Anna M G Koltunow

List of Publications by Year
in descending order

87 papers	6,787 citations	76196 40 h-index	62479 80 g-index
93 all docs	93 docs citations	93 times ranked	4787 citing authors

#	Article	IF	Citations
1	Structural variation and parallel evolution of apomixis in citrus during domestication and diversification. National Science Review, 2022, 9, .	4.6	19
2	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
3	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
4	A detached leaf assay for testing transient gene expression and gene editing in cowpea (Vigna) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.9	28
5	Unequal contribution of two paralogous CENH3 variants in cowpea centromere function. Communications Biology, 2020, 3, 775.	2.0	20
6	Phenotypic plasticity of aposporous embryo sac development in Hieracium praealtum. Plant Signaling and Behavior, 2019, 14, 1622981.	1.2	2
7	Harnessing Asexual Seed Formation to Preserve Hybrid Vigour and Complex Yield Traits. Proceedings (mdpi), 2019, 36, .	0.2	0
8	Asexual Female Gametogenesis Involves Contact with a Sexually-Fated Megaspore in Apomictic <i>Hieracium</i>. Plant Physiology, 2018, 177, 1027-1049.	2.3	28
9	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
10	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
11	A Genetic Screen for Impaired Systemic RNAi Highlights the Crucial Role of DICER-LIKE 2. Plant Physiology, 2017, 175, 1424-1437.	2.3	72
12	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
13	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
14	Mechanisms of endosperm initiation. Plant Reproduction, 2016, 29, 215-225.	1.3	34
15	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
16	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
17	A Comparison of In Vitro and In Vivo Asexual Embryogenesis. Methods in Molecular Biology, 2016, 1359, 3-23.	0.4	14
18	Development: Turning on endosperm in seeds. Nature Plants, 2015, 1, 15189.	4.7	2

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19	Developmentally regulated<i>HEART STOPPER</i>, a mitochondrially targeted L18 ribosomal protein gene, is required for cell division, differentiation, and seed development in<i>Arabidopsis</i>. Journal of Experimental Botany, 2015, 66, 5867-5880.	2.4	24
20	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
21	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
22	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
23	Expression patterns and protein structure of a lipid transfer protein END1 from Arabidopsis. Planta, 2014, 240, 1319-1334.	1.6	6
24	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
25	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
26	The Genetic Control of Apomixis: Asexual Seed Formation. Genetics, 2014, 197, 441-450.	1.2	260
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	Enlarging Cells Initiating Apomixis in <i>Hieracium praealtum</i> Transition to an Embryo Sac Program prior to Entering Mitosis Â Â. Plant Physiology, 2013, 163, 216-231.	2.3	78
29	Sporophytic ovule tissues modulate the initiation and progression of apomixis in Hieracium. Journal of Experimental Botany, 2012, 63, 3229-3241.	2.4	39
30	Somatic small RNA pathways promote the mitotic events of megagametogenesis during female reproductive development in <i>Arabidopsis</i>. Development (Cambridge), 2012, 139, 1399-1404.	1.2	145
31	The Female Gametophyte. The Arabidopsis Book, 2011, 9, e0155.	0.5	145
32	Chromosomes Carrying Meiotic Avoidance Loci in Three Apomictic Eudicot <i>Hieracium</i> Subgenus <i>Pilosella</i> Species Share Structural Features with Two Monocot Apomicts Â Â. Plant Physiology, 2011, 157, 1327-1341.	2.3	51
33	Sexual reproduction is the default mode in apomictic <i>Hieracium</i> subgenus <i>Pilosella</i>, in which two dominant loci function to enable apomixis. Plant Journal, 2011, 66, 890-902.	2.8	117
34	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
35	Molecular Cloning and Characterization of a Linalool Synthase from Lemon Myrtle. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1245-1248.	0.6	13
36	Apomixis in hawkweed: Mendel's experimental nemesis. Journal of Experimental Botany, 2011, 62, 1699-1707.	2.4	28

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37	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
38	Polycomb group gene function in sexual and asexual seed development in angiosperms. Sexual Plant Reproduction, 2010, 23, 123-133.	2.2	44
39	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
40	Sexual and asexual (apomictic) seed development in flowering plants: molecular, morphological and evolutionary relationships. Functional Plant Biology, 2009, 36, 490.	1.1	64
41	The<i>Arabidopsis</i>MYB5 Transcription Factor Regulates Mucilage Synthesis, Seed Coat Development, and Trichome Morphogenesis Â. Plant Cell, 2009, 21, 72-89.	3.1	186
42	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
43	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
44	Expression of Aberrant Forms of<i>AUXIN RESPONSE FACTOR8</i>Stimulates Parthenocarpy in Arabidopsis and Tomato. Plant Physiology, 2007, 145, 351-366.	2.3	208
45	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
46	8th International Congress of Plant Molecular Biologyâ€"Final Scientific Program. Plant Molecular Biology Reporter, 2006, 24, 141-160.	1.0	2
47	Single-stranded DNA of Tomato leaf curl virus accumulates in the cytoplasm of phloem cells. Virology, 2006, 348, 120-132.	1.1	26
48	AUXIN RESPONSE FACTOR8 Is a Negative Regulator of Fruit Initiation in Arabidopsis Â. Plant Cell, 2006, 18, 1873-1886.	3.1	261
49	Isolation and characterization of microsatellites loci in the lemon (Citrus limon). Molecular Ecology Notes, 2005, 5, 253-255.	1.7	1
50	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
51	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
52	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
53	Understanding Apomixis: Recent Advances and Remaining Conundrums. Plant Cell, 2004, 16, S228-S245.	3.1	368
54	APOMIXIS: A Developmental Perspective. Annual Review of Plant Biology, 2003, 54, 547-574.	8.6	418

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55	Sexual and Apomictic Reproduction in Hieracium subgenus Pilosella Are Closely Interrelated Developmental Pathways. Plant Cell, 2003, 15, 1524-1537.	3.1	126
56	Advances in Apomixis Research: Can we Fix Heterosis?. , 2003, , 38-46.		2
57	Control of Early Seed Development. Annual Review of Cell and Developmental Biology, 2001, 17, 677-699.	4.0	184
58	Apomixis takes centre stage. Trends in Plant Science, 2001, 6, 543.	4.3	1
59	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
60	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
61	Fruit development is actively restricted in the absence of fertilization in<i>Arabidopsis</i>. Development (Cambridge), 2001, 128, 2321-2331.	1.2	103
62	Apomixis is not developmentally conserved in related, genetically characterized Hieracium plants of varying ploidy. Sexual Plant Reproduction, 2000, 12, 253-266.	2.2	64
63	A DEFICIENS homologue is down-regulated during apomictic initiation in ovules of Hieracium. Planta, 2000, 210, 914-920.	1.6	37
64	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
65	Genetic Analysis of Growth-Regulator-Induced Parthenocarpy in Arabidopsis. Plant Physiology, 1999, 121, 437-452.	2.3	158
66	Title is missing!. Molecular Breeding, 1998, 4, 235-235.	1.0	16
67	Title is missing!. Molecular Breeding, 1998, 4, 253-261.	1.0	4
68	Sexual and apomictic development in Hieracium. Sexual Plant Reproduction, 1998, 11, 213-230.	2.2	105
69	A bright future for apomixis. Trends in Plant Science, 1998, 3, 415-416.	4.3	49
70	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
71	Polyembryony in Citrus (Accumulation of Seed Storage Proteins in Seeds and in Embryos Cultured in) Tj ETQq1 1 0.784314 rgBT /Overlo	2.3	61
72	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

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73	Apomixis: Molecular Strategies for the Generation of Genetically Identical Seeds without Fertilization. Plant Physiology, 1995, 108, 1345-1352.	2.3	167
74	Anther, ovule, seed, and nucellar embryo development in<i>Citrus sinensis</i>cv. Valencia. Canadian Journal of Botany, 1995, 73, 1567-1582.	1.2	64
75	Cell Differentiation and Morphogenesis Are Uncoupled in Arabidopsis raspberry Embryos. Plant Cell, 1994, 6, 1713.	3.1	64
76	Apomixis â€" other pathways for reproductive development in angiosperms. Advances in Cellular and Molecular Biology of Plants, 1994, , 486-512.	0.2	5
77	Apomixis: Embryo Sacs and Embryos Formed without Meiosis or Fertilization in Ovules. Plant Cell, 1993, 5, 1425.	3.1	86
78	Apomixis: Embryo Sacs and Embryos Formed without Meiosis or Fertilization in Ovules.. Plant Cell, 1993, 5, 1425-1437.	3.1	363
79	Different Temporal and Spatial Gene Expression Patterns Occur during Anther Development. Plant Cell, 1990, 2, 1201.	3.1	128
80	Different Temporal and Spatial Gene Expression Patterns Occur during Anther Development.. Plant Cell, 1990, 2, 1201-1224.	3.1	634
81	A Scheme for Viroid Classification. Intervirology, 1989, 30, 194-201.	1.2	70
82	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
83	Hop Stunt Viroid in Australian Grapevine Cultivars: Potential for Hop Infection.. Australasian Plant Pathology, 1988, 17, 7.	0.5	9
84	Grapevine yellow speckle viroid: structural features of a new viroid group. Nucleic Acids Research, 1988, 16, 849-864.	6.5	81
85	Promoter efficiency depends upon intragenic sequences. Nucleic Acids Research, 1987, 15, 7795-7807.	6.5	9
86	Intron sequences modulate feather keratin gene transcription inXenopusoocytes. Nucleic Acids Research, 1986, 14, 6375-6392.	6.5	15
87	Cycloheximide Inhibition of Cytokinin-dependent Protein Synthesis: Correlation with Betacyanin Synthesis. Functional Plant Biology, 1983, 10, 145.	1.1	1