Heather M Whitney

List of Publications by Year
in descending order

47	2,911	172207	233125
papers	citations	29 h-index	45 g-index

54	54	54	2765
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Beetle iridescence induces an avoidance response in naÃ¨ve avian predators. Animal Behaviour, 2022, 188, 45-50.	0.8	4
2	Photosynthesis and crop productivity are enhanced by glucoseâ€functionalised carbon dots. New Phytologist, 2021, 229, 783-790.	3.5	32
3	Bumblebees can detect floral humidity. Journal of Experimental Biology, 2021, 224, .	0.8	16
4	Floral temperature patterns can function as floral guides. Arthropod-Plant Interactions, 2020, 14, 193-206.	0.5	16
5	Floral Humidity in Flowering Plants: A Preliminary Survey. Frontiers in Plant Science, 2020, 11, 249.	1.7	19
6	Iridescence as Camouflage. Current Biology, 2020, 30, 551-555.e3.	1.8	54
7	Functional nanomaterials to augment photosynthesis: evidence and considerations for their responsible use in agricultural applications. Interface Focus, 2019, 9, 20180048.	1.5	60
8	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
9	Structural colours in the frond of Microsorum thailandicum. Interface Focus, 2019, 9, 20180055.	1.5	9
10	Light-induced dynamic structural color by intracellular 3D photonic crystals in brown algae. Science Advances, 2018, 4, eaan8917.	4.7	77
11	Characterization of chloroplast iridescence in Selaginella erythropus. Journal of the Royal Society Interface, 2018, 15, 20180559.	1.5	13
12	Iridescence impairs object recognition in bumblebees. Scientific Reports, 2018, 8, 8095.	1.6	24
13	Surface functionalisation significantly changes the physical and electronic properties of carbon nano-dots. Nanoscale, 2018, 10, 13908-13912.	2.8	28
14	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
15	Reporting of thermography parameters in biology: a systematic review of thermal imaging literature. Royal Society Open Science, 2018, 5, 181281.	1.1	37
16	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
17	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
18	The diversity of floral temperature patterns, and their use by pollinators. ELife, 2017, 6, .	2.8	58

#	Article	IF	Citations
19	Virus Infection of Plants Alters Pollinator Preference: A Payback for Susceptible Hosts?. PLoS Pathogens, 2016, 12, e1005790.	2.1	86
20	Flower Iridescence Increases Object Detection in the Insect Visual System without Compromising Object Identity. Current Biology, 2016, 26, 802-808.	1.8	43
21	Photonic multilayer structure of Begonia chloroplasts enhances photosynthetic efficiency. Nature Plants, 2016, 2, 16162.	4.7	108
22	Natural Helicoidal Structures: Morphology, Self-assembly and Optical Properties. Materials Today: Proceedings, 2014, 1, 177-185.	0.9	100
23	Bumblebees Learn Polarization Patterns. Current Biology, 2014, 24, 1415-1420.	1.8	53
24	Biomechanics of plantâ€“insect interactions. Current Opinion in Plant Biology, 2013, 16, 105-111.	3.5	48
25	Detection and Learning of Floral Electric Fields by Bumblebees. Science, 2013, 340, 66-69.	6.0	218
26	Flower movement increases pollinator preference for flowers with better grip. Functional Ecology, 2012, 26, 941-947.	1.7	38
27	A Technique for Measuring Petal Gloss, with Examples from the Namaqualand Flora. PLoS ONE, 2012, 7, e29476.	1.1	15
28	Determining the Contribution of Epidermal Cell Shape to Petal Wettability Using Isogenic Antirrhinum Lines. PLoS ONE, 2011, 6, e17576.	1.1	30
29	Field Margins, Foraging Distances and Their Impacts on Nesting Pollinator Success. PLoS ONE, 2011, 6, e25971.	1.1	48
30	THE CONTRIBUTION OF EPIDERMAL STRUCTURE TO FLOWER COLOUR IN THE SOUTH AFRICAN FLORA. Curtis's Botanical Magazine, 2011, 28, 349-371.	0.1	14
31	Floral epidermal structure and flower orientation: getting to grips with awkward flowers. Arthropod-Plant Interactions, 2011, 5, 279-285.	0.5	32
32	Why do so many petals have conical epidermal cells?. Annals of Botany, 2011, 108, 609-616.	1.4	147
33	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
34	Function of blue iridescence in tropical understorey plants. Journal of the Royal Society Interface, 2010, 7, 1699-1707.	1.5	86
35	Unusual honey pot building behaviour in captively reared bumble bees Bombus terrestris. Journal of Apicultural Research, 2010, 49, 345-347.	0.7	0
36	Structural colour and iridescence in plants: the poorly studied relations of pigment colour. Annals of Botany, 2010, 105, 505-511.	1.4	150

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37	Grip and slip. Communicative and Integrative Biology, 2009, 2, 505-508.	0.6	25
38	Contributions of iridescence to floral patterning. Communicative and Integrative Biology, 2009, 2, 230-232.	0.6	29
39	Conical Epidermal Cells Allow Bees to Grip Flowers and Increase Foraging Efficiency. Current Biology, 2009, 19, 948-953.	1.8	169
40	Floral Iridescence, Produced by Diffractive Optics, Acts As a Cue for Animal Pollinators. Science, 2009, 323, 130-133.	6.0	345
41	The interaction of temperature and sucrose concentration on foraging preferences in bumblebees. Die Naturwissenschaften, 2008, 95, 845-850.	0.6	86
42	Floral Temperature and Optimal Foraging: Is Heat a Feasible Floral Reward for Pollinators?. PLoS ONE, 2008, 3, e2007.	1.1	59
43	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
44	Morphology and development of floral features recognised by pollinators. Arthropod-Plant Interactions, 2007, 1, 147-158.	0.5	30
45	Bees associate warmth with floral colour. Nature, 2006, 442, 525-525.	13.7	170
46	The Godmother Protocols. Nature, 2006, 444, 970-970.	13.7	0
47	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