

Brenda S J Winkel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8847293/publications.pdf>

Version: 2024-02-01

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	Flavonoid Biosynthesis. A Colorful Model for Genetics, Biochemistry, Cell Biology, and Biotechnology. <i>Plant Physiology</i> , 2001, 126, 485-493.	2.3	2,951
2	Biosynthesis of flavonoids and effects of stress. <i>Current Opinion in Plant Biology</i> , 2002, 5, 218-223.	3.5	1,598
3	METABOLIC CHANNELING IN PLANTS. <i>Annual Review of Plant Biology</i> , 2004, 55, 85-107.	8.6	559
4	Analysis of Arabidopsis mutants deficient in flavonoid biosynthesis. <i>Plant Journal</i> , 1995, 8, 659-671.	2.8	545
5	Flavonoid biosynthesis: 'new' functions for an 'old' pathway. <i>Trends in Plant Science</i> , 1996, 1, 377-382.	4.3	379
6	Effects of ionizing radiation on a plant genome: analysis of two Arabidopsis transparent testa mutations.. <i>Plant Cell</i> , 1992, 4, 333-347.	3.1	370
7	Interactions among enzymes of the Arabidopsis flavonoid biosynthetic pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 12929-12934.	3.3	339
8	Functional genomic analysis of Arabidopsis thaliana glycoside hydrolase family 1. <i>Plant Molecular Biology</i> , 2004, 55, 343-367.	2.0	274
9	Auxin and Ethylene Induce Flavonol Accumulation through Distinct Transcriptional Networks. <i>Plant Physiology</i> , 2011, 156, 144-164.	2.3	271
10	Evidence for enzyme complexes in the phenylpropanoid and flavonoid pathways. <i>Physiologia Plantarum</i> , 1999, 107, 142-149.	2.6	245
11	Characterization of Flavonol Synthase and Leucoanthocyanidin Dioxygenase Genes in Arabidopsis (Further Evidence for Differential Regulation of "Early" and "Late" Genes). <i>Plant Physiology</i> , 1997, 113, 1437-1445.	2.3	243
12	Functional Analysis of a Predicted Flavonol Synthase Gene Family in Arabidopsis. <i>Plant Physiology</i> , 2008, 147, 1046-1061.	2.3	217
13	Analysis of Flavanone 3-Hydroxylase in Arabidopsis Seedlings (Coordinate Regulation with Chalcone). <i>Plant Physiology</i> , 2007, 145, 1078-1084.	2.3	207
14	Nuclear Localization of Flavonoid Enzymes in Arabidopsis. <i>Journal of Biological Chemistry</i> , 2005, 280, 23735-23740.	1.6	199
15	Localization of flavonoid enzymes in Arabidopsis roots. <i>Plant Journal</i> , 2001, 27, 37-48.	2.8	171
16	Disruption of specific flavonoid genes enhances the accumulation of flavonoid enzymes and end-products in Arabidopsis seedlings. <i>Plant Molecular Biology</i> , 1999, 40, 45-54.	2.0	150
17	Flavonoids in seeds and grains: physiological function, agronomic importance and the genetics of biosynthesis. <i>Seed Science Research</i> , 1998, 8, 415-422.	0.8	147
18	Metal to ligand charge transfer induced DNA photobinding in a Ru(ii)-Pt(ii) supramolecule using red light in the therapeutic window: a new mechanism for DNA modification. <i>Chemical Communications</i> , 2012, 48, 67-69.	2.2	92

#	ARTICLE	IF	CITATIONS
19	Biochemical and genetic characterization of Arabidopsis flavanone 3 ^β -hydroxylase. <i>Plant Physiology and Biochemistry</i> , 2008, 46, 833-843.	2.8	88
20	Synthesis, Characterization, and DNA Binding Properties of a Series of Ru, Pt Mixed-Metal Complexes. <i>Inorganic Chemistry</i> , 2003, 42, 4394-4400.	1.9	83
21	Redox, Spectroscopic, and Photophysical Properties of Ru ^{II} -Pt Mixed-Metal Complexes Incorporating 4,7-Diphenyl-1,10-phenanthroline as Efficient DNA Binding and Photocleaving Agents. <i>Inorganic Chemistry</i> , 2011, 50, 463-470.	1.9	77
22	It takes a garden. How work on diverse plant species has contributed to an understanding of flavonoid metabolism. <i>Plant Physiology</i> , 2001, 127, 1399-404.	2.3	77
23	A New Class of Supramolecular, Mixed-Metal DNA-Binding Agents: The Interaction of Ru ^{II} , Pt ^{II} and Os ^{II} , Pt ^{II} Bimetallic Complexes with DNA. <i>Inorganic Chemistry</i> , 1997, 36, 4534-4538.	1.9	74
24	Förster resonance energy transfer demonstrates a flavonoid metabolon in living plant cells that displays competitive interactions between enzymes. <i>FEBS Letters</i> , 2011, 585, 2193-2198.	1.3	70
25	A potential role for RNA turnover in the light regulation of plant gene expression: ribulose-1,5-bisphosphate carboxylase small subunit in soybean. <i>Nucleic Acids Research</i> , 1990, 18, 3377-3385.	6.5	69
26	Transcription Factor Families Regulate the Anthocyanin Biosynthetic Pathway in <i>Capsicum annuum</i> . <i>Journal of the American Society for Horticultural Science</i> , 2009, 134, 244-251.	0.5	67
27	Mapping of an anthocyanin-regulating MYB transcription factor and its expression in red and green pear, <i>Pyrus communis</i> . <i>Plant Physiology and Biochemistry</i> , 2010, 48, 1020-1026.	2.8	60
28	An allelic series for the chalcone synthase locus in Arabidopsis. <i>Gene</i> , 2000, 255, 127-138.	1.0	57
29	Functional analysis of Arabidopsis genes involved in mitochondrial iron-sulfur cluster assembly. <i>Plant Molecular Biology</i> , 2007, 64, 225-240.	2.0	55
30	A Multifunctional Tetrametallic Ru ^{II} -Pt Supramolecular Complex Exhibiting Both DNA Binding and Photocleavage. <i>Inorganic Chemistry</i> , 2006, 45, 10413-10415.	1.9	54
31	Two soybean ribulose-1,5-bisphosphate carboxylase small subunit genes share extensive homology even in distant flanking sequences. <i>Plant Molecular Biology</i> , 1986, 7, 451-465.	2.0	45
32	Analysis of T-DNA alleles of flavonoid biosynthesis genes in Arabidopsis ecotype Columbia. <i>BMC Research Notes</i> , 2012, 5, 485.	0.6	44
33	A new Os ₂ Rh bimetallic with O ₂ independent DNA cleavage and DNA photobinding with red therapeutic light excitation. <i>Chemical Communications</i> , 2011, 47, 9786.	2.2	42
34	Evolutionary correlations in flavonoid production across flowers and leaves in the Solanaceae. <i>Phytochemistry</i> , 2016, 130, 119-127.	1.4	39
35	Multifunctional DNA Interactions of Ru ^{II} -Pt Mixed Metal Supramolecular Complexes with Substituted Terpyridine Ligands. <i>Inorganic Chemistry</i> , 2009, 48, 9077-9084.	1.9	38
36	Mixed-metal polymetallic platinum complexes designed to interact with DNA. <i>Inorganica Chimica Acta</i> , 1997, 264, 249-256.	1.2	37

#	ARTICLE	IF	CITATIONS
37	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). <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 1854-1861.	1.5	36
38	Comparison of the expression of two highly homologous members of the soybean ribulose-1,5-bisphosphate carboxylase small subunit gene family. <i>Plant Molecular Biology</i> , 1990, 14, 909-925.	2.0	35
39	Expression of chalcone synthase and chalcone isomerase proteins in <i>Arabidopsis</i> seedlings. <i>Plant Molecular Biology</i> , 1997, 35, 377-381.	2.0	35
40	A light-independent developmental mechanism potentiates flavonoid gene expression in <i>Arabidopsis</i> seedlings. <i>Plant Molecular Biology</i> , 1998, 37, 217-223.	2.0	34
41	In vivo inhibition of <i>E. coli</i> growth by a Ru(II)/Pt(II) supramolecule [(tpy)RuCl(dpp)PtCl ₂](PF ₆). <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1525-1528.	1.5	33
42	DNA interaction studies of tridentate bridged Ru(II)-Pt(II) mixed-metal supramolecules. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 427-431.	1.5	31
43	Comparative characterization of the <i>Arabidopsis</i> subfamily α1 β ² -galactosidases. <i>Phytochemistry</i> , 2009, 70, 1999-2009.	1.4	31
44	A new class of Ru(II) polyazine agents with potential for photodynamic therapy. <i>Chemical Communications</i> , 2016, 52, 2705-2708.	2.2	29
45	An <i>Arabidopsis</i> gene homologous to mammalian and insect genes encoding the largest proteasome subunit. <i>Molecular Genetics and Genomics</i> , 1993, 241-241, 586-594.	2.4	26
46	Exploring the activity of a polyazine bridged Ru(II)-Pt(II) supramolecule in F98 rat malignant glioma cells. <i>Chemical Communications</i> , 2017, 53, 145-148.	2.2	26
47	5' proximal sequences of a soybean ribulose-1, 5-bisphosphate carboxylase small subunit gene direct light and phytochrome controlled transcription. <i>Nucleic Acids Research</i> , 1987, 15, 6501-6514.	6.5	24
48	Red-light induced inhibition of DNA replication and amplification by PCR with an Os/Rh supramolecule. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1262-1265.	7.2	23
49	DNA binding of mixed-metal supramolecular Ru, Pt complexes. <i>Inorganic Chemistry Communication</i> , 2002, 5, 1078-1081.	1.8	22
50	A new, bioactive structural motif: Visible light induced DNA photobinding and oxygen independent photocleavage by Ru(II), Rh(III) bimetallics. <i>Journal of Inorganic Biochemistry</i> , 2012, 116, 135-139.	1.5	22
51	Mutations that alter <i>Arabidopsis</i> flavonoid metabolism affect the circadian clock. <i>Plant Journal</i> , 2022, 110, 932-945.	2.8	18
52	Visible light induced antibacterial properties of a Ru(II)-Pt(II) bimetallic complex. <i>Inorganica Chimica Acta</i> , 2017, 454, 229-233.	1.2	17
53	The dynamic response of the <i>Arabidopsis</i> root metabolome to auxin and ethylene is not predicted by changes in the transcriptome. <i>Scientific Reports</i> , 2020, 10, 679.	1.6	16
54	Pushing the limits of structurally-diverse light-harvesting Ru(II) metal-organic chromophores for photodynamic therapy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 322-323, 67-75.	2.0	15

#	ARTICLE	IF	CITATIONS
55	Variation of DNA photocleavage efficiency for [(TL) ₂ Ru(dpp)]Cl ₂ complexes where TL=2,2'-bipyridine, 1,10-phenanthroline, or 4,7-diphenyl-1,10-phenanthroline. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 1983-1987.	1.5	12
56	Effects of exogenous auxin and ethylene on the Arabidopsis root proteome. <i>Phytochemistry</i> , 2012, 84, 18-23.	1.4	11
57	Modulation of Arabidopsis Flavonol Biosynthesis Genes by Cyst and Root-Knot Nematodes. <i>Plants</i> , 2020, 9, 253.	1.6	11
58	Exogenous Auxin Elicits Changes in the Arabidopsis thaliana Root Proteome in a Time-Dependent Manner. <i>Proteomes</i> , 2017, 5, 16.	1.7	10
59	Chapter Six A mutational approach to dissection of flavonoid biosynthesis in arabidopsis. <i>Recent Advances in Phytochemistry</i> , 2002, 36, 95-110.	0.5	9
60	Molecular modeling of the effects of mutant alleles on chalcone synthase protein structure. <i>Journal of Molecular Modeling</i> , 2006, 12, 905-914.	0.8	9
61	Photochemical methods to assay DNA photocleavage using supercoiled pUC18 DNA and LED or xenon arc lamp excitation. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 731-739.	1.5	9
62	When an enzyme isn't just an enzyme anymore. <i>Journal of Experimental Botany</i> , 2017, 68, 1387-1389.	2.4	9
63	Modulation of flavonoid metabolism in Arabidopsis using a phage-derived antibody. <i>Molecular Breeding</i> , 2004, 13, 333-343.	1.0	8
64	Metabolite Channeling and Multi-enzyme Complexes. , 2009, , 195-208.		7
65	Photodynamic antimicrobial studies on a Ruthenium-based metal complex. <i>Inorganica Chimica Acta</i> , 2022, 538, 120996.	1.2	7
66	Characterization of flavonol glycosides in individual Arabidopsis root tips by flow injection electrospray mass spectrometry. <i>Phytochemistry</i> , 2012, 73, 114-118.	1.4	6
67	Identification of MOS9 as an interaction partner for chalcone synthase in the nucleus. <i>PeerJ</i> , 2018, 6, e5598.	0.9	6
68	Mechanistic Investigation into DNA Modification by a Ru II ,Rh III Bimetallic Complex. <i>ChemBioChem</i> , 2018, 19, 2216-2224.	1.3	4
69	Charting blackwater rivers. <i>Nature Plants</i> , 2018, 4, 987-988.	4.7	0