.1	49

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37	A bright future for apomixis. Trends in Plant Science, 1998, 3, 415-416.	4.3	49
38	The LOSS OF APOMEIOSIS (LOA) locus in Hieracium praealtum can function independently of the associated largeâ€scale repetitive chromosomal structure. New Phytologist, 2014, 201, 973-981.	3.5	47
39	Expression of rolB in apomictic Hieracium piloselloides Vill. causes ectopic meristems in planta and changes in ovule formation, where apomixis initiates at higher frequency. Planta, 2001, 214, 196-205.	1.6	45
40	Polycomb group gene function in sexual and asexual seed development in angiosperms. Sexual Plant Reproduction, 2010, 23, 123-133.	2.2	44
41	Traffic monitors at the cell periphery: the role of cell walls during early female reproductive cell differentiation in plants. Current Opinion in Plant Biology, 2014, 17, 137-145.	3.5	41
42	Evolution of apomixis loci in Pilosella and Hieracium (Asteraceae) inferred from the conservation of apomixis-linked markers in natural and experimental populations. Heredity, 2015, 114, 17-26.	1.2	40
43	Sporophytic ovule tissues modulate the initiation and progression of apomixis in Hieracium. Journal of Experimental Botany, 2012, 63, 3229-3241.	2.4	39
44	A DEFICIENS homologue is down-regulated during apomictic initiation in ovules of Hieracium. Planta, 2000, 210, 914-920.	1.6	37
45	Mechanisms of endosperm initiation. Plant Reproduction, 2016, 29, 215-225.	1.3	34
46	Imprinting in rice: the role of <scp>DNA</scp> and histone methylation in modulating parentâ€ofâ€origin specific expression and determining transcript start sites. Plant Journal, 2014, 79, 232-242.	2.8	31
47	Apomixis in hawkweed: Mendel's experimental nemesis. Journal of Experimental Botany, 2011, 62, 1699-1707.	2.4	28
48	Asexual Female Gametogenesis Involves Contact with a Sexually-Fated Megaspore in Apomictic Hieracium. Plant Physiology, 2018, 177, 1027-1049.	2.3	28
49	A detached leaf assay for testing transient gene expression and gene editing in cowpea (Vigna) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.9	28
50	Single-stranded DNA of Tomato leaf curl virus accumulates in the cytoplasm of phloem cells. Virology, 2006, 348, 120-132.	1.1	26
51	Assembled genomic and tissue-specific transcriptomic data resources for two genetically distinct lines of Cowpea (Vigna unguiculata (L.) Walp). Gates Open Research, 2018, 2, 7.	2.0	25
52	Developmentally regulatedHEART STOPPER, a mitochondrially targeted L18 ribosomal protein gene, is required for cell division, differentiation, and seed development inArabidopsis. Journal of Experimental Botany, 2015, 66, 5867-5880.	2.4	24
53	An Hieracium mutant, loss of apomeiosis 1 (loa1) is defective in the initiation of apomixis. Sexual Plant Reproduction, 2007, 20, 199-211.	2.2	20
54	Unequal contribution of two paralogous CENH3 variants in cowpea centromere function. Communications Biology, 2020, 3, 775.	2.0	20

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55	Generation of an integrated Hieracium genomic and transcriptomic resource enables exploration of small RNA pathways during apomixis initiation. BMC Biology, 2016, 14, 86.	1.7	19
56	Assembled genomic and tissue-specific transcriptomic data resources for two genetically distinct lines of Cowpea (Vigna unguiculata (L.) Walp). Gates Open Research, 2018, 2, 7.	2.0	19
57	Structural variation and parallel evolution of apomixis in citrus during domestication and diversification. National Science Review, 2022, 9, .	4.6	19
58	Title is missing!. Molecular Breeding, 1998, 4, 235-235.	1.0	16
59	Intron sequences modulate feather keratin gene transcription inXenopusoocytes. Nucleic Acids Research, 1986, 14, 6375-6392.	6.5	15
60	A Comparison of In Vitro and In Vivo Asexual Embryogenesis. Methods in Molecular Biology, 2016, 1359, 3-23.	0.4	14
61	Molecular Cloning and Characterization of a Linalool Synthase from Lemon Myrtle. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1245-1248.	0.6	13
62	Seeds of doubt: Mendelâ€™s choice of Hieracium to study inheritance, a case of right plant, wrong trait. Theoretical and Applied Genetics, 2016, 129, 2253-2266.	1.8	13
63	New observations on gametogenic development and reproductive experimental tools to support seed yield improvement in cowpea [Vigna unguiculata (L.) Walp.]. Plant Reproduction, 2016, 29, 165-177.	1.3	12
64	A MULTICOPY SUPPRESSOR OF IRA1 (MSI1) homologue is not associated with the switch to autonomous seed development in apomictic (asexual) Hieracium plants. Plant Science, 2010, 179, 590-597.	1.7	11
65	Regulation of nucellar embryony, a mode of sporophytic apomixis in Citrus resembling somatic embryogenesis. Current Opinion in Plant Biology, 2021, 59, 101984.	3.5	11
66	Random Sequencing of Sweet Orange (Citrus sinensis Osbeck) cDNA Library Derived from Young Seeds. Journal of the Japanese Society for Horticultural Science, 1996, 65, 487-495.	0.4	11
67	fist : an Arabidopsis mutant with altered cell division planes and radial pattern disruption during embryogenesis. Sexual Plant Reproduction, 1997, 10, 358-367.	2.2	10
68	A reference genetic linkage map of apomictic Hieracium species based on expressed markers derived from developing ovule transcripts. Annals of Botany, 2015, 115, 567-580.	1.4	10
69	Genetic analyses of the inheritance and expressivity of autonomous endosperm formation in Hieracium with different modes of embryo sac and seed formation. Annals of Botany, 2017, 119, mcw262.	1.4	10
70	Promoter efficiency depends upon intragenic sequences. Nucleic Acids Research, 1987, 15, 7795-7807.	6.5	9
71	Hop Stunt Viroid in Australian Grapevine Cultivars: Potential for Hop Infection.. Australasian Plant Pathology, 1988, 17, 7.	0.5	9
72	Expression patterns and protein structure of a lipid transfer protein END1 from Arabidopsis. Planta, 2014, 240, 1319-1334.	1.6	6

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73	Efficient CRISPR/Cas9-Mediated Knockout of an Endogenous PHYTOENE DESATURASE Gene in T1 Progeny of Apomictic Hieracium Enables New Strategies for Apomixis Gene Identification. Genes, 2020, 11, 1064.	1.0	6
74	Functional embryo sac formation in Arabidopsis without meiosis â€" one step towards asexual seed formation (apomixis) in crops?. Journal of Biosciences, 2008, 33, 309-311.	0.5	5
75	Apomixis â€" other pathways for reproductive development in angiosperms. Advances in Cellular and Molecular Biology of Plants, 1994, , 486-512.	0.2	5
76	Title is missing!. Molecular Breeding, 1998, 4, 253-261.	1.0	4
77	8th International Congress of Plant Molecular Biologyâ€"Final Scientific Program. Plant Molecular Biology Reporter, 2006, 24, 141-160.	1.0	2
78	Crystallization and preliminary X-ray analysis of geraniol dehydrogenase fromBackhousia citriodora(lemon myrtle). Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 665-667.	0.7	2
79	Development: Turning on endosperm in seeds. Nature Plants, 2015, 1, 15189.	4.7	2
80	Phenotypic plasticity of aposporous embryo sac development in Hieracium praealtum. Plant Signaling and Behavior, 2019, 14, 1622981.	1.2	2
81	Advances in Apomixis Research: Can we Fix Heterosis?. , 2003, , 38-46.		2
82	Apomixis takes centre stage. Trends in Plant Science, 2001, 6, 543.	4.3	1
83	Isolation and characterization of microsatellites loci in the lemon (Citrus limon). Molecular Ecology Notes, 2005, 5, 253-255.	1.7	1
84	Cycloheximide Inhibition of Cytokinin-dependent Protein Synthesis: Correlation with Betacyanin Synthesis. Functional Plant Biology, 1983, 10, 145.	1.1	1
85	8th International Congress of Plant Molecular Biology, Adelaide, South Australia, August 20â€"25, 2006. Plant Molecular Biology Reporter, 2004, 22, 127-127.	1.0	0
86	8th International Congress of Plant Molecular Biology, Adelaide, South Australia, August 20â€"25, 2006. Plant Molecular Biology Reporter, 2004, 22, 3-3.	1.0	0
87	Harnessing Asexual Seed Formation to Preserve Hybrid Vigour and Complex Yield Traits. Proceedings (mdpi), 2019, 36, .	0.2	0