

# Edmund Darrell Brodie Iii

## List of Publications by Year in descending order

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53  
papers

4,047  
citations

218677

26  
h-index

182427

51  
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56  
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56  
docs citations

56  
times ranked

3315  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Synthesis of Game Theory and Quantitative Genetic Models of Social Evolution. <i>Journal of Heredity</i> , 2022, 113, 109-119.	2.4	10
2	Interacting phenotypes and the coevolutionary process: Interspecific indirect genetic effects alter coevolutionary dynamics. <i>Evolution; International Journal of Organic Evolution</i> , 2022, 76, 429-444.	2.3	13
3	Group composition of individual personalities alters social network structure in experimental populations of forked fungus beetles. <i>Biology Letters</i> , 2022, 18, 20210509.	2.3	8
4	Group and individual social network metrics are robust to changes in resource distribution in experimental populations of forked fungus beetles. <i>Journal of Animal Ecology</i> , 2022, 91, 895-907.	2.8	4
5	The road not taken: Evolution of tetrodotoxin resistance in the Sierra garter snake ( <i>Thamnophis</i> )	3.9	7
6	Mycophagous beetle females do not behave competitively during intrasexual interactions in presence of a fungal resource. <i>Ecology and Evolution</i> , 2022, 12, .	1.9	0
7	Social network position experiences more variable selection than weaponry in wild subpopulations of forked fungus beetles. <i>Journal of Animal Ecology</i> , 2021, 90, 168-182.	2.8	16
8	Male competition reverses female preference for male chemical cues. <i>Ecology and Evolution</i> , 2021, 11, 4532-4541.	1.9	2
9	Rapid reversal of a potentially constraining genetic covariance between leaf and flower traits in <i>Silene latifolia</i> . <i>Ecology and Evolution</i> , 2020, 10, 569-578.	1.9	4
10	The geographic mosaic in parallel: Matching patterns of newt tetrodotoxin levels and snake resistance in multiple predator-prey pairs. <i>Journal of Animal Ecology</i> , 2020, 89, 1645-1657.	2.8	22
11	The geographic mosaic of arms race coevolution is closely matched to prey population structure. <i>Evolution Letters</i> , 2020, 4, 317-332.	3.3	23
12	Sex-Specific Selection and the Evolution of Between-Sex Genetic Covariance. <i>Journal of Heredity</i> , 2019, 110, 422-432.	2.4	25
13	Large-effect mutations generate trade-off between predatory and locomotor ability during arms race coevolution with deadly prey. <i>Evolution Letters</i> , 2018, 2, 406-416.	3.3	23
14	Adaptive radiation along a deeply conserved genetic line of least resistance in <i>Anolis</i> lizards. <i>Evolution Letters</i> , 2018, 2, 310-322.	3.3	75
15	Convergent adaptation to dangerous prey proceeds through the same first-step mutation in the garter snake <i>Thamnophis sirtalis</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 1504-1518.	2.3	22
16	Comparing the Natural and Anthropogenic Sodium Channel Blockers Tetrodotoxin and Indoxacarb in Garter Snakes. <i>Journal of Experimental Zoology</i> , 2016, 325, 255-264.	1.2	2
17	Evolutionary response when selection and genetic variation covary across environments. <i>Ecology Letters</i> , 2016, 19, 1189-1200.	6.4	52
18	Toxicity and population structure of the Rough-skinned Newt ( <i>Taricha granulosa</i> ) outside the range of an arms race with resistant predators. <i>Ecology and Evolution</i> , 2016, 6, 2714-2724.	1.9	18

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19	Scale dependence of sex ratio in wild plant populations: implications for social selection. <i>Ecology and Evolution</i> , 2016, 6, 1411-1419.	1.9	4
20	Predictably Convergent Evolution of Sodium Channels in the Arms Race between Predators and Prey. <i>Brain, Behavior and Evolution</i> , 2015, 86, 48-57.	1.7	23
21	Environmental effects on the structure of the G-matrix. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 2927-2940.	2.3	106
22	Confirmation and Distribution of Tetrodotoxin for the First Time in Terrestrial Invertebrates: Two Terrestrial Flatworm Species ( <i>Bipalium adventitium</i> and <i>Bipalium kewense</i> ). <i>PLoS ONE</i> , 2014, 9, e100718.	2.5	47
23	Interspecific Aggression and Habitat Partitioning in Garter Snakes. <i>PLoS ONE</i> , 2014, 9, e86208.	2.5	8
24	CONVERGENT EVOLUTION OF SEXUAL DIMORPHISM IN SKULL SHAPE USING DISTINCT DEVELOPMENTAL STRATEGIES. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 2180-2193.	2.3	79
25	Surprisingly little population genetic structure in a fungus-associated beetle despite its exploitation of multiple hosts. <i>Ecology and Evolution</i> , 2013, 3, 1484-1494.	1.9	10
26	Fine-scale selection by ovipositing females increases egg survival. <i>Ecology and Evolution</i> , 2012, 2, 2763-2774.	1.9	10
27	Morphological Correlates of a Combat Performance Trait in the Forked Fungus Beetle, <i>Bolitotherus cornutus</i> . <i>PLoS ONE</i> , 2012, 7, e42738.	2.5	14
28	Female philopatry and male-biased dispersal in a direct-developing salamander, <i>Plethodon cinereus</i> . <i>Molecular Ecology</i> , 2011, 20, 249-257.	3.9	96
29	PHENOTYPIC ASSORTMENT MEDIATES THE EFFECT OF SOCIAL SELECTION IN A WILD BEETLE POPULATION. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 2771-2781.	2.3	82
30	ELIMINATION OF A GENETIC CORRELATION BETWEEN THE SEXES VIA ARTIFICIAL CORRELATIONAL SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 2872-2880.	2.3	71
31	NATURAL HISTORY FIRST (BUT DON'T STOP THERE). <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 3336-3337.	2.3	0
32	CONVERGENT EVOLUTION OF PHENOTYPIC INTEGRATION AND ITS ALIGNMENT WITH MORPHOLOGICAL DIVERSIFICATION IN CARIBBEAN ANOLIS ECOMORPHS. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 3608-3624.	2.3	64
33	Tetrodotoxin affects survival probability of rough-skinned newts ( <i>Taricha granulosa</i> ) faced with TTX-resistant garter snake predators ( <i>Thamnophis sirtalis</i> ). <i>Chemoecology</i> , 2010, 20, 285-290.	1.1	36
34	INTERACTING PHENOTYPES AND THE EVOLUTIONARY PROCESS. III. SOCIAL EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 2558-2574.	2.3	239
35	Multilevel and kin selection in a connected world. <i>Nature</i> , 2010, 463, E8-E9.	27.8	44
36	INDIRECT GENETIC EFFECTS INFLUENCE ANTIPREDATOR BEHAVIOR IN GUPPIES: ESTIMATES OF THE COEFFICIENT OF INTERACTION AND THE INHERITANCE OF RECIPROCITY. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 1796-1806.	2.3	81

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37	Phenotypic Mismatches Reveal Escape from Arms-Race Coevolution. <i>PLoS Biology</i> , 2008, 6, e60.	5.6	175
38	Patterns of genetic differentiation in <i>Thamnophis</i> and <i>Taricha</i> from the Pacific Northwest. <i>Journal of Biogeography</i> , 2007, 34, 724-735.	3.0	18
39	SEXUAL DIMORPHISM IN THE QUANTITATIVE-GENETIC ARCHITECTURE OF FLORAL, LEAF, AND ALLOCATION TRAITS IN <i>SILENE LATIFOLIA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 42-57.	2.3	96
40	Resistance of Neonates and Field-Collected Garter Snakes ( <i>Thamnophis</i> spp.) to Tetrodotoxin. <i>Journal of Chemical Ecology</i> , 2004, 30, 143-154.	1.8	18
41	An Analysis of Single Clutch Paternity in the Burrower Bug <i>Sehirus cinctus</i> Using Microsatellites. <i>Journal of Insect Behavior</i> , 2003, 16, 731-745.	0.7	3
42	DEVELOPMENTAL INTERACTIONS AND THE CONSTITUENTS OF QUANTITATIVE VARIATION. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 232-245.	2.3	59
43	The evolution of empty nuptial gifts in a dance fly, <i>Empis snoddyi</i> (Diptera: Empididae): bigger isn't always better. <i>Behavioral Ecology and Sociobiology</i> , 1999, 45, 161-166.	1.4	38
44	COSTS OF EXPLOITING POISONOUS PREY: EVOLUTIONARY TRADE-OFFS IN A PREDATOR-PREY ARMS RACE. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 626-631.	2.3	112
45	EVOLUTIONARY RESPONSE OF PREDATORS TO DANGEROUS PREY: PREADAPTATION AND THE EVOLUTION OF TETRODOTOXIN RESISTANCE IN GARTER SNAKES. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 1528-1535.	2.3	21
46	Evolutionary consequences of indirect genetic effects. <i>Trends in Ecology and Evolution</i> , 1998, 13, 64-69.	8.7	742
47	THE COADAPTATION OF PARENTAL AND OFFSPRING CHARACTERS. <i>Evolution; International Journal of Organic Evolution</i> , 1998, 52, 299-308.	2.3	141
48	INTERACTING PHENOTYPES AND THE EVOLUTIONARY PROCESS: I. DIRECT AND INDIRECT GENETIC EFFECTS OF SOCIAL INTERACTIONS. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 1352-1362.	2.3	577
49	ON THE ASSIGNMENT OF FITNESS VALUES IN STATISTICAL ANALYSES OF SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 437-442.	2.3	79
50	HOMOGENEITY OF THE GENETIC VARIANCE-COVARIANCE MATRIX FOR ANTIPREDATOR TRAITS IN TWO NATURAL POPULATIONS OF THE GARTER SNAKE <i>THAMNOPHIS ORDINOIDES</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 844-854.	2.3	84
51	CORRELATIONAL SELECTION FOR COLOR PATTERN AND ANTIPREDATOR BEHAVIOR IN THE GARTER SNAKE <i>THAMNOPHIS ORDINOIDES</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1992, 46, 1284-1298.	2.3	320
52	EVOLUTIONARY RESPONSE OF PREDATORS TO DANGEROUS PREY-REDUCTION OF TOXICITY OF NEWTS AND RESISTANCE OF GARTER SNAKES IN ISLAND POPULATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 1991, 45, 221-224.	2.3	65
53	TETRODOTOXIN RESISTANCE IN GARTER SNAKES: AN EVOLUTIONARY RESPONSE OF PREDATORS TO DANGEROUS PREY. <i>Evolution; International Journal of Organic Evolution</i> , 1990, 44, 651-659.	2.3	153