Florian P Schiestl

List of Publications by Year
in descending order

116	9,257	34105	43889
papers	citations	52 h-index	91 g-index

121	121	121	5264
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pollinator-mediated evolution of floral signals. Trends in Ecology and Evolution, 2013, 28, 307-315.	8.7	504
2	Orchid pollination by sexual swindle. Nature, 1999, 399, 421-421.	27.8	398
3	The evolution of floral scent and insect chemical communication. Ecology Letters, 2010, 13, 643-656.	6.4	365
4	Production of plant growth modulating volatiles is widespread among rhizosphere bacteria and strongly depends on culture conditions. Environmental Microbiology, 2011, 13, 3047-3058.	3.8	343
5	The evolution of floral scent: the influence of olfactory learning by insect pollinators on the honest signalling of floral rewards. Functional Ecology, 2009, 23, 841-851.	3.6	306
6	On the success of a swindle: pollination by deception in orchids. Die Naturwissenschaften, 2005, 92, 255-264.	1.6	303
7	The Chemistry of Sexual Deception in an Orchid-Wasp Pollination System. Science, 2003, 302, 437-438.	12.6	298
8	Real-time divergent evolution in plants driven by pollinators. Nature Communications, 2017, 8, 14691.	12.8	217
9	Pollinator attraction in a sexually deceptive orchid by means of unconventional chemicals. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 517-522.	2.6	215
10	Floral Isolation, Specialized Pollination, and Pollinator Behavior in Orchids. Annual Review of Entomology, 2009, 54, 425-446.	11.8	206
11	EVOLUTION OF REPRODUCTIVE STRATEGIES IN THE SEXUALLY DECEPTIVE ORCHID OPHRYS SPHEGODES: HOW DOES FLOWER-SPECIFIC VARIATION OF ODOR SIGNALS INFLUENCE REPRODUCTIVE SUCCESS?. Evolution; International Journal of Organic Evolution, 2000, 54, 1995-2006.	2.3	191
12	Pollinator specificity, floral odour chemistry and the phylogeny of Australian sexually deceptiveChiloglottisorchids: implications for pollinatorâ€driven speciation. New Phytologist, 2010, 188, 437-450.	7.3	188
13	The role of volatiles in plant communication. Plant Journal, 2019, 100, 892-907.	5.7	180
14	Floral scent emission and pollinator attraction in two species of Gymnadenia (Orchidaceae). Oecologia, 2005, 142, 564-575.	2.0	168
15	Bees use honest floral signals as indicators of reward when visiting flowers. Ecology Letters, 2015, 18, 135-143.	6.4	165
16	Sex pheromone mimicry in the early spider orchid (Ophrys sphegodes): patterns of hydrocarbons as the key mechanism for pollination by sexual deception. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2000, 186, 567-574.	1.6	164
17	Ecology and evolution of floral volatileâ€mediated information transfer in plants. New Phytologist, 2015, 206, 571-577.	7.3	150
18	DOES SELECTION ON FLORAL ODOR PROMOTE DIFFERENTIATION AMONG POPULATIONS AND SPECIES OF THE SEXUALLY DECEPTIVE ORCHID GENUS OPHRYS?. Evolution; International Journal of Organic Evolution, 2005, 59, 1449-1463.	2.3	140

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19	Herbivory and floral signaling: phenotypic plasticity and tradeoffs between reproduction and indirect defense. New Phytologist, 2014, 203, 257-266.	7.3	139
20	Post-pollination emission of a repellent compound in a sexually deceptive orchid: a new mechanism for maximising reproductive success?. Oecologia, 2001, 126, 531-534.	2.0	136
21	Rapid plant evolution driven by the interaction of pollination and herbivory. Science, 2019, 364, 193-196.	12.6	122
22	Do changes in floral odor cause speciation in sexually deceptive orchids?. Plant Systematics and Evolution, 2002, 234, 111-119.	0.9	120
23	Floral odour and reproductive isolation in two species of Silene. Journal of Evolutionary Biology, 2008, 21, 111-121.	1.7	119
24	Variation of Floral Scent Emission and Postpollination Changes in Individual Flowers of Ophrys sphegodes Subsp. sphegodes. Journal of Chemical Ecology, 1997, 23, 2881-2895.	1.8	118
25	THE EVOLUTION OF FLORAL SCENT AND OLFACTORY PREFERENCES IN POLLINATORS: COEVOLUTION OR PRE-EXISTING BIAS?. Evolution; International Journal of Organic Evolution, 2012, 66, 2042-2055.	2.3	115
26	Cuticular Hydrocarbons as Sex Pheromone of the Bee Colletes cunicularius and the Key to its Mimicry by the Sexually Deceptive Orchid, Ophrys exaltata. Journal of Chemical Ecology, 2005, 31, 1765-1787.	1.8	113
27	FLORAL ISOLATION IS THE MAIN REPRODUCTIVE BARRIER AMONG CLOSELY RELATED SEXUALLY DECEPTIVE ORCHIDS. Evolution; International Journal of Organic Evolution, 2011, 65, 2606-2620.	2.3	112
28	Covariation and phenotypic integration in chemical communication displays: biosynthetic constraints and ecoâ€evolutionary implications. New Phytologist, 2018, 220, 739-749.	7.3	101
29	A PHYLOGENETIC STUDY OF POLLINATOR CONSERVATISM AMONG SEXUALLY DECEPTIVE ORCHIDS. Evolution; International Journal of Organic Evolution, 2002, 56, 888-898.	2.3	92
30	The evolution of imperfect floral mimicry. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7484-7488.	7.1	91
31	Pollination Efficiency and the Evolution of Specialized Deceptive Pollination Systems. American Naturalist, 2010, 175, 98-105.	2.1	91
32	Phenotypic selection on floral scent: trade-off between attraction and deterrence?. Evolutionary Ecology, 2011, 25, 237-248.	1.2	90
33	Variability in Floral Scent in Rewarding and Deceptive Orchids: The Signature of Pollinator-imposed Selection?. Annals of Botany, 2007, 100, 757-765.	2.9	89
34	Evidence for pollinator sharing in Mediterranean nectar-mimic orchids: absence of premating barriers?. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 1271-1278.	2.6	88
35	Evolution of sexual mimicry in the orchid subtribe orchidinae: the role of preadaptations in the attraction of male bees as pollinators. BMC Evolutionary Biology, 2008, 8, 27.	3.2	88
36	Hybrid floral scent novelty drives pollinator shift in sexually deceptive orchids. BMC Evolutionary Biology, 2010, 10, 103.	3.2	86

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37	Stearoyl-acyl carrier protein desaturases are associated with floral isolation in sexually deceptive orchids. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5696-5701.	7.1	84
38	Floral adaptation to local pollinator guilds in a terrestrial orchid. Annals of Botany, 2014, 113, 289-300.	2.9	77
39	How an orchid harms its pollinator. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 1529-1532.	2.6	75
40	Post-mating odor in females of the solitary bee, Andrena nigroaenea (Apoidea, Andrenidae), inhibits male mating behavior. Behavioral Ecology and Sociobiology, 2000, 48, 303-307.	1.4	70
41	Odor compound detection in male euglossine bees. Journal of Chemical Ecology, 2003, 29, 253-257.	1.8	70
42	The discovery of 2,5-dialkylcyclohexan-1,3-diones as a new class of natural products. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8877-8882.	7.1	70
43	Pollinator convergence and the nature of species' boundaries in sympatric Sardinian Ophrys (Orchidaceae). Annals of Botany, 2009, 104, 497-506.	2.9	70
44	On the roles of colour and scent in a specialized floral mimicry system. Annals of Botany, 2009, 104, 1077-1084.	2.9	67
45	The Sexual Advantage of Looking, Smelling, and Tasting Good: The Metabolic Network that Produces Signals for Pollinators. Trends in Plant Science, 2017, 22, 338-350.	8.8	67
46	Why Do Floral Perfumes Become Different? Region-Specific Selection on Floral Scent in a Terrestrial Orchid. PLoS ONE, 2016, 11, e0147975.	2.5	67
47	Heritability of floral volatiles and pleiotropic responses to artificial selection in Brassica rapa. New Phytologist, 2016, 209, 1208-1219.	7.3	66
48	Evolution of â€˜pollinatorâ€™- attracting signals in fungi. Biology Letters, 2006, 2, 401-404.	2.3	65
49	EVOLUTION OF REPRODUCTIVE STRATEGIES IN THE SEXUALLY DECEPTIVE ORCHID OPHRYS SPHEGODES: HOW DOES FLOWER-SPECIFIC VARIATION OF ODOR SIGNALS INFLUENCE REPRODUCTIVE SUCCESS?. Evolution; International Journal of Organic Evolution, 2000, 54, 1995.	2.3	63
50	Floral Scent in Foodâ€Deceptive Orchids: Species Specificity and Sources of Variability. Plant Biology, 2007, 9, 720-729.	3.8	62
51	Molecular mechanisms of floral mimicry in orchids. Trends in Plant Science, 2008, 13, 228-235.	8.8	60
52	How to be an attractive male: floral dimorphism and attractiveness to pollinators in a dioecious plant. BMC Evolutionary Biology, 2009, 9, 190.	3.2	58
53	Monoterpenes and Epicuticular Waxes Help Female Autumn Gum Moth Differentiate Between Waxy and Glossy Eucalyptus and Leaves of Different Ages. Journal of Chemical Ecology, 2004, 30, 1117-1142.	1.8	56
54	Postpollination Changes in Floral Odor in Silene latifolia: Adaptive Mechanisms for Seed-Predator Avoidance?. Journal of Chemical Ecology, 2006, 32, 1855-1860.	1.8	56

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55	Alien interference: disruption of infochemical networks by invasive insect herbivores. Plant, Cell and Environment, 2014, 37, 1854-1865.	5.7	55
56	Population differentiation in female sex pheromone and male preferences in a solitary bee. Behavioral Ecology and Sociobiology, 2007, 61, 811-821.	1.4	54
57	The effect of pollinators and herbivores on selection for floral signals: a case study in Brassica rapa. Evolutionary Ecology, 2017, 31, 285-304.	1.2	54
58	Genic rather than genomeâ€wide differences between sexually deceptive <scp>O</scp>phrys orchids with different pollinators. Molecular Ecology, 2014, 23, 6192-6205.	3.9	52
59	Odour and colour polymorphism in the food-deceptive orchid Dactylorhiza romana. Plant Systematics and Evolution, 2007, 267, 37-45.	0.9	51
60	Integrating past and present studies on Ophrys pollination - a comment on Bradshaw etâ€ƒal.. Botanical Journal of the Linnean Society, 2011, 165, 329-335.	1.6	48
61	The Genetic Basis of Pollinator Adaptation in a Sexually Deceptive Orchid. PLoS Genetics, 2012, 8, e1002889.	3.5	46
62	Transcriptome and Proteome Data Reveal Candidate Genes for Pollinator Attraction in Sexually Deceptive Orchids. PLoS ONE, 2013, 8, e64621.	2.5	46
63	Floral evolution and pollinator mate choice in a sexually deceptive orchid. Journal of Evolutionary Biology, 2003, 17, 67-75.	1.7	45
64	Chemical communication in the sexually deceptive orchid genus Cryptostylis. Botanical Journal of the Linnean Society, 2004, 144, 199-205.	1.6	45
65	Emergence of a floral colour polymorphism by pollinator-mediated overdominance. Nature Communications, 2019, 10, 63.	12.8	45
66	Role of odour compounds in the attraction of gamete vectors in endophytic EpichloÃ« fungi. New Phytologist, 2008, 178, 401-411.	7.3	44
67	Are tetraploids more successful? Floral signals, reproductive success and floral isolation in mixed-ploidy populations of a terrestrial orchid. Annals of Botany, 2015, 115, 263-273.	2.9	44
68	Does selection on floral odor promote differentiation among populations and species of the sexually deceptive orchid genus Ophrys?. Evolution; International Journal of Organic Evolution, 2005, 59, 1449-63.	2.3	44
69	Pollinator-Driven Speciation in Sexually Deceptive Orchids. International Journal of Ecology, 2012, 2012, 1-9.	0.8	42
70	Floral volatiles interfere with plant attraction of parasitoids: ontogeny-dependent infochemical dynamics in Brassica rapa. BMC Ecology, 2015, 15, 17.	3.0	41
71	Minority cytotypes in European populations of the Gymnadenia conopsea complex (Orchidaceae) greatly increase intraspecific and intrapopulation diversity. Annals of Botany, 2012, 110, 977-986.	2.9	39
72	A mark-recapture study of male Colletes cunicularius bees: implications for pollination by sexual deception. Behavioral Ecology and Sociobiology, 2004, 56, 579-584.	1.4	37

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73	Floral isolation is the major reproductive barrier between a pair of rewarding orchid sister species. Journal of Evolutionary Biology, 2015, 28, 117-129.	1.7	37
74	Pollinator shifts between <scp>O</scp>phrys sphegodes populations: might adaptation to different pollinators drive population divergence?. Journal of Evolutionary Biology, 2013, 26, 2197-2208.	1.7	36
75	Ecological role of volatiles produced by EpichloÃƒÂ«: differences in antifungal toxicity. FEMS Microbiology Ecology, 2008, 64, 307-316.	2.7	34
76	Herbivory Increases Fruit Set in Silene latifolia: A Consequence of Induced Pollinator-Attracting Floral Volatiles?. Journal of Chemical Ecology, 2015, 41, 622-630.	1.8	34
77	Herbivore-Induced DNA Demethylation Changes Floral Signalling and Attractiveness to Pollinators in Brassica rapa. PLoS ONE, 2016, 11, e0166646.	2.5	33
78	The effects of becoming taller: direct and pleiotropic effects of artificial selection on plant height in Brassica rapa. Plant Journal, 2017, 89, 1009-1019.	5.7	31
79	Crab spiders impact floral-signal evolution indirectly through removal of florivores. Nature Communications, 2018, 9, 1367.	12.8	30
80	The promise of genomics in the study of plant-pollinator interactions. Genome Biology, 2013, 14, 207.	8.8	29
81	Eugenol synthase genes in floral scent variation in Gymnadenia species. Functional and Integrative Genomics, 2014, 14, 779-788.	3.5	28
82	Specific ant-pollination in an alpine orchid and the role of floral scent in attracting pollinating ants. Alpine Botany, 2012, 122, 1-9.	2.4	26
83	Floral Odor Variation in Two Heterostylous Species of Primula. Journal of Chemical Ecology, 2005, 31, 1223-1228.	1.8	23
84	Floral Scent Emission and Pollination Syndromes: Evolutionary Changes from Food to Sexual Deception. International Journal of Plant Sciences, 2006, 167, 1197-1204.	1.3	22
85	Pollinator attractiveness increases with distance from flowering orchids. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, S212-4.	2.6	21
86	Realâ€¢time evolution supports a unique trajectory for generalized pollination*. Evolution; International Journal of Organic Evolution, 2018, 72, 2653-2668.	2.3	21
87	Variation of Insect Attracting Odor in Endophytic EpichloÃ« Fungi: Phylogenetic Constrains Versus Host Influence. Journal of Chemical Ecology, 2008, 34, 772-782.	1.8	20
88	Identification of white campion (Silene latifolia) guaiacol O-methyltransferase involved in the biosynthesis of veratrole, a key volatile for pollinator attraction. BMC Plant Biology, 2012, 12, 158.	3.6	20
89	Innate Receiver Bias: Its Role in the Ecology and Evolution of Plantâ€“Animal Interactions. Annual Review of Ecology, Evolution, and Systematics, 2017, 48, 585-603.	8.3	19
90	Floral scent and species divergence in a pair of sexually deceptive orchids. Ecology and Evolution, 2017, 7, 6023-6034.	1.9	19

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91	Pollen transfer efficiency and its effect on inflorescence size in deceptive pollination strategies. Plant Biology, 2015, 17, 545-550.	3.8	17
92	The molecular bases of floral scent evolution under artificial selection: insights from a transcriptome analysis in Brassica rapa. Scientific Reports, 2016, 6, 36966.	3.3	17
93	Floral Odors Can Interfere With the Foraging Behavior of Parasitoids Searching for Hosts. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	17
94	Trans-generational inheritance of herbivory-induced phenotypic changes in Brassica rapa. Scientific Reports, 2018, 8, 3536.	3.3	15
95	Do Flower Color and Floral Scent of Silene Species affect Host Preference of Hadena bicruris, a Seed-Eating Pollinator, under Field Conditions?. PLoS ONE, 2014, 9, e98755.	2.5	15
96	Correlation analyses between volatiles and glucosinolates show no evidence for chemical defense signaling in Brassica rapa. Frontiers in Ecology and Evolution, 2014, 2, .	2.2	14
97	Evolution of Floral Fragrance Is Compromised by Herbivory. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	14
98	Pollinator attraction in Anacamptis papilionacea (Orchidaceae): a food or a sex promise?. Plant Species Biology, 2009, 24, 109-114.	1.0	13
99	Floral evolution as a figment of the imagination of pollinators. Trends in Ecology and Evolution, 2010, 25, 382-383.	8.7	12
100	Pollination: Sexual Mimicry Abounds. Current Biology, 2010, 20, R1020-R1022.	3.9	10
101	Chemical analysis of incense smokes used in Shaxi, Southwest China: A novel methodological approach in ethnobotany. Journal of Ethnopharmacology, 2011, 138, 212-218.	4.1	9
102	Herbivory affects male and female reproductive success differently in dioecious Silene latifolia. Entomologia Experimentalis Et Applicata, 2015, 157, 60-67.	1.4	9
103	Combining biotechnology and evolution for understanding the mechanisms of pollinator attraction. Current Opinion in Biotechnology, 2021, 70, 213-219.	6.6	9
104	Identification, synthesis and activity of sex pheromone gland components of the autumn gum moth (Lepidoptera: Geometridae), a defoliator of Eucalyptus. Chemoecology, 2004, 14, 217.	1.1	8
105	Pollinator behaviour and resource limitation maintain honest floral signalling. Functional Ecology, 2021, 35, 2536-2549.	3.6	8
106	DOES SELECTION ON FLORAL ODOR PROMOTE DIFFERENTIATION AMONG POPULATIONS AND SPECIES OF THE SEXUALLY DECEPTIVE ORCHID GENUS OPHRYS?. Evolution; International Journal of Organic Evolution, 2005, 59, 1449.	2.3	7
107	Herbivory and pollination impact on the evolution of herbivoreâ€induced plasticity in defense and floral traits. Evolution Letters, 2020, 4, 556-569.	3.3	6
108	Floral signals evolve in a predictable way under artificial and pollinator selection in Brassica rapa. BMC Evolutionary Biology, 2020, 20, 127.	3.2	5

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109	A PHYLOGENETIC STUDY OF POLLINATOR CONSERVATISM AMONG SEXUALLY DECEPTIVE ORCHIDS. Evolution; International Journal of Organic Evolution, 2002, 56, 888.	2.3	4
110	Do floral and ecogeographic isolation allow the coâ€occurrence of two ecotypes ofAnacamptis papilionacea(Orchidaceae)?. Ecology and Evolution, 2021, 11, 9917-9931.	1.9	4
111	Generalized olfactory detection of floral volatiles in the highly specialized Greya-Lithophragma nursery pollination system. Arthropod-Plant Interactions, 2021, 15, 209-221.	1.1	3
112	Hyperbolic odorant mixtures as a basis for more efficient signaling between flowering plants and bees. PLoS ONE, 2022, 17, e0270358.	2.5	3
113	Animal pollination and speciation in plants: general mechanisms and examples from the orchids. , 2011, , 263-278.		2
114	Continuum Between Ritual and Medicinal Use of Plants: Smoke Analysis of Ritual Plants from Southwest China. Chimia, 2011, 65, 438.	0.6	1
115	How to get the best deal. ELife, 2015, 4, .	6.0	1
116	Chemical and Functional Complexity in Flower Fragrance. Chimia, 2020, 74, 820.	0.6	1