

# David W Pfennig

## List of Publications by Year in descending order

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130  
papers

9,598  
citations

34016

52  
h-index

42291

92  
g-index

150  
all docs

150  
docs citations

150  
times ranked

7484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenotypic plasticity's impacts on diversification and speciation. <i>Trends in Ecology and Evolution</i> , 2010, 25, 459-467.	4.2	961
2	Constraints on the evolution of phenotypic plasticity: limits and costs of phenotype and plasticity. <i>Heredity</i> , 2015, 115, 293-301.	1.2	469
3	The role of developmental plasticity in evolutionary innovation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2705-2713.	1.2	432
4	Evaluating "Plasticity-First" Evolution in Nature: Key Criteria and Empirical Approaches. <i>Trends in Ecology and Evolution</i> , 2016, 31, 563-574.	4.2	364
5	Character Displacement: Ecological And Reproductive Responses To A Common Evolutionary Problem. <i>Quarterly Review of Biology</i> , 2009, 84, 253-276.	0.0	355
6	Inclusive fitness theory and eusociality. <i>Nature</i> , 2011, 471, E1-E4.	13.7	339
7	INDIVIDUAL-LEVEL SELECTION AS A CAUSE OF COPE'S RULE OF PHYLETIC SIZE INCREASE. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 1608-1612.	1.1	286
8	Patterns and Power of Phenotypic Selection in Nature. <i>BioScience</i> , 2007, 57, 561-572.	2.2	209
9	The adaptive significance of an environmentally-cued developmental switch in an anuran tadpole. <i>Oecologia</i> , 1990, 85, 101-107.	0.9	203
10	POLYPHENISM IN SPADEFOOT TOAD TADPOLES AS A LOCALLY ADJUSTED EVOLUTIONARILY STABLE STRATEGY. <i>Evolution; International Journal of Organic Evolution</i> , 1992, 46, 1408-1420.	1.1	203
11	Frequency-dependent Batesian mimicry. <i>Nature</i> , 2001, 410, 323-323.	13.7	198
12	Kin recognition and cannibalism in spadefoot toad tadpoles. <i>Animal Behaviour</i> , 1993, 46, 87-94.	0.8	170
13	Character Displacement and the Origins of Diversity. <i>American Naturalist</i> , 2010, 176, S26-S44.	1.0	157
14	Genetic biases for showy males: Are some genetic systems especially conducive to sexual selection?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1089-1094.	3.3	154
15	Polyphenism in Spadefoot Toad Tadpoles as a Logically Adjusted Evolutionarily Stable Strategy. <i>Evolution; International Journal of Organic Evolution</i> , 1992, 46, 1408.	1.1	149
16	Genetic assimilation: a review of its potential proximate causes and evolutionary consequences. <i>Annals of Botany</i> , 2016, 117, 769-779.	1.4	145
17	HOW FLUCTUATING COMPETITION AND PHENOTYPIC PLASTICITY MEDIATE SPECIES DIVERGENCE. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1217-1228.	1.1	130
18	Kinship and Cannibalism. <i>BioScience</i> , 1997, 47, 667-675.	2.2	128

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19	CHARACTER DISPLACEMENT IN POLYPHENIC TADPOLES. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1738-1749.	1.1	122
20	Imperfect Mimicry and the Limits of Natural Selection. <i>Quarterly Review of Biology</i> , 2013, 88, 297-315.	0.0	117
21	Evolutionary Change in Continuous Reaction Norms. <i>American Naturalist</i> , 2014, 183, 453-467.	1.0	114
22	Kinship affects morphogenesis in cannibalistic salamanders. <i>Nature</i> , 1993, 362, 836-838.	13.7	111
23	The mechanism of nestmate discrimination in social wasps ( <i>Polistes</i> , Hymenoptera: Vespidae). <i>Behavioral Ecology and Sociobiology</i> , 1983, 13, 299-305.	0.6	110
24	ECOLOGICAL OPPORTUNITY AND PHENOTYPIC PLASTICITY INTERACT TO PROMOTE CHARACTER DISPLACEMENT AND SPECIES COEXISTENCE. <i>Ecology</i> , 2006, 87, 769-779.	1.5	109
25	FIELD AND EXPERIMENTAL EVIDENCE FOR COMPETITION'S ROLE IN PHENOTYPIC DIVERGENCE. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 257-271.	1.1	101
26	The emergence of performance trade-offs during local adaptation: insights from experimental evolution. <i>Molecular Ecology</i> , 2017, 26, 1720-1733.	2.0	99
27	Morphological novelty emerges from pre-existing phenotypic plasticity. <i>Nature Ecology and Evolution</i> , 2018, 2, 1289-1297.	3.4	96
28	Pathogens as a factor limiting the spread of cannibalism in tiger salamanders. <i>Oecologia</i> , 1991, 88, 161-166.	0.9	95
29	Predator Cognition Permits Imperfect Coral Snake Mimicry. <i>American Naturalist</i> , 2010, 176, 830-834.	1.0	95
30	Environmental Causes of Correlations between Age and Size at Metamorphosis in <i>Scaphiopus Multiplicatus</i> . <i>Ecology</i> , 1991, 72, 2240-2248.	1.5	92
31	Kin recognition and cannibalism in polyphenic salamanders. <i>Behavioral Ecology</i> , 1994, 5, 225-232.	1.0	92
32	Disruptive Selection in Natural Populations: The Roles of Ecological Specialization and Resource Competition. <i>American Naturalist</i> , 2009, 174, 268-281.	1.0	92
33	Resource polyphenism increases species richness: a test of the hypothesis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 577-591.	1.8	84
34	Diet and hormonal manipulation reveal cryptic genetic variation: implications for the evolution of novel feeding strategies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 3569-3578.	1.2	84
35	Mimicry on the edge: why do mimics vary in resemblance to their model in different parts of their geographical range?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 1955-1961.	1.2	83
36	Ancestral variation and the potential for genetic accommodation in larval amphibians: implications for the evolution of novel feeding strategies. <i>Evolution &amp; Development</i> , 2008, 10, 316-325.	1.1	82

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37	Cannibalistic tadpoles that pose the greatest threat to kin are most likely to discriminate kin. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 57-61.	1.2	75
38	Effect of Predator-Prey Phylogenetic Similarity on the Fitness Consequences of Predation: A Trade-off between Nutrition and Disease?. <i>American Naturalist</i> , 2000, 155, 335-345.	1.0	74
39	Genetic details, optimization and phage life histories. <i>Trends in Ecology and Evolution</i> , 2004, 19, 76-82.	4.2	71
40	CHARACTER DISPLACEMENT AS THE "BEST OF A BAD SITUATION": FITNESS TRADE-OFFS RESULTING FROM SELECTION TO MINIMIZE RESOURCE AND MATE COMPETITION. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 2200-2208.	1.1	65
41	Kin Recognition. <i>Scientific American</i> , 1995, 272, 98-103.	1.0	64
42	Learned component of nestmate discrimination in workers of a social wasp, <i>Polistes fuscatus</i> (Hymenoptera: Vespidae). <i>Animal Behaviour</i> , 1983, 31, 412-416.	0.8	63
43	Competition and the origins of novelty: experimental evolution of niche-width expansion in a virus. <i>Biology Letters</i> , 2013, 9, 20120616.	1.0	62
44	"KIN RECOGNITION" AMONG SPADEFOOT TOAD TADPOLES: A SIDE EFFECT OF HABITAT SELECTION?. <i>Evolution; International Journal of Organic Evolution</i> , 1990, 44, 785-798.	1.1	61
45	A TEST OF ALTERNATIVE HYPOTHESES FOR CHARACTER DIVERGENCE BETWEEN COEXISTING SPECIES. <i>Ecology</i> , 2003, 84, 1288-1297.	1.5	61
46	Cryptic Genetic Variation in Natural Populations: A Predictive Framework. <i>Integrative and Comparative Biology</i> , 2014, 54, 783-793.	0.9	60
47	Character displacement as the "best of a bad situation": fitness trade-offs resulting from selection to minimize resource and mate competition. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 2200-8.	1.1	60
48	Population differences in predation on Batesian mimics in allopatry with their model: selection against mimics is strongest when they are common. <i>Behavioral Ecology and Sociobiology</i> , 2007, 61, 505-511.	0.6	59
49	Mimics without models: causes and consequences of allopatry in Batesian mimicry complexes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 2577-2585.	1.2	59
50	PROXIMATE CAUSES OF CANNIBALISTIC POLYPHENISM IN LARVAL TIGER SALAMANDERS. <i>Ecology</i> , 1999, 80, 1076-1080.	1.5	56
51	High-model abundance may permit the gradual evolution of Batesian mimicry: an experimental test. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1041-1048.	1.2	56
52	Phenotypic plasticity, canalization, and the origins of novelty: Evidence and mechanisms from amphibians. <i>Seminars in Cell and Developmental Biology</i> , 2019, 88, 80-90.	2.3	56
53	Migration, local adaptation and the evolution of plasticity. <i>Trends in Ecology and Evolution</i> , 2002, 17, 540-541.	4.2	55
54	Selection overrides gene flow to break down maladaptive mimicry. <i>Nature</i> , 2008, 451, 1103-1106.	13.7	55

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55	A MATERNAL EFFECT MEDIATES RAPID POPULATION DIVERGENCE AND CHARACTER DISPLACEMENT IN SPADEFOOT TOADS. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 898-909.	1.1	55
56	Field and experimental evidence that competition and ecological opportunity promote resource polymorphism. <i>Biological Journal of the Linnean Society</i> , 0, 100, 73-88.	0.7	54
57	"Kin Recognition" Among Spadefoot Toad Tadpoles: A Side-Effect of Habitat Selection?. <i>Evolution; International Journal of Organic Evolution</i> , 1990, 44, 785.	1.1	51
58	Emerging model systems in eco-evo-devo: the environmentally responsive spadefoot toad. <i>Evolution &amp; Development</i> , 2011, 13, 391-400.	1.1	50
59	A test of alternative hypotheses for kin recognition in cannibalistic tiger salamanders. <i>Behavioral Ecology</i> , 1999, 10, 436-443.	1.0	47
60	Towards a gene regulatory network perspective on phenotypic plasticity, genetic accommodation and genetic assimilation. <i>Molecular Ecology</i> , 2014, 23, 4438-4440.	2.0	47
61	Relaxed Genetic Constraint is Ancestral to the Evolution of Phenotypic Plasticity. <i>Integrative and Comparative Biology</i> , 2012, 52, 16-30.	0.9	46
62	Plasticity-led evolution: A survey of developmental mechanisms and empirical tests. <i>Evolution &amp; Development</i> , 2020, 22, 71-87.	1.1	46
63	Character displacement: in situ evolution of novel phenotypes or sorting of pre-existing variation?. <i>Journal of Evolutionary Biology</i> , 2007, 20, 448-459.	0.8	45
64	Does character displacement initiate speciation? Evidence of reduced gene flow between populations experiencing divergent selection. <i>Journal of Evolutionary Biology</i> , 2010, 23, 854-865.	0.8	44
65	Neighbor Recognition and Context-dependent Aggression in a Solitary Wasp, <i>Sphecius speciosus</i> (Hymenoptera: Sphecidae). <i>Ethology</i> , 1989, 80, 1-18.	0.5	42
66	Inbreeding and reproductive performance in Standardbred horses. <i>Journal of Heredity</i> , 1984, 75, 220-224.	1.0	39
67	KIN-MEDIATED MORPHOGENESIS IN FACULTATIVELY CANNIBALISTIC TADPOLES. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 1993-1999.	1.1	39
68	Maternal Investment Influences Expression of Resource Polymorphism in Amphibians: Implications for the Evolution of Novel Resource-Use Phenotypes. <i>PLoS ONE</i> , 2010, 5, e9117.	1.1	38
69	Stress hormones and the fitness consequences associated with the transition to a novel diet in larval amphibians. <i>Journal of Experimental Biology</i> , 2009, 212, 3743-3750.	0.8	33
70	Plasticity-led evolution: evaluating the key prediction of frequency-dependent adaptation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182754.	1.2	33
71	Development and evolution of character displacement. <i>Annals of the New York Academy of Sciences</i> , 2012, 1256, 89-107.	1.8	32
72	AN EXPERIMENTAL TEST OF CHARACTER DISPLACEMENT'S ROLE IN PROMOTING POSTMATING ISOLATION BETWEEN CONSPECIFIC POPULATIONS IN CONTRASTING COMPETITIVE ENVIRONMENTS. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 2433-2443.	1.1	31

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73	An inducible offense: carnivore morph tadpoles induced by tadpole carnivory. <i>Ecology and Evolution</i> , 2015, 5, 1405-1411.	0.8	30
74	Analysis of range expansion in two species undergoing character displacement: why might invaders generally "win" during character displacement?. <i>Journal of Evolutionary Biology</i> , 2008, 21, 696-704.	0.8	28
75	A Batesian mimic and its model share color production mechanisms. <i>Environmental Epigenetics</i> , 2012, 58, 658-667.	0.9	27
76	Egg-dumping lace bugs preferentially oviposit with kin. <i>Animal Behaviour</i> , 2000, 59, 379-383.	0.8	26
77	More than mimicry? Evaluating scope for flicker-fusion as a defensive strategy in coral snake mimics. <i>Environmental Epigenetics</i> , 2014, 60, 123-130.	0.9	26
78	Parallel evolution and ecological selection: replicated character displacement in spadefoot toads. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 4189-4196.	1.2	25
79	Increased competition as a cost of specialization during the evolution of resource polymorphism. <i>Biological Journal of the Linnean Society</i> , 2012, 107, 845-853.	0.7	24
80	Widespread disruptive selection in the wild is associated with intense resource competition. <i>BMC Evolutionary Biology</i> , 2012, 12, 136.	3.2	24
81	Evolutionary rescue and the coexistence of generalist and specialist competitors: an experimental test. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151932.	1.2	24
82	Intraspecific adaptive radiation: Competition, ecological opportunity, and phenotypic diversification within species. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 2496-2509.	1.1	24
83	EVOLUTION OF CHARACTER DISPLACEMENT IN SPADEFOOT TOADS: DIFFERENT PROXIMATE MECHANISMS IN DIFFERENT SPECIES. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, no-no.	1.1	23
84	Competition and the evolution of imperfect mimicry. <i>Environmental Epigenetics</i> , 2012, 58, 608-619.	0.9	23
85	Behavioral Plasticity and the Origins of Novelty: The Evolution of the Rattlesnake Rattle. <i>American Naturalist</i> , 2016, 188, 475-483.	1.0	23
86	Genome of <i>Spea multiplicata</i> , a Rapidly Developing, Phenotypically Plastic, and Desert-Adapted Spadefoot Toad. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 3909-3919.	0.8	23
87	EVALUATING THE TARGETS OF SELECTION DURING CHARACTER DISPLACEMENT. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 2946-2958.	1.1	22
88	Rapid evolution of mimicry following local model extinction. <i>Biology Letters</i> , 2014, 10, 20140304.	1.0	22
89	The role of transgenerational epigenetic inheritance in diversification and speciation. <i>Non-Genetic Inheritance</i> , 2013, 1, .	0.8	20
90	Kin-Mediated Morphogenesis in Facultatively Cannibalistic Tadpoles. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 1993.	1.1	19

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91	CHARACTER DISPLACEMENT AS THE "BEST OF A BAD SITUATION": FITNESS TRADE-OFFS RESULTING FROM SELECTION TO MINIMIZE RESOURCE AND MATE COMPETITION. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 2200.	1.1	19
92	Evaluating the utility of camera traps in field studies of predation. <i>PeerJ</i> , 2019, 7, e6487.	0.9	19
93	Absence of joint nesting advantage in desert seed harvester ants: evidence from a field experiment. <i>Animal Behaviour</i> , 1995, 49, 567-575.	0.8	18
94	Mimicry's palette: widespread use of conserved pigments in the aposematic signals of snakes. <i>Evolution &amp; Development</i> , 2014, 16, 61-67.	1.1	16
95	Nestmate and nest discrimination among workers from neighboring colonies of social wasps <i>Polistes exclamans</i> . <i>Canadian Journal of Zoology</i> , 1990, 68, 268-271.	0.4	15
96	Male sexual signal predicts phenotypic plasticity in offspring: implications for the evolution of plasticity and local adaptation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180179.	1.8	15
97	Innovation and Diversification Via Plasticity-Led Evolution. , 2021, , 211-240.		14
98	Inviolate immigrants drive diversification in the sea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3713-3714.	3.3	13
99	Coevolutionary arms races in Batesian mimicry? A test of the chase-away hypothesis. <i>Biological Journal of the Linnean Society</i> , 2018, 124, 668-676.	0.7	13
100	Evolutionary rescue via transgenerational plasticity: Evidence and implications for conservation. <i>Evolution &amp; Development</i> , 2021, 23, 292-307.	1.1	13
101	Dominance as a Predictor of Cofoundress Disappearance Order in Social Wasps (<i>Polistes</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.2	12
102	Inducible competitors and adaptive diversification. <i>Environmental Epigenetics</i> , 2013, 59, 537-552.	0.9	12
103	Batesian mimicry promotes pre- and postmating isolation in a snake mimicry complex. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 1085-1090.	1.1	11
104	CHARACTER DISPLACEMENT IN POLYPHENIC TADPOLES. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1738.	1.1	10
105	HOW FLUCTUATING COMPETITION AND PHENOTYPIC PLASTICITY MEDIATE SPECIES DIVERGENCE. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1217.	1.1	10
106	How stabilizing selection and nongenetic inheritance combine to shape the evolution of phenotypic plasticity. <i>Journal of Evolutionary Biology</i> , 2019, 32, 706-716.	0.8	10
107	An experimental investigation of how intraspecific competition and phenotypic plasticity can promote the evolution of novel, complex phenotypes. <i>Biological Journal of the Linnean Society</i> , 2020, 131, 76-87.	0.7	9
108	Antipredator Behavior Promotes Diversification of Feeding Strategies. <i>Integrative and Comparative Biology</i> , 2012, 52, 53-63.	0.9	8

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109	Carryover effects and the evolution of polyphenism. <i>Biological Journal of the Linnean Society</i> , 2020, 131, 622-631.	0.7	8
110	A condition-dependent male sexual signal predicts adaptive predator-induced plasticity in offspring. <i>Behavioral Ecology and Sociobiology</i> , 2021, 75, 1.	0.6	8
111	To mimicry and back again. <i>Nature</i> , 2016, 534, 184-185.	13.7	7
112	Identification of candidate loci for adaptive phenotypic plasticity in natural populations of spadefoot toads. <i>Ecology and Evolution</i> , 2020, 10, 8976-8988.	0.8	6
113	Brotherly love benefits females. <i>Nature</i> , 2014, 505, 626-627.	13.7	4
114	Multiple models generate a geographical mosaic of resemblance in a Batesian mimicry complex. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191519.	1.2	4
115	Character displacement. <i>Current Biology</i> , 2020, 30, R1023-R1024.	1.8	4
116	Dead Spadefoot Tadpoles Adaptively Modify Development in Future Generations: A Novel Form of Nongenetic Inheritance?. <i>Copeia</i> , 2020, 108, 116.	1.4	4
117	Evolution: Ancestral Plasticity Promoted Extreme Temperature Adaptation in Thermophilic Bacteria. <i>Current Biology</i> , 2020, 30, R68-R70.	1.8	3
118	Microevolutionary change in mimicry? Potential erosion of rattling behaviour among nonvenomous snakes on islands lacking rattlesnakes. <i>Ethology Ecology and Evolution</i> , 2021, 33, 125-136.	0.6	3
119	Adaptive Plasticity as a Fitness Benefit of Mate Choice. <i>Trends in Ecology and Evolution</i> , 2021, 36, 294-307.	4.2	3
120	Transcriptomic bases of a polyphenism. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2021, 336, 482-495.	0.6	3
121	l.14 Phenotypic Selection. , 2009, , 101-108.		2
122	Life imperfectly imitates life. <i>Nature</i> , 2012, 483, 410-411.	13.7	2
123	Sexual selection's impacts on ecological specialization: an experimental test. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150217.	1.2	2
124	Stress hormones and the fitness consequences associated with the transition to a novel diet in larval amphibians. <i>Journal of Experimental Biology</i> , 2010, 213, 2547-2547.	0.8	1
125	Phenotypic plasticity and the origins of novelty. , 2020, , 443-458.		1
126	K. G. Ross and R. W. Matthews (eds) 1991: "The Social Biology of Wasps" Cornell University Press, Ithaca, New York, xvii, 678 pp., illus. \$72.50 (cloth); \$34.95 (paper) ISBN: 0-8014-9906-2.. <i>Journal of Evolutionary Biology</i> , 1992, 5, 729-731.	0.8	0



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127	Elgar, M. A. and Crespi, B. J. (eds.) 1992. Cannibalism. Ecology and evolution among diverse taxa. Oxford University Press, Oxford, viii + 361 pp., illus. \$75.00 (cloth), ISBN: 9-854-4650-4.. Journal of Evolutionary Biology, 1994, 7, 121-123.	0.8	0
128	The Evolution of Selflessness and Selfishness Survival Strategies: Cooperation and Conflict in Animal Societies Raghavendra Gadagkar. BioScience, 1998, 48, 956-958.	2.2	0
129	DARWIN IN THE TWENTY-FIRST CENTURY1. Evolution; International Journal of Organic Evolution, 2011, 65, 2130-2132.	1.1	0
130	Evolution and the Flexible Organism. American Scientist, 2022, 110, 94.	0.1	0