Brenda S J Winkel

List of Publications by Year
in descending order

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69 papers	10,640 citations	101384 36 h-index	95083 68 g-index
72 all docs	72 docs citations	72 times ranked	9816 citing authors

#	Article	IF	Citations
1	Mutations that alter Arabidopsis flavonoid metabolism affect the circadian clock. Plant Journal, 2022, 110, 932-945.	2.8	18
2	Photodynamic antimicrobial studies on a Ruthenium-based metal complex. Inorganica Chimica Acta, 2022, 538, 120996.	1.2	7
3	Modulation of Arabidopsis Flavonol Biosynthesis Genes by Cyst and Root-Knot Nematodes. Plants, 2020, 9, 253.	1.6	11
4	The dynamic response of the Arabidopsis root metabolome to auxin and ethylene is not predicted by changes in the transcriptome. Scientific Reports, 2020, 10, 679.	1.6	16
5	Charting blackwater rivers. Nature Plants, 2018, 4, 987-988.	4.7	0
6	Mechanistic Investigation into DNA Modification by a Ru II ,Rh III Bimetallic Complex. ChemBioChem, 2018, 19, 2216-2224.	1.3	4
7	Identification of MOS9 as an interaction partner for chalcone synthase in the nucleus. PeerJ, 2018, 6, e5598.	0.9	6
8	Visible light induced antibacterial properties of a Ru(II)â€“Pt(II) bimetallic complex. Inorganica Chimica Acta, 2017, 454, 229-233.	1.2	17
9	Exploring the activity of a polyazine bridged Ru(<scp>ii</scp>)â€“Pt(<scp>ii</scp>) supramolecule in F98 rat malignant glioma cells. Chemical Communications, 2017, 53, 145-148.	2.2	26
10	Exogenous Auxin Elicits Changes in the Arabidopsis thaliana Root Proteome in a Time-Dependent Manner. Proteomes, 2017, 5, 16.	1.7	10
11	When an enzyme isnâ€™t just an enzyme anymore. Journal of Experimental Botany, 2017, 68, 1387-1389.	2.4	9
12	Evolutionary correlations in flavonoid production across flowers and leaves in the Iochrominae (Solanaceae). Phytochemistry, 2016, 130, 119-127.	1.4	39
13	Pushing the limits of structurally-diverse light-harvesting Ru(II) metal-organic chromophores for photodynamic therapy. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 322-323, 67-75.	2.0	15
14	A new class of Ru(<scp>ii</scp>) polyazine agents with potential for photodynamic therapy. Chemical Communications, 2016, 52, 2705-2708.	2.2	29
15	Redâ€Lightâ€Induced Inhibition of DNA Replication and Amplification by PCR with an Os/Rh Supramolecule. Angewandte Chemie - International Edition, 2013, 52, 1262-1265.	7.2	23
16	Metal to ligand charge transfer induced DNA photobinding in a Ru(ii)â€“Pt(ii) supramolecule using red light in the therapeutic window: a new mechanism for DNA modification. Chemical Communications, 2012, 48, 67-69.	2.2	92
17	Effects of exogenous auxin and ethylene on the Arabidopsis root proteome. Phytochemistry, 2012, 84, 18-23.	1.4	11
18	Analysis of T-DNA alleles of flavonoid biosynthesis genes in Arabidopsis ecotype Columbia. BMC Research Notes, 2012, 5, 485.	0.6	44

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19	A new, bioactive structural motif: Visible light induced DNA photobinding and oxygen independent photocleavage by RuII, RhIII bimetallics. Journal of Inorganic Biochemistry, 2012, 116, 135-139.	1.5	22
20	Characterization of flavonol glycosides in individual Arabidopsis root tips by flow injection electrospray mass spectrometry. Phytochemistry, 2012, 73, 114-118.	1.4	6
21	Redox, Spectroscopic, and Photophysical Properties of Ruâ^'Pt Mixed-Metal Complexes Incorporating 4,7-Diphenyl-1,10-phenanthroline as Efficient DNA Binding and Photocleaving Agents. Inorganic Chemistry, 2011, 50, 463-470.	1.9	77
22	A new Os,Rh bimetallic with O2 independent DNA cleavage and DNA photobinding with red therapeutic light excitation. Chemical Communications, 2011, 47, 9786.	2.2	42
23	FÃ¶rster resonance energy transfer demonstrates a flavonoid metabolon in living plant cells that displays competitive interactions between enzymes. FEBS Letters, 2011, 585, 2193-2198.	1.3	70
24	Auxin and Ethylene Induce Flavonol Accumulation through Distinct Transcriptional Networks Â Â Â. Plant Physiology, 2011, 156, 144-164.	2.3	271
25	Mapping of an anthocyanin-regulating MYB transcription factor and its expression in red and green pear, Pyrus communis. Plant Physiology and Biochemistry, 2010, 48, 1020-1026.	2.8	60
26	Transcription Factor Families Regulate the Anthocyanin Biosynthetic Pathway in Capsicum annuum. Journal of the American Society for Horticultural Science, 2009, 134, 244-251.	0.5	67
27	DNA interaction studies of tridentate bridged Ru(II)â€"Pt(II) mixed-metal supramolecules. Journal of Inorganic Biochemistry, 2009, 103, 427-431.	1.5	31
28	Comparative characterization of the Arabidopsis subfamily a1 Î²-galactosidases. Phytochemistry, 2009, 70, 1999-2009.	1.4	31
29	Multifunctional DNA Interactions of Ruâ^'Pt Mixed Metal Supramolecular Complexes with Substituted Terpyridine Ligands. Inorganic Chemistry, 2009, 48, 9077-9084.	1.9	38
30	Metabolite Channeling and Multi-enzyme Complexes. , 2009, , 195-208.		7
31	Biochemical and genetic characterization of Arabidopsis flavanone 3Î²-hydroxylase. Plant Physiology and Biochemistry, 2008, 46, 833-843.	2.8	88
32	Photochemical methods to assay DNA photocleavage using supercoiled pUC18 DNA and LED or xenon arc lamp excitation. Journal of Inorganic Biochemistry, 2008, 102, 731-739.	1.5	9
33	Enhanced DNA photocleavage properties of Ru(II) terpyridine complexes upon incorporation of methylphenyl substituted terpyridine and/or the polyazine bridging ligand dpp (2,3-bis(2-pyridyl)pyrazine). Journal of Inorganic Biochemistry, 2008, 102, 1854-1861.	1.5	36
34	Functional Analysis of a Predicted Flavonol Synthase Gene Family in Arabidopsis Â Â. Plant Physiology, 2008, 147, 1046-1061.	2.3	217
35	Functional analysis of Arabidopsis genes involved in mitochondrial ironâ€"sulfur cluster assembly. Plant Molecular Biology, 2007, 64, 225-240.	2.0	55
36	In vivo inhibition of E. coli growth by a Ru(II)/Pt(II) supramolecule [(tpy)RuCl(dpp)PtCl2](PF6). Journal of Inorganic Biochemistry, 2007, 101, 1525-1528.	1.5	33

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37	A Multifunctional Tetrametallic Ruâ"Pt Supramolecular Complex Exhibiting Both DNA Binding and Photocleavage. Inorganic Chemistry, 2006, 45, 10413-10415.	1.9	54
38	Molecular modeling of the effects of mutant alleles on chalcone synthase protein structure. Journal of Molecular Modeling, 2006, 12, 905-914.	0.8	9
39	Variation of DNA photocleavage efficiency for [(TL)2Ru(dpp)]Cl2 complexes where TL=2,2â€²-bipyridine, 1,10-phenanthroline, or 4,7-diphenyl-1,10-phenanthroline. Journal of Inorganic Biochemistry, 2006, 100, 1983-1987.	1.5	12
40	Nuclear Localization of Flavonoid Enzymes in Arabidopsis. Journal of Biological Chemistry, 2005, 280, 23735-23740.	1.6	199
41	METABOLIC CHANNELING IN PLANTS. Annual Review of Plant Biology, 2004, 55, 85-107.	8.6	559
42	Modulation of flavonoid metabolism in Arabidopsis using a phage-derived antibody. Molecular Breeding, 2004, 13, 333-343.	1.0	8
43	Functional genomic analysis of Arabidopsis thaliana glycoside hydrolase family 1. Plant Molecular Biology, 2004, 55, 343-367.	2.0	274
44	Synthesis, Characterization, and DNA Binding Properties of a Series of Ru, Pt Mixed-Metal Complexes. Inorganic Chemistry, 2003, 42, 4394-4400.	1.9	83
45	Chapter Six A mutational approach to dissection of flavonoid biosynthesis in arabidopsis. Recent Advances in Phytochemistry, 2002, 36, 95-110.	0.5	9
46	Biosynthesis of flavonoids and effects of stress. Current Opinion in Plant Biology, 2002, 5, 218-223.	3.5	1,598
47	DNA binding of mixed-metal supramolecular Ru, Pt complexes. Inorganic Chemistry Communication, 2002, 5, 1078-1081.	1.8	22
48	Flavonoid Biosynthesis. A Colorful Model for Genetics, Biochemistry, Cell Biology, and Biotechnology. Plant Physiology, 2001, 126, 485-493.	2.3	2,951
49	Localization of flavonoid enzymes in Arabidopsis roots. Plant Journal, 2001, 27, 37-48.	2.8	171
50	It takes a garden. How work on diverse plant species has contributed to an understanding of flavonoid metabolism. Plant Physiology, 2001, 127, 1399-404.	2.3	77
51	An allelic series for the chalcone synthase locus in Arabidopsis. Gene, 2000, 255, 127-138.	1.0	57
52	Evidence for enzyme complexes in the phenylpropanoid and flavonoid pathways. Physiologia Plantarum, 1999, 107, 142-149.	2.6	245
53	Disruption of specific flavonoid genes enhances the accumulation of flavonoid enzymes and end-products in Arabidopsis seedlings. Plant Molecular Biology, 1999, 40, 45-54.	2.0	150
54	Interactions among enzymes of the Arabidopsis flavonoid biosynthetic pathway. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 12929-12934.	3.3	339

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55	A light-independent developmental mechanism potentiates flavonoid gene expression in Arabidopsis seedlings. Plant Molecular Biology, 1998, 37, 217-223.	2.0	34
56	Flavonoids in seeds and grains: physiological function, agronomic importance and the genetics of biosynthesis. Seed Science Research, 1998, 8, 415-422.	0.8	147
57	Characterization of Flavonol Synthase and Leucoanthocyanidin Dioxygenase Genes in Arabidopsis (Further Evidence for Differential Regulation of "Early" and "Late" Genes). Plant Physiology, 1997, 113, 1437-1445.	2.3	243
58	A New Class of Supramolecular, Mixed-Metal DNA-Binding Agents:Â The Interaction of RuII,PtIIand OsII,PtIIBimetallic Complexes with DNA. Inorganic Chemistry, 1997, 36, 4534-4538.	1.9	74
59	Expression of chalcone synthase and chalcone isomerase proteins in Arabidopsis seedlings. Plant Molecular Biology, 1997, 35, 377-381.	2.0	35
60	Mixed-metal polymetallic platinum complexes designed to interact with DNA. Inorganica Chimica Acta, 1997, 264, 249-256.	1.2	37
61	Analysis of Flavanone 3-Hydroxylase in Arabidopsis Seedlings (Coordinate Regulation with Chalcone) Tj ETQq1 1 0.784314 rgBT /Over	2.3	207
62	Flavonoid biosynthesis: 'new' functions for an 'old' pathway. Trends in Plant Science, 1996, 1, 377-382.	4.3	379
63	Analysis of Arabidopsis mutants deficient in flavonoid biosynthesis. Plant Journal, 1995, 8, 659-671.	2.8	545
64	An Arabidopsis gene homologous to mammalian and insect genes encoding the largest proteasome subunit. Molecular Genetics and Genomics, 1993, 241-241, 586-594.	2.4	26
65	Effects of ionizing radiation on a plant genome: analysis of two Arabidopsis transparent testa mutations.. Plant Cell, 1992, 4, 333-347.	3.1	370
66	Comparison of the expression of two highly homologous members of the soybean ribulose-1,5-bisphosphate carboxylase small subunit gene family. Plant Molecular Biology, 1990, 14, 909-925.	2.0	35
67	A potential role for RNA turnover in the light regualtion of plant gene expression: ribulose-1, 5-bisphosphate carboxylase small subunit in soybean. Nucleic Acids Research, 1990, 18, 3377-3385.	6.5	69
68	5â€² proximal sequences of a soybean ribulose-1, 5-bisphosphate carboxylase small subunit gene direct light and phytochrome controlled transcription. Nucleic Acids Research, 1987, 15, 6501-6514.	6.5	24
69	Two soybean ribulose-1,5-bisphosphate carboxylase small subunit genes share extensive homology even in distant flanking sequences. Plant Molecular Biology, 1986, 7, 451-465.	2.0	45