Carl D Schlichting

List of Publications by Year
in descending order

70 papers	8,780 citations	76326 40 h-index	95266 68 g-index
74 all docs	74 docs citations	74 times ranked	7788 citing authors

#	Article	IF	Citations
1	Adaptive phenotypic plasticity: consensus and controversy. Trends in Ecology and Evolution, 1995, 10, 212-217.	8.7	1,193
2	The Evolution of Phenotypic Plasticity in Plants. Annual Review of Ecology, Evolution, and Systematics, 1986, 17, 667-693.	6.7	1,187
3	Phenotypic plasticity's impacts on diversification and speciation. Trends in Ecology and Evolution, 2010, 25, 459-467.	8.7	961
4	Phenotypic plasticity and evolution by genetic assimilation. Journal of Experimental Biology, 2006, 209, 2362-2367.	1.7	806
5	Constraints on the evolution of phenotypic plasticity: limits and costs of phenotype and plasticity. Heredity, 2015, 115, 293-301.	2.6	469
6	Phenotypic plasticity: linking molecular mechanisms with evolutionary outcomes. Evolutionary Ecology, 2002, 16, 189-211.	1.2	312
7	Phenotypic Integration and Environmental Change. BioScience, 1989, 39, 460-464.	4.9	273
8	Hidden Reaction Norms, Cryptic Genetic Variation, and Evolvability. Annals of the New York Academy of Sciences, 2008, 1133, 187-203.	3.8	224
9	PHENOTYPIC PLASTICITY AND EPIGENETIC MARKING: AN ASSESSMENT OF EVIDENCE FOR GENETIC ACCOMMODATION. Evolution; International Journal of Organic Evolution, 2014, 68, 656-672.	2.3	214
10	Control of Phenotypic Plasticity Via Regulatory Genes. American Naturalist, 1993, 142, 366-370.	2.1	205
11	Gene regulation, quantitative genetics and the evolution of reaction norms. Evolutionary Ecology, 1995, 9, 154-168.	1.2	192
12	Emergence of a new neotropical malaria vector facilitated by human migration and changes in land use.. American Journal of Tropical Medicine and Hygiene, 2002, 66, 18-22.	1.4	157
13	Phenotypic plasticity: an evolving plant character. Biological Journal of the Linnean Society, 1986, 29, 37-47.	1.6	154
14	Phenotypic plasticity in Phlox. Oecologia, 1989, 78, 496-501.	2.0	134
15	PHENOTYPIC PLASTICITY OF ANNUAL PHLOX: TESTS OF SOME HYPOTHESES. American Journal of Botany, 1984, 71, 252-260.	1.7	130
16	Reaction norms of Arabidopsis. I. Plasticity of characters and correlations across water, nutrient and light gradients. Journal of Evolutionary Biology, 1995, 8, 421-438.	1.7	122
17	Evolutionary Change in Continuous Reaction Norms. American Naturalist, 2014, 183, 453-467.	2.1	114
18	Developmental phenotypic plasticity: Where ecology and evolution meet molecular biology. BioEssays, 1997, 19, 519-525.	2.5	104

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19	Leaf shape linked to photosynthetic rates and temperature optima in South African Pelargonium species. Oecologia, 2008, 154, 625-635.	2.0	91
20	POLLEN LOADS AND PROGENY VIGOR IN CUCURBITA PEPO : THE NEXT GENERATION. Evolution; International Journal of Organic Evolution, 1990, 44, 1358-1372.	2.3	88
21	Malaria Vectors, Epidemiology, and the Re-Emergence ofAnopheles darlingiin BelÃ©m, ParÃ¡, Brazil. Journal of Medical Entomology, 2003, 40, 379-386.	1.8	76
22	The importance of Anopheles albitarsis E and An. darlingi in human malaria transmission in Boa Vista, state of Roraima, Brazil. Memorias Do Instituto Oswaldo Cruz, 2006, 101, 163-168.	1.6	73
23	Ontogenetic Reaction Norms in Lobelia Siphilitica (Lobeliaceae): Response to Shading. Ecology, 1995, 76, 2134-2144.	3.2	67
24	Reaction Norms of Arabidopsis. II. Response to Stress and Unordered Environmental Variation. Functional Ecology, 1995, 9, 537.	3.6	65
25	Reaction norms of Arabidopsis. IV. Relationships between plasticity and fitness. Heredity, 1996, 76, 427-436.	2.6	62
26	Phenotypic Plasticity of Growth Trajectories in Two Species of Lobelia in Response to Nutrient Availability. Journal of Ecology, 1997, 85, 265.	4.0	60
27	Developmental Reaction Norms: the Interactions among Allometry, Ontogeny and Plasticity. Plant Species Biology, 1996, 11, 69-85.	1.0	59
28	Origins of differentiation via phenotypic plasticity. Evolution & Development, 2003, 5, 98-105.	2.0	59
29	Phenotypic plasticity in Phlox. III. Variation among natural populations of P. drummondii. Journal of Evolutionary Biology, 1990, 3, 411-428.	1.7	58
30	Patterns of genotypic variation and phenotypic plasticity of light response in two tropical Piper (Piperaceae) species. American Journal of Botany, 1997, 84, 1542-1552.	1.7	56
31	R eaction norms of A rabidopsis (Brassicaceae). III. R esponse to nutrients in 26 populations from a worldwide collection. American Journal of Botany, 1995, 82, 1117-1125.	1.7	54
32	Adaptive phenotypic plasticity for life-history and less fitness-related traits. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190653.	2.6	54
33	Evolution in Changing Environments: The "Synthetic" Work of Clausen, Keck, and Hiesey. Quarterly Review of Biology, 2001, 76, 433-457.	0.1	52
34	Phenotypic Plasticity of Annual Phlox: Tests of Some Hypotheses. American Journal of Botany, 1984, 71, 252.	1.7	52
35	LEAF SHAPE EVOLUTION IN THE SOUTH AFRICAN GENUSPELARGONIUMLâ€™ HÃ‰R. (GERANIACEAE). Evolution; International Journal of Organic Evolution, 2009, 63, 479-497.	2.3	51
36	Reaction norms of. Journal of Evolutionary Biology, 1998, 11, 285.	1.7	50

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37	Male and Female Reproductive Success in the Hermaphroditic Plant Phlox drummondii. American Naturalist, 1989, 133, 212-227.	2.1	48
38	On the Limits of Quantitative Genetics for the Study of Phenotypic Evolution. Acta Biotheoretica, 1997, 45, 143-160.	1.5	47
39	Editorial: Phenotypic plasticity in plants. Plant Species Biology, 2002, 17, 85-88.	1.0	44
40	Effects of inbreeding on phenotypic plasticity in cultivated Phlox. Theoretical and Applied Genetics, 1986, 72, 114-119.	3.6	42
41	Reaction norms ofArabidopsis. V. Flowering time controls phenotypic architecture in response to nutrient stress. Journal of Evolutionary Biology, 1998, 11, 285-301.	1.7	39
42	Geographic variation and plasticity to water and nutrients in Pelargonium australe. New Phytologist, 2007, 176, 136-149.	7.3	39
43	Spatial autocorrelation inflates niche breadthâ€“range size relationships. Global Ecology and Biogeography, 2018, 27, 1426-1436.	5.8	36
44	Decreasing proportion of Anopheles darlingi biting outdoors between long-lasting insecticidal net distributions in peri-Iquitos, Amazonian Peru. Malaria Journal, 2018, 17, 86.	2.3	32
45	Functional Traits in Parallel Evolutionary Radiations and Trait-Environment Associations in the Cape Floristic Region of South Africa. American Naturalist, 2015, 185, 525-537.	2.1	28
46	PHENOTYPIC PLASTICITY IN PHLOX. I. WILD AND CULTIVATED POPULATIONS OF P. DRUMMONDII. American Journal of Botany, 1988, 75, 161-169.	1.7	26
47	Reaction Norms of Arabidopsis (Brassicaceae). III. Response to Nutrients in 26 Populations from a Worldwide Collection. American Journal of Botany, 1995, 82, 1117.	1.7	26
48	POLLEN AND OVULE SOURCES AFFECT SEED PRODUCTION OF LOBELIA CARDINALIS (LOBELIACE AE). American Journal of Botany, 1992, 79, 891-898.	1.7	24
49	Phylogenetic influences on leaf trait integration in Pelargonium (Geraniaceae): Convergence, divergence, and historical adaptation to a rapidly changing climate. American Journal of Botany, 2013, 100, 1306-1321.	1.7	24
50	Influence of predator-prey evolutionary history, chemical alarm-cues, and feeding selection on induction of toxin production in a marine dinoflagellate. Limnology and Oceanography, 2015, 60, 318-328.	3.1	24
51	Lost in Phenotypic Space: Environment-Dependent Morphology in Phlox drummondii (Polemoniaceae). International Journal of Plant Sciences, 1995, 156, 542-546.	1.3	24
52	Low levels of climate niche conservatism may explain clade diversity patterns in the South African genusPelargonium(Geraniaceae). American Journal of Botany, 2012, 99, 954-960.	1.7	21
53	Regional variation in life history traits and plastic responses to temperature of the major malaria vector Nyssorhynchus darlingi in Brazil. Scientific Reports, 2019, 9, 5356.	3.3	20
54	Ecological Suitability and Spatial Distribution of Five Anopheles Species in Amazonian Brazil. American Journal of Tropical Medicine and Hygiene, 2013, 88, 1079-1086.	1.4	19

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55	Plastome based phylogenetics and younger crown node age in Pelargonium. Molecular Phylogenetics and Evolution, 2019, 137, 33-43.	2.7	19
56	Deciphering Hybrid Larch Reaction Norms Using Random Regression. G3: Genes, Genomes, Genetics, 2019, 9, 21-32.	1.8	18
57	Pollen and Ovule Sources Affect Seed Production of Lobelia cardinalis (Lobeliaceae). American Journal of Botany, 1992, 79, 891.	1.7	17
58	Measuring microenvironments for global change: DIY environmental microcontroller units (EMUs). Methods in Ecology and Evolution, 2019, 10, 578-584.	5.2	16
59	Impact of rainfall seasonality on intraspecific trait variation in a shrub from a Mediterranean climate. Functional Ecology, 2020, 34, 865-876.	3.6	16
60	Coarseâ€versus fineâ€grained water stress in Arabidopsis thaliana (Brassicaceae). American Journal of Botany, 2005, 92, 101-106.	1.7	12
61	Mutational effects on constraints on character evolution and phenotypic plasticity inArabidopsis thaliana. Journal of Genetics, 1998, 77, 95-103.	0.7	10
62	Phenotypic Plasticity in Phlox. I. Wild and Cultivated Populations of P. drummondii. American Journal of Botany, 1988, 75, 161.	1.7	9
63	Divergent trait and environment relationships among parallel radiations in Pelargonium (Geraniaceae): a role for evolutionary legacy?. New Phytologist, 2018, 219, 794-807.	7.3	8
64	Herbarium records demonstrate changes in flowering phenology associated with climate change over the past century within the Cape Floristic Region, South Africa. Climate Change Ecology, 2021, 1, 100006.	1.9	6
65	A field experiment to determine the effect of dry-season irrigation on vegetative and reproductive traits in the wet-deciduous tree Bonellia nervosa. Journal of Tropical Ecology, 2020, 36, 29-35.	1.1	3
66	The Families of the Monocotyledons.. Brittonia, 1985, 37, 231.	0.2	1
67	Leaf margins in a deciduous lineage from the Greater Cape Floristic Region track climate in unexpected directions. American Journal of Botany, 2020, 107, 735-748.	1.7	1
68	Evidence for family-level variation of phenotypic traits in response to temperature of Brazilian Nyssorhynchus darlingi. Parasites and Vectors, 2020, 13, 55.	2.5	1
69	A new sectional classification of Lachenalia (Asparagaceae) based on a multilocus <scp>DNA</scp> phylogeny. Taxon, 0, , .	0.7	1
70	Environment rules. Trends in Ecology and Evolution, 2003, 18, 496-497.	8.7	0