Heather M Whitney

List of Publications by Year
in descending order

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47 papers	2,911 citations	172207 29 h-index	233125 45 g-index
54 all docs	54 docs citations	54 times ranked	2765 citing authors

#	Article	IF	Citations
1	Floral Iridescence, Produced by Diffractive Optics, Acts As a Cue for Animal Pollinators. Science, 2009, 323, 130-133.	6.0	345
2	Detection and Learning of Floral Electric Fields by Bumblebees. Science, 2013, 340, 66-69.	6.0	218
3	Bees associate warmth with floral colour. Nature, 2006, 442, 525-525.	13.7	170
4	Conical Epidermal Cells Allow Bees to Grip Flowers and Increase Foraging Efficiency. Current Biology, 2009, 19, 948-953.	1.8	169
5	Structural colour and iridescence in plants: the poorly studied relations of pigment colour. Annals of Botany, 2010, 105, 505-511.	1.4	150
6	Why do so many petals have conical epidermal cells?. Annals of Botany, 2011, 108, 609-616.	1.4	147
7	Mutations perturbing petal cell shape and anthocyanin synthesis influence bumblebee perception of Antirrhinum majus flower colour. Arthropod-Plant Interactions, 2007, 1, 45-55.	0.5	116
8	Photonic multilayer structure of Begonia chloroplasts enhances photosynthetic efficiency. Nature Plants, 2016, 2, 16162.	4.7	108
9	Natural Helicoidal Structures: Morphology, Self-assembly and Optical Properties. Materials Today: Proceedings, 2014, 1, 177-185.	0.9	100
10	The interaction of temperature and sucrose concentration on foraging preferences in bumblebees. Die Naturwissenschaften, 2008, 95, 845-850.	0.6	86
11	Function of blue iridescence in tropical understorey plants. Journal of the Royal Society Interface, 2010, 7, 1699-1707.	1.5	86
12	Virus Infection of Plants Alters Pollinator Preference: A Payback for Susceptible Hosts?. PLoS Pathogens, 2016, 12, e1005790.	2.1	86
13	Light-induced dynamic structural color by intracellular 3D photonic crystals in brown algae. Science Advances, 2018, 4, eaan8917.	4.7	77
14	Functional nanomaterials to augment photosynthesis: evidence and considerations for their responsible use in agricultural applications. Interface Focus, 2019, 9, 20180048.	1.5	60
15	Floral Temperature and Optimal Foraging: Is Heat a Feasible Floral Reward for Pollinators?. PLoS ONE, 2008, 3, e2007.	1.1	59
16	The diversity of floral temperature patterns, and their use by pollinators. ELife, 2017, 6, .	2.8	58
17	Iridescence as Camouflage. Current Biology, 2020, 30, 551-555.e3.	1.8	54
18	Bumblebees Learn Polarization Patterns. Current Biology, 2014, 24, 1415-1420.	1.8	53

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19	Bumblebees distinguish floral scent patterns, and can transfer these to corresponding visual patterns. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180661.	1.2	51
20	Field Margins, Foraging Distances and Their Impacts on Nesting Pollinator Success. PLoS ONE, 2011, 6, e25971.	1.1	48
21	Biomechanics of plantâ€“insect interactions. Current Opinion in Plant Biology, 2013, 16, 105-111.	3.5	48
22	Colour as a backup for scent in the presence of olfactory noise: testing the efficacy backup hypothesis using bumblebees (Bombus terrestris). Royal Society Open Science, 2017, 4, 170996.	1.1	46
23	Flower Iridescence Increases Object Detection in the Insect Visual System without Compromising Object Identity. Current Biology, 2016, 26, 802-808.	1.8	43
24	Flower movement increases pollinator preference for flowers with better grip. Functional Ecology, 2012, 26, 941-947.	1.7	38
25	Reporting of thermography parameters in biology: a systematic review of thermal imaging literature. Royal Society Open Science, 2018, 5, 181281.	1.1	37
26	Effects of pollinator density-dependent preferences on field margin visitations in the midst of agricultural monocultures: A modelling approach. Ecological Modelling, 2010, 221, 1310-1316.	1.2	35
27	Floral epidermal structure and flower orientation: getting to grips with awkward flowers. Arthropod-Plant Interactions, 2011, 5, 279-285.	0.5	32
28	Photosynthesis and crop productivity are enhanced by glucoseâ€functionalised carbon dots. New Phytologist, 2021, 229, 783-790.	3.5	32
29	Morphology and development of floral features recognised by pollinators. Arthropod-Plant Interactions, 2007, 1, 147-158.	0.5	30
30	Determining the Contribution of Epidermal Cell Shape to Petal Wettability Using Isogenic Antirrhinum Lines. PLoS ONE, 2011, 6, e17576.	1.1	30
31	Contributions of iridescence to floral patterning. Communicative and Integrative Biology, 2009, 2, 230-232.	0.6	29
32	Surface functionalisation significantly changes the physical and electronic properties of carbon nano-dots. Nanoscale, 2018, 10, 13908-13912.	2.8	28
33	Grip and slip. Communicative and Integrative Biology, 2009, 2, 505-508.	0.6	25
34	Nectar discovery speeds and multimodal displays: assessing nectar search times in bees with radiating and non-radiating guides. Evolutionary Ecology, 2017, 31, 899-912.	0.5	24
35	Iridescence impairs object recognition in bumblebees. Scientific Reports, 2018, 8, 8095.	1.6	24
36	Floral Humidity in Flowering Plants: A Preliminary Survey. Frontiers in Plant Science, 2020, 11, 249.	1.7	19

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37	Cross-modal transfer in visual and nonvisual cues in bumblebees. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2019, 205, 427-437.	0.7	16
38	Floral temperature patterns can function as floral guides. Arthropod-Plant Interactions, 2020, 14, 193-206.	0.5	16
39	Bumblebees can detect floral humidity. Journal of Experimental Biology, 2021, 224, .	0.8	16
40	A Technique for Measuring Petal Gloss, with Examples from the Namaqualand Flora. PLoS ONE, 2012, 7, e29476.	1.1	15
41	THE CONTRIBUTION OF EPIDERMAL STRUCTURE TO FLOWER COLOUR IN THE SOUTH AFRICAN FLORA. Curtis's Botanical Magazine, 2011, 28, 349-371.	0.1	14
42	Characterization of chloroplast iridescence in Selaginella erythropus. Journal of the Royal Society Interface, 2018, 15, 20180559.	1.5	13
43	Structural colours in the frond of Microsorum thailandicum. Interface Focus, 2019, 9, 20180055.	1.5	9
44	Isolation and expression pattern of two putative acylâ€ACP desaturase cDNAs from Bassia scoparia. Journal of Experimental Botany, 2004, 55, 787-789.	2.4	8
45	Beetle iridescence induces an avoidance response in naÃ¨ve avian predators. Animal Behaviour, 2022, 188, 45-50.	0.8	4
46	The Godmother Protocols. Nature, 2006, 444, 970-970.	13.7	0
47	Unusual honey pot building behaviour in captively reared bumble bees Bombus terrestris. Journal of Apicultural Research, 2010, 49, 345-347.	0.7	0