Iris Meier

List of Publications by Year
in descending order

66 papers	3,050 citations	136740 32 h-index	174990 52 g-index
70 all docs	70 docs citations	70 times ranked	2562 citing authors

#	Article	IF	Citations
1	Distinct Roles for KASH Proteins SINE1 and SINE2 in Guard Cell Actin Reorganization, Calcium Oscillations, and Vacuolar Remodeling. Frontiers in Plant Science, 2022, 13, .	1.7	2
2	Recent advances in understanding the biological roles of the plant nuclear envelope. Nucleus, 2020, 11, 330-346.	0.6	16
3	Arabidopsis KASH Proteins SINE1 and SINE2 Are Involved in Microtubule Reorganization During ABA-Induced Stomatal Closure. Frontiers in Plant Science, 2020, 11, 575573.	1.7	10
4	LINC-complex mediated positioning of the vegetative nucleus is involved in calcium and ROS signaling in Arabidopsis pollen tubes. Nucleus, 2020, 11, 149-163.	0.6	15
5	A Role for Plant KASH Proteins in Regulating Stomatal Dynamics. Plant Physiology, 2020, 182, 1100-1113.	2.3	12
6	A nuclear localization signal targets tail-anchored membrane proteins to the inner nuclear envelope in plants. Journal of Cell Science, 2019, 132, .	1.2	8
7	Medicago LINC Complexes Function in Nuclear Morphology, Nuclear Movement, and Root Nodule Symbiosis. Plant Physiology, 2019, 179, 491-506.	2.3	21
8	Dynamic Changes in Plant Nuclear Organization in Response to Environmental and Developmental Signals. Plant Physiology, 2018, 176, 230-241.	2.3	26
9	Computational Methods for Studying the Plant Nucleus. Methods in Molecular Biology, 2018, 1840, 205-219.	0.4	0
10	Cell Biology of the Plant Nucleus. Annual Review of Plant Biology, 2017, 68, 139-172.	8.6	87
11	Regulation of nuclear shape and size in plants. Current Opinion in Cell Biology, 2016, 40, 114-123.	2.6	25
12	Exploring the Protein Composition of the Plant Nuclear Envelope. Methods in Molecular Biology, 2016, 1411, 45-65.	0.4	2
13	LINCing the eukaryotic tree of life â€“ towards a broad evolutionary comparison of nucleocytoplasmic bridging complexes. Journal of Cell Science, 2016, 129, 3523-3531.	1.2	37
14	The plant nuclear envelope as a multifunctional platform LINCed by SUN and KASH. Journal of Experimental Botany, 2015, 66, 1649-1659.	2.4	39
15	GAP Activity, but Not Subcellular Targeting, Is Required for Arabidopsis RanGAP Cellular and Developmental Functions. Plant Cell, 2015, 27, 1985-1998.	3.1	17
16	Plant nuclear shape is independently determined by the SUN-WIP-WIT2-myosin XI-i complex and CRWN1. Nucleus, 2015, 6, 144-153.	0.6	52
17	SUN anchors pollen WIPâ€“WIT complexes at the vegetative nuclear envelope and is necessary for pollen tube targeting and fertility. Journal of Experimental Botany, 2015, 66, 7299-7307.	2.4	31
18	Nuclei in motion: movement and positioning of plant nuclei in development, signaling, symbiosis, and disease. Frontiers in Plant Science, 2014, 5, 129.	1.7	46

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19	Efficient plant male fertility depends on vegetative nuclear movement mediated by two families of plant outer nuclear membrane proteins. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11900-11905.	3.3	60
20	Identification of unique SUN-interacting nuclear envelope proteins with diverse functions in plants. Journal of Cell Biology, 2014, 205, 677-692.	2.3	78
21	How plants LINC the SUN to KASH. Nucleus, 2013, 4, 206-215.	0.6	45
22	Functional Investigation of the Plant-Specific Long Coiled-Coil Proteins PAMP-INDUCED COILED-COIL (PICC) and PICC-LIKE (PICL) in Arabidopsis thaliana. PLoS ONE, 2013, 8, e57283.	1.1	6
23	Novel plant SUNâ€"KASH bridges are involved in RanGAP anchoring and nuclear shape determination. Journal of Cell Biology, 2012, 196, 203-211.	2.3	147
24	Dynamics of the Plant Nuclear Envelope and Nuclear Pore. Plant Physiology, 2012, 158, 78-86.	2.3	42
25	mRNA export and sumoylationâ€"Lessons from plants. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 531-537.	0.9	20
26	Functional interaction between the Arabidopsis orthologs of spindle assembly checkpoint proteins MAD1 and MAD2 and the nucleoporin NUA. Plant Molecular Biology, 2012, 79, 203-216.	2.0	47
27	Regulation of nucleocytoplasmic trafficking in plants. Current Opinion in Plant Biology, 2011, 14, 538-546.	3.5	60
28	Genetic and environmental changes in SUMO homeostasis lead to nuclear mRNA retention in plants. Planta, 2011, 233, 201-208.	1.6	27
29	Identification and characterization of the<i>Arabidopsis</i>FG-repeat nucleoporin Nup62. Plant Signaling and Behavior, 2011, 6, 330-334.	1.2	27
30	RanGAP is required for post-meiotic mitosis in female gametophyte development in Arabidopsis thaliana. Journal of Experimental Botany, 2011, 62, 2705-2714.	2.4	31
31	Targeting proteins to the plant nuclear envelope. Biochemical Society Transactions, 2010, 38, 733-740.	1.6	25
32	The Arabidopsis Nuclear Pore and Nuclear Envelope. The Arabidopsis Book, 2010, 8, e0139.	0.5	25
33	WPP-Domain Proteins Mimic the Activity of the HSC70-1 Chaperone in Preventing Mistargeting of RanGAP1-Anchoring Protein WIT1. Plant Physiology, 2009, 151, 142-154.	2.3	23
34	The nuclear pore and plant development. Current Opinion in Plant Biology, 2009, 12, 87-95.	3.5	66
35	Adding pieces to the puzzling plant nuclear envelope. Current Opinion in Plant Biology, 2009, 12, 752-759.	3.5	34
36	Going green: plants' alternative way to position the Ran gradient. Journal of Microscopy, 2008, 231, 225-233.	0.8	15

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37	The nuclear pore comes to the fore. Trends in Plant Science, 2008, 13, 20-27.	4.3	72
38	RanGAP1 is a continuous marker of the <i>Arabidopsis</i> cell division plane. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18637-18642.	3.3	130
39	Two Distinct Interacting Classes of Nuclear Envelopeâ€"Associated Coiled-Coil Proteins Are Required for the Tissue-Specific Nuclear Envelope Targeting of Arabidopsis RanGAP. Plant Cell, 2008, 20, 1639-1651.	3.1	100
40	NUA Activities at the Plant Nuclear Pore. Plant Signaling and Behavior, 2007, 2, 553-555.	1.2	14
41	NUCLEAR PORE ANCHOR, the Arabidopsis Homolog of Tpr/Mlp1/Mlp2/Megator, Is Involved in mRNA Export and SUMO Homeostasis and Affects Diverse Aspects of Plant Development. Plant Cell, 2007, 19, 1537-1548.	3.1	169
42	Anchorage of Plant RanGAP to the Nuclear Envelope Involves Novel Nuclear-Pore-Associated Proteins. Current Biology, 2007, 17, 1157-1163.	1.8	114
43	Isolation of Nuclear Proteins. , 2006, 323, 393-402.		18
44	Dual location of MAR-binding, filament-like protein 1 in Arabidopsis, tobacco, and tomato. Planta, 2006, 223, 1201-1206.	1.6	23
45	Identification and Characterization of the Arabidopsis Orthologs of Nuclear Transport Factor 2, the Nuclear Import Factor of Ran. Plant Physiology, 2006, 140, 869-878.	2.3	49
46	Composition of the plant nuclear envelope: theme and variations. Journal of Experimental Botany, 2006, 58, 27-34.	2.4	95
47	CK2 phosphorylation weakens 90 kDa MFP1 association to the nuclear matrix in Allium cepa. Journal of Experimental Botany, 2006, 57, 113-124.	2.4	24
48	Plant-specific mitotic targeting of RanGAP requires a functional WPP domain. Plant Journal, 2005, 42, 270-282.	2.8	58
49	Coiled-coil protein composition of 22 proteomes--differences and common themes in subcellular infrastructure and traffic control. BMC Evolutionary Biology, 2005, 5, 66.	3.2	104
50	The plant nuclear envelope protein MAF1 has an additional location at the Golgi and binds to a novel Golgi-associated coiled-coil protein. Planta, 2005, 222, 1028-1040.	1.6	8
51	Nucleocytoplasmic Trafficking in Plant Cells. International Review of Cytology, 2005, 244, 95-135.	6.2	18
52	Genome-Wide Identification of Arabidopsis Coiled-Coil Proteins and Establishment of the ARABI-COIL Database. Plant Physiology, 2004, 134, 927-939.	2.3	61
53	Arabidopsis WPP-Domain Proteins Are Developmentally Associated with the Nuclear Envelope and Promote Cell Division [W]. Plant Cell, 2004, 16, 3260-3273.	3.1	77
54	The plant nuclear envelope. Planta, 2004, 218, 327-336.	1.6	40

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55	Phosphorylation by protein kinase CKII modulates the DNA-binding activity of a chloroplast nucleoid-associated protein. Planta, 2004, 219, 298-302.	1.6	23
56	A proteomic study of the arabidopsis nuclear matrix. Journal of Cellular Biochemistry, 2003, 90, 361-378.	1.2	95
57	A novel alphaâ€helical protein, specific to and highly conserved in plants, is associated with the nuclear matrix fraction. Journal of Experimental Botany, 2003, 54, 1133-1141.	2.4	17
58	MFP1 is a thylakoid-associated, nucleoid-binding protein with a coiled-coil structure. Nucleic Acids Research, 2003, 31, 5175-5185.	6.5	103
59	Characterisation and high-resolution distribution of a matrix attachment region-binding protein (MFP1) in proliferating cells of onion. Planta, 2001, 212, 535-546.	1.6	15
60	A Novel Link between Ran Signal Transduction and Nuclear Envelope Proteins in Plants: Fig. 1.. Plant Physiology, 2000, 124, 1507-1510.	2.3	38
61	Conservation of Matrix Attachment Region-Binding Filament-Like Protein 1 among Higher Plants. Plant Physiology, 2000, 122, 225-234.	2.3	28
62	MAF1, a Novel Plant Protein Interacting with Matrix Attachment Region Binding Protein MFP1, Is Located at the Nuclear Envelope. Plant Cell, 1999, 11, 1755-1767.	3.1	70
63	Matrix Attachment Region Binding Protein MFP1 Is Localized in Discrete Domains at the Nuclear Envelope. Plant Cell, 1999, 11, 1117-1128.	3.1	69
64	The tomato I-box binding factor LeMYBI is a member of a novel class of Myb-like proteins. Plant Journal, 1999, 20, 641-652.	2.8	102
65	Improved ballistic transient transformation conditions for tomato fruit allow identification of organ-specific contributions of I-box and G-box to the RBCS2 promoter activity. Plant Journal, 1997, 12, 463-469.	2.8	23
66	Novel conserved sequence motifs in plant G-box binding proteins and implications for interactive domains. Nucleic Acids Research, 1994, 22, 470-478.	6.5	63