Stevan J Arnold

List of Publications by Citations

54 papers	12,707 citations	40 h-index	59 g-index
59 ext. papers	13,518 ext. citations	3.7 avg, IF	6.39 L-index

#	Paper	IF	Citations
54	THE MEASUREMENT OF SELECTION ON CORRELATED CHARACTERS. *Evolution; International Journal of Organic Evolution*, **1983**, 37, 1210-1226	3.8	4186
53	Morphology, Performance and Fitness. *American Zoologist*, **1983**, 23, 347-361		1124
52	ON THE MEASUREMENT OF NATURAL AND SEXUAL SELECTION: THEORY. *Evolution; International Journal of Organic Evolution*, **1984**, 38, 709-719	3.8	628
51	ON THE MEASUREMENT OF NATURAL AND SEXUAL SELECTION: APPLICATIONS. *Evolution; International Journal of Organic Evolution*, **1984**, 38, 720-734	3.8	606
50	VISUALIZING MULTIVARIATE SELECTION. *Evolution; International Journal of Organic Evolution*, **1989** , 43, 1209-1222	3.8	469
49	The intensity of sexual selection in relation to male sexual behaviour, female choice, and sperm precedence. *Animal Behaviour*, **1980**, 28, 446-461	2.8	402
48	On the Measurement of Natural and Sexual Selection: Theory. *Evolution; International Journal of Organic Evolution*, **1984**, 38, 709	3.8	371
47	The adaptive landscape as a conceptual bridge between micro- and macroevolution. *Genetica*, **2001**, 112/113, 9-32	1.5	363
46	Animal Mating Systems: A Synthesis Based on Selection Theory. *American Naturalist*, **1994**, 143, 317-348	3.7	354
45	HIERARCHICAL COMPARISON OF GENETIC VARIANCE-COVARIANCE MATRICES. I. USING THE FLURY HIERARCHY. *Evolution; International Journal of Organic Evolution*, **1999**, 53, 1506-1515	3.8	292
44	Hot Rocks and Not-So-Hot Rocks: Retreat-Site Selection by Garter Snakes and Its Thermal Consequences. *Ecology*, **1989**, 70, 931-944	4.6	278
43	Understanding the evolution and stability of the G-matrix. *Evolution; International Journal of Organic Evolution*, **2008**, 62, 2451-61	3.8	263
42	Multiple mating by females: a perspective from quantitative genetics. *Animal Behaviour*, **1987**, 35, 939-94	2.8	223
41	On the Measurement of Natural and Sexual Selection: Applications. *Evolution; International Journal of Organic Evolution*, **1984**, 38, 720	3.8	220
40	Bateman's Principles and the Measurement of Sexual Selection in Plants and Animals. *American Naturalist*, **1994**, 144, S126-S149	3.7	206
39	MEASURING THE EFFECTS OF PAIRING SUCCESS, EXTRA-PAIR COPULATIONS AND MATE QUALITY ON THE OPPORTUNITY FOR SEXUAL SELECTION. *Evolution; International Journal of Organic Evolution*, **1995**, 49, 1147-1157	3.8	198
38	Quantitative genetic models of sexual selection. *Trends in Ecology and Evolution*, **2004**, 19, 264-71	10.9	196

37	THE DARWIN-FISHER THEORY OF SEXUAL SELECTION IN MONOGAMOUS BIRDS. *Evolution; International Journal of Organic Evolution*, **1990**, 44, 180-193	3.8	169
36	BEHAVIORAL VARIATION IN NATURAL POPULATIONS. I. PHENOTYPIC, GENETIC AND ENVIRONMENTAL CORRELATIONS BETWEEN CHEMORECEPTIVE RESPONSES TO PREY IN THE GARTER SNAKE, THAMNOPHIS ELEGANS. *Evolution; International Journal of Organic Evolution*, **1981**, 35, 489-509	3.8	169
35	Sexual Behavior, Sexual Interference and Sexual Defense in the Salamanders Ambystoma maculatum, Ambystoma tigrinum and Plethodon jordani. *Zeitschrift F Tierpsychologie*, **2010**, 42, 247-300		156
34	The Bateman gradient and the cause of sexual selection in a sex-role-reversed pipefish. *Proceedings of the Royal Society B: Biological Sciences*, **2000**, 267, 677-80	4.4	148
33	Evolution of mating preference and sexual dimorphism. *Journal of Theoretical Biology*, **1985**, 117, 651-64	2.3	131
32	Behavioural variation in natural populations. III: Antipredator displays in the garter snake Thamnophis radix. *Animal Behaviour*, **1984**, 32, 1108-1118	2.8	123
31	THE EVOLUTIONARY ECOLOGY OF LIFE HISTORY VARIATION IN THE GARTER SNAKE THAMNOPHIS ELEGANS. *Ecology*, **1999**, 80, 2314-2325	4.6	118
30	THE EVOLUTION OF ASYMMETRY IN SEXUAL ISOLATION: A MODEL AND A TEST CASE. *Evolution; International Journal of Organic Evolution*, **1996**, 50, 1024-1033	3.8	114
29	Validation of Batemanʼs principles: a genetic study of sexual selection and mating patterns in the rough-skinned newt. *Proceedings of the Royal Society B: Biological Sciences*, **2002**, 269, 2533-9	4.4	95
28	Performance surfaces and adaptive landscapes. *Integrative and Comparative Biology*, **2003**, 43, 367-75	2.8	93
27	HIERARCHICAL COMPARISON OF GENETIC VARIANCE-COVARIANCE MATRICES. II COASTAL-INLAND DIVERGENCE IN THE GARTER SNAKE, THAMNOPHIS ELEGANS. *Evolution; International Journal of Organic Evolution*, **1999**, 53, 1516-1527	3.8	90
26	Measuring the Effects of Pairing Success, Extra-Pair Copulations and Mate Quality on the Opportunity for Sexual Selection. *Evolution; International Journal of Organic Evolution*, **1995**, 49, 1147	3.8	87
25	Behavioural variation in natural populations. V. Morphological correlates of locomotion in the garter snake (Thamnophis radix). *Biological Journal of the Linnean Society*, **1988**, 34, 175-190	1.9	80
24	Is there a Unifying Concept of Sexual Selection that Applies to Both Plants and Animals?. *American Naturalist*, **1994**, 144, S1-S12	3.7	76
23	A STATISTICAL STUDY OF MATE CHOICE: SEXUAL SELECTION IN A PLETHODONTID SALAMANDER (DESMOGNATHUS OCHROPHAEUS). *Evolution; International Journal of Organic Evolution*, **1985**, 39, 370-386	3.8	68
22	A model for optimal reaction norms: the case of the pregnant garter snake and her temperature-sensitive embryos. *American Naturalist*, **2002**, 160, 306-16	3.7	65
21	Molecular parentage analysis in experimental newt populations: the response of mating system measures to variation in the operational sex ratio. *American Naturalist*, **2004**, 164, 444-56	3.7	61
20	BEHAVIORAL VARIATION IN NATURAL POPULATIONS. II. THE INHERITANCE OF A FEEDING RESPONSE IN CROSSES BETWEEN GEOGRAPHIC RACES OF THE GARTER SNAKE, THAMNOPHIS ELEGANS. *Evolution; International Journal of Organic Evolution*, **1981**, 35, 510-515	3.8	61

19	Epistasis and natural selection shape the mutational architecture of complex traits. *Nature Communications*, **2014**, 5, 3709	17.4	58
18	Anaerobic metabolism and behavior during predatory encounters between snakes (Thamnophis elegans) and salamanders (Plethodon jordani). *Oecologia*, **1982**, 53, 93-97	2.9	56
17	BEHAVIORAL OBSERVATIONS OF SEXUAL ISOLATION AMONG ALLOPATRIC POPULATIONS OF THE MOUNTAIN DUSKY SALAMANDER, DESMOGNATHUS OCHROPHAEUS. *Evolution; International Journal of Organic Evolution*, **1989**, 43, 745-755	3.8	51
16	Phenotypic evolution: the ongoing synthesis (American Society of Naturalists address). *American Naturalist*, **2014**, 183, 729-46	3.7	45
15	Limits on Stabilizing, Disruptive, and Correlational Selection Set by the Opportunity for Selection. *American Naturalist*, **1986**, 128, 143-146	3.7	44
14	A Statistical Study of Mate Choice: Sexual Selection in a Plethodontid Salamander (Desmognathus ochrophaeus). *Evolution; International Journal of Organic Evolution*, **1985**, 39, 370	3.8	31
13	Multiple mating: Natural selection is not evolution. *Animal Behaviour*, **1988**, 36, 1547-1548	2.8	25
12	Patterns of sperm use in two populations of Red-sided Garter Snake (Thamnophis sirtalis parietalis) with long-term female sperm storage. *Canadian Journal of Zoology*, **2014**, 92, 33-40	1.5	24
11	Behavioural variation in natural populations. VII. Maternal body temperature does not affect juvenile thermoregulation in a garter snake. *Animal Behaviour*, **1995**, 50, 623-633	2.8	20
10	Multiple mating by females: the design and interpretation of selectoon experiments. *Animal Behaviour*, **1992**, 43, 178-179	2.8	19
9	Gene Duplication, Co-option, Structural Evolution, and Phenotypic Tango in the Courtship Pheromones of Plethodontid Salamanders. *Herpetologica*, **2017**, 73, 206-219	1.9	13
8	The Evolution of Courtship Behavior in Plethodontid Salamanders, Contrasting Patterns of Stasis and Diversification. *Herpetologica*, **2017**, 73, 190	1.9	11
7	Genetic variation in two populations of the rough-skinned newt (Taricha granulosa) assessed using novel tetranucleotide microsatellite loci. *Molecular Ecology Notes*, **2001**, 1, 293-296		11
6	Correlational selection in the age of genomics. *Nature Ecology and Evolution*, **2021**, 5, 562-573	12.3	7
5	Mass-rearing of plethodontid salamander eggs. *Amphibia - Reptilia*, **1999**, 20, 219-224	1.2	4
4	Bite performance surfaces of three ecologically divergent Iguanidae lizards: relationships with lower jaw bones. *Biological Journal of the Linnean Society*, **2019**, 127, 810-825	1.9	3
3	The Effects of Epistasis and Pleiotropy on Genome-Wide Scans for Adaptive Outlier Loci. *Journal of Heredity*, **2019**, 110, 494-513	2.4	2
2	Novel tetranucleotide microsatellite markers from the Del Norte salamander (Plethodon elongatus) with application to its sister species the Siskiyou Mountain salamander (P. stormi). *Molecular Ecology Notes*, **2004**, 4, 352-354		

1 The G-matrix Simulator Family: Software for Research and Teaching. *Journal of Heredity*, **2018**, 109, 825-829