

Margaret Ahmad

List of Publications by Year in descending order

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76
papers

8,984
citations

47006

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66911

78
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all docs

79
docs citations

79
times ranked

5066
citing authors

#	ARTICLE	IF	CITATIONS
1	Exposure to 1.8 GHz radiofrequency field modulates ROS in human HEK293 cells as a function of signal amplitude. <i>Communicative and Integrative Biology</i> , 2022, 15, 54-66.	1.4	6
2	Stop CRYing! Inhibition of cryptochrome function by small proteins. <i>Biochemical Society Transactions</i> , 2022, 50, 773-782.	3.4	4
3	Infrared light therapy relieves TLR-4 dependent hyper-inflammation of the type induced by COVID-19. <i>Communicative and Integrative Biology</i> , 2021, 14, 200-211.	1.4	8
4	Effect of temperature on the <i>Arabidopsis</i> cryptochrome photocycle. <i>Physiologia Plantarum</i> , 2021, 172, 1653-1661.	5.2	18
5	Therapeutic application of light and electromagnetic fields to reduce hyper-inflammation triggered by COVID-19. <i>Communicative and Integrative Biology</i> , 2021, 14, 66-77.	1.4	12
6	<i>Arabidopsis</i> cryptochrome and Quantum Biology: new insights for plant science and crop improvement. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2020, 29, 636-651.	1.7	10
7	<i>Arabidopsis</i> cryptochrome is responsive to Radiofrequency (RF) electromagnetic fields. <i>Scientific Reports</i> , 2020, 10, 11260.	3.3	19
8	Cryptochrome mediated magnetic sensitivity in <i>Arabidopsis</i> occurs independently of light-induced electron transfer to the flavin. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 341-352.	2.9	46
9	HEK293 cell response to static magnetic fields via the radical pair mechanism may explain therapeutic effects of pulsed electromagnetic fields. <i>PLoS ONE</i> , 2020, 15, e0243038.	2.5	20
10	Overexpression of AtWRKY30 Transcription Factor Enhances Heat and Drought Stress Tolerance in Wheat (<i>Triticum aestivum</i> L.). <i>Genes</i> , 2019, 10, 163.	2.4	126
11	Magnetic sensitivity mediated by the <i>Arabidopsis</i> blue-light receptor cryptochrome occurs during flavin reoxidation in the dark. <i>Planta</i> , 2019, 249, 319-332.	3.2	63
12	Genetic Variation and Alleviation of Salinity Stress in Barley (<i>Hordeum vulgare</i> L.). <i>Molecules</i> , 2018, 23, 2488.	3.8	55
13	Low-intensity electromagnetic fields induce human cryptochrome to modulate intracellular reactive oxygen species. <i>PLoS Biology</i> , 2018, 16, e2006229.	5.6	75
14	<i>Serratia liquefaciens</i> KM4 Improves Salt Stress Tolerance in Maize by Regulating Redox Potential, Ion Homeostasis, Leaf Gas Exchange and Stress-Related Gene Expression. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3310.	4.1	109
15	Analysis of the Genetic Diversity and Population Structure of Austrian and Belgian Wheat Germplasm within a Regional Context Based on DArT Markers. <i>Genes</i> , 2018, 9, 47.	2.4	26
16	Analysis of Genetic Variation and Enhancement of Salt Tolerance in French Pea (<i>Pisum Sativum</i> L.). <i>International Journal of Molecular Sciences</i> , 2018, 19, 2433.	4.1	45
17	Blue-light induced biosynthesis of ROS contributes to the signaling mechanism of <i>Arabidopsis</i> cryptochrome. <i>Scientific Reports</i> , 2017, 7, 13875.	3.3	91
18	Genetic Transformation and Hairy Root Induction Enhance the Antioxidant Potential of <i>Lactuca serriola</i> L.. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-8.	4.0	58

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19	Blue-light induced accumulation of reactive oxygen species is a consequence of the <i>Drosophila</i> cryptochrome photocycle. <i>PLoS ONE</i> , 2017, 12, e0171836.	2.5	38
20	The blue light-induced interaction of cryptochrome 1 with COP1 requires SPA proteins during <i>Arabidopsis</i> light signaling. <i>PLoS Genetics</i> , 2017, 13, e1007044.	3.5	51
21	The functional divergence between SPA1 and SPA2 in <i>Arabidopsis</i> photomorphogenesis maps primarily to the respective N-terminal kinase-like domain. <i>BMC Plant Biology</i> , 2016, 16, 165.	3.6	10
22	Kinetic Modeling of the <i>Arabidopsis</i> Cryptochrome Photocycle: FADHo Accumulation Correlates with Biological Activity. <i>Frontiers in Plant Science</i> , 2016, 7, 888.	3.6	20
23	Mutations in the N-terminal kinase-like domain of the repressor of photomorphogenesis <sc>SPA</sc> 1 severely impair <sc>SPA</sc> 1 function but not light responsiveness in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2016, 88, 205-218.	5.7	17
24	Light-dependent magnetoreception in birds: the crucial step occurs in the dark. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20151010.	3.4	61
25	Photocycle and signaling mechanisms of plant cryptochromes. <i>Current Opinion in Plant Biology</i> , 2016, 33, 108-115.	7.1	70
26	Blue-light dependent ROS formation by <i>Arabidopsis</i> cryptochrome-2 may contribute toward its signaling role. <i>Plant Signaling and Behavior</i> , 2015, 10, e1042647.	2.4	58
27	Blue-light dependent reactive oxygen species formation by <i>Arabidopsis</i> cryptochrome may define a novel evolutionarily conserved signaling mechanism. <i>New Phytologist</i> , 2015, 206, 1450-1462.	7.3	101
28	Cellular metabolites modulate in vivo signaling of <i>Arabidopsis</i> cryptochrome-1. <i>Plant Signaling and Behavior</i> , 2015, 10, e1063758.	2.4	40
29	Cellular Metabolites Enhance the Light Sensitivity of <i>Arabidopsis</i> Cryptochrome through Alternate Electron Transfer Pathways Å Å. <i>Plant Cell</i> , 2014, 26, 4519-4531.	6.6	58
30	Lifetimes of <i>Arabidopsis</i> cryptochrome signaling states <i>in vivo</i>. <i>Plant Journal</i> , 2013, 74, 583-592.	5.7	48
31	Magnetoreception: activated cryptochrome 1a concurs with magnetic orientation in birds. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130638.	3.4	91
32	Magnetically sensitive light-induced reactions in cryptochrome are consistent with its proposed role as a magnetoreceptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4774-4779.	7.1	290
33	Single Amino Acid Substitution Reveals Latent Photolyase Activity in <i>Arabidopsis</i> cry1. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9356-9360.	13.8	31
34	Human Cryptochrome-1 Confers Light Independent Biological Activity in Transgenic <i>Drosophila</i> Correlated with Flavin Radical Stability. <i>PLoS ONE</i> , 2012, 7, e31867.	2.5	25
35	Light-Induced Conformational Changes in Full-Length <i>Arabidopsis thaliana</i> Cryptochrome. <i>Journal of Molecular Biology</i> , 2011, 413, 128-137.	4.2	65
36	The Cryptochromes: Blue Light Photoreceptors in Plants and Animals. <i>Annual Review of Plant Biology</i> , 2011, 62, 335-364.	18.7	723

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37	Light-activated Cryptochrome Reacts with Molecular Oxygen to Form a Flavin-Superoxide Radical Pair Consistent with Magnetoreception. <i>Journal of Biological Chemistry</i> , 2011, 286, 21033-21040.	3.4	137
38	Photoreceptor-based magnetoreception: optimal design of receptor molecules, cells, and neuronal processing. <i>Journal of the Royal Society Interface</i> , 2010, 7, S135-46.	3.4	110
39	Cryptochrome. <i>Communicative and Integrative Biology</i> , 2010, 3, 24-27.	1.4	39
40	Cryptochrome Mediates Light-Dependent Magnetosensitivity of <i>Drosophila</i> 's Circadian Clock. <i>PLoS Biology</i> , 2009, 7, e1000086.	5.6	197
41	Conformational change induced by ATP binding correlates with enhanced biological function of <i>Arabidopsis</i> cryptochrome. <i>FEBS Letters</i> , 2009, 583, 1427-1433.	2.8	36
42	What Makes the Difference between a Cryptochrome and DNA Photolyase? A Spectroelectrochemical Comparison of the Flavin Redox Transitions. <i>Journal of the American Chemical Society</i> , 2009, 131, 426-427.	13.7	68
43	Multiple interactions between cryptochrome and phototropin blue-light signalling pathways in <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2008, 227, 1091-1099.	3.2	46
44	Evidence of a Light-Sensing Role for Folate in <i>Arabidopsis</i> Cryptochrome Blue-Light Receptors. <i>Molecular Plant</i> , 2008, 1, 68-74.	8.3	44
45	Human and <i>Drosophila</i> Cryptochromes Are Light Activated by Flavin Photoreduction in Living Cells. <i>PLoS Biology</i> , 2008, 6, e160.	5.6	136
46	The Signaling State of <i>Arabidopsis</i> Cryptochrome 2 Contains Flavin Semiquinone. <i>Journal of Biological Chemistry</i> , 2007, 282, 14916-14922.	3.4	227
47	Ethylene-induced <i>Arabidopsis</i> hypocotyl elongation is dependent on but not mediated by gibberellins. <i>Journal of Experimental Botany</i> , 2007, 58, 4269-4281.	4.8	64
48	Cryptochrome Blue Light Photoreceptors Are Activated through Interconversion of Flavin Redox States. <i>Journal of Biological Chemistry</i> , 2007, 282, 9383-9391.	3.4	349
49	HY5 is a point of convergence between cryptochrome and cytokinin signalling pathways in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2007, 49, 428-441.	5.7	172
50	Magnetic intensity affects cryptochrome-dependent responses in <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2007, 225, 615-624.	3.2	172
51	Blue-Light-Induced Changes in <i>Arabidopsis</i> Cryptochrome 1 Probed by FTIR Difference Spectroscopy. <i>Biochemistry</i> , 2006, 45, 2472-2479.	2.5	103
52	Heterologous Expression of Photoactivated Adenylyl Cyclase (PAC) Genes from the Flagellate <i>Euglena gracilis</i> in Insect Cells. <i>Photochemistry and Photobiology</i> , 2006, 82, 1601-1605.	2.5	11
53	Cryptochrome photoreceptors cry1 and cry2 antagonistically regulate primary root elongation in <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2006, 224, 995-1003.	3.2	105
54	Heterologous Expression of Photoactivated Adenylyl Cyclase (PAC) Genes from the Flagellate <i>Euglena gracilis</i> in Insect Cells. <i>Photochemistry and Photobiology</i> , 2006, 82, 1601.	2.5	6

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55	Light-induced Electron Transfer in Arabidopsis Cryptochrome-1 Correlates with in Vivo Function. <i>Journal of Biological Chemistry</i> , 2005, 280, 19437-19440.	3.4	138
56	Novel ATP-binding and autophosphorylation activity associated with Arabidopsis and human cryptochrome-1. <i>FEBS Journal</i> , 2003, 270, 2921-2928.	0.2	89
57	Light-induced electron transfer in a cryptochrome blue-light photoreceptor. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 489-490.	8.2	248
58	Action Spectrum for Cryptochrome-Dependent Hypocotyl Growth Inhibition in Arabidopsis. <i>Plant Physiology</i> , 2002, 129, 774-785.	4.8	188
59	Cryptochrome 1 controls tomato development in response to blue light. <i>Plant Journal</i> , 1999, 18, 551-556.	5.7	87
60	Seeing the world in red and blue: insight into plant vision and photoreceptors. <i>Current Opinion in Plant Biology</i> , 1999, 2, 230-235.	7.1	57
61	Cryptochrome blue-light photoreceptors of Arabidopsis implicated in phototropism. <i>Nature</i> , 1998, 392, 720-723.	27.8	168
62	The CRY1 Blue Light Photoreceptor of Arabidopsis Interacts with Phytochrome A In Vitro. <i>Molecular Cell</i> , 1998, 1, 939-948.	9.7	308
63	Chimeric Proteins between cry1 and cry2 Arabidopsis Blue Light Photoreceptors Indicate Overlapping Functions and Varying Protein Stability. <i>Plant Cell</i> , 1998, 10, 197-207.	6.6	158
64	Chimeric Proteins between cry1 and cry2 Arabidopsis Blue Light Photoreceptors Indicate Overlapping Functions and Varying Protein Stability. <i>Plant Cell</i> , 1998, 10, 197.	6.6	10
65	An enzyme similar to animal type II photolyases mediates photoreactivation in Arabidopsis.. <i>Plant Cell</i> , 1997, 9, 199-207.	6.6	128
66	An Enzyme Similar to Animal Type II Photolyases Mediates Photoreactivation in Arabidopsis. <i>Plant Cell</i> , 1997, 9, 199.	6.6	20
67	The blue-light receptor cryptochrome 1 shows functional dependence on phytochrome A or phytochrome B in Arabidopsis thaliana. <i>Plant Journal</i> , 1997, 11, 421-427.	5.7	191
68	Arabidopsis cryptochrome 1 is a soluble protein mediating blue light-dependent regulation of plant growth and development. <i>Plant Journal</i> , 1996, 10, 893-902.	5.7	220
69	The pef mutants of Arabidopsis thaliana define lesions early in the phytochrome signaling pathway. <i>Plant Journal</i> , 1996, 10, 1103-1110.	5.7	85
70	Seeing blue: the discovery of cryptochrome. <i>Plant Molecular Biology</i> , 1996, 30, 851-861.	3.9	153
71	Expression of an Arabidopsis cryptochrome gene in transgenic tobacco results in hypersensitivity to blue, UV-A, and green light.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 8423-8427.	7.1	189
72	Mutations throughout an Arabidopsis blue-light photoreceptor impair blue-light-responsive anthocyanin accumulation and inhibition of hypocotyl elongation. <i>Plant Journal</i> , 1995, 8, 653-658.	5.7	194

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73	Association of flavin adenine dinucleotide with the Arabidopsis blue light receptor CRY1. <i>Science</i> , 1995, 269, 968-970.	12.6	423
74	HY4 gene of <i>A. thaliana</i> encodes a protein with characteristics of a blue-light photoreceptor. <i>Nature</i> , 1993, 366, 162-166.	27.8	1,198
75	Topology of membrane insertion in vitro and plasma membrane assembly in vivo of the yeast arginine permease. <i>Molecular Microbiology</i> , 1988, 2, 627-635.	2.5	20
76	Yeast arginine permease: nucleotide sequence of the CAN1 gene. <i>Current Genetics</i> , 1986, 10, 587-592.	1.7	95