Don R Levitan

List of Publications by Year
in descending order

62 papers	4,482 citations	101543 36 h-index	128289 60 g-index
64 all docs	64 docs citations	64 times ranked	2601 citing authors

#	Article	IF	Citations
1	Linking photoacclimation responses and microbiome shifts between depth-segregated sibling species of reef corals. Royal Society Open Science, 2022, 9, 211591.	2.4	3
2	Lessons from the study of plantÂmating systems for exploring the causes and consequences of inbreeding in marine invertebrates. Marine Biology, 2021, 168, 1.	1.5	1
3	Inbreeding shapes the evolution of marine invertebrates. Evolution; International Journal of Organic Evolution, 2020, 74, 871-882.	2.3	27
4	The Ecology of Fertilization in Free-Spawning Invertebrates. , 2020, , 123-156.		51
5	The evolution of gametic compatibility and compatibility groups in the sea urchin Mesocentrotus franciscanus : An avenue for speciation in the sea. Evolution; International Journal of Organic Evolution, 2019, 73, 1428-1442.	2.3	11
6	Somatic Mutation Is a Function of Clone Size and Depth inOrbicellaReef-Building Corals. Biological Bulletin, 2019, 236, 1-12.	1.8	9
7	Do Sperm Really Compete and Do Eggs Ever Have a Choice? Adult Distribution and Gamete Mixing Influence Sexual Selection, Sexual Conflict, and the Evolution of Gamete Recognition Proteins in the Sea. American Naturalist, 2018, 191, 88-105.	2.1	23
8	The Role of Male Variation in Fertilization Success in Determining the Costs and Benefits of Polyandry in the Broadcast Spawning Urchin Lytechinus variegatus. Biological Bulletin, 2018, 235, 63-70.	1.8	2
9	Metabolic scaling in modular animals. Invertebrate Biology, 2017, 136, 456-472.	0.9	39
10	Chemoattractant-Mediated Preference of Non-Self Eggs in Ciona robusta Sperm. Biological Bulletin, 2017, 233, 183-189.	1.8	2
11	Ocean acidification changes the male fitness landscape. Scientific Reports, 2016, 6, 31250.	3.3	24
12	Assortative Mating Drives Linkage Disequilibrium between Sperm and Egg Recognition Protein Loci in the Sea Urchin Strongylocentrotus purpuratus. Molecular Biology and Evolution, 2015, 32, 859-870.	8.9	20
13	Sperm competition and the evolution of gametic compatibility in externally fertilizing taxa. Molecular Human Reproduction, 2014, 20, 1190-1197.	2.8	31
14	What makes a species common? No evidence of density-dependent recruitment or mortality of the sea urchin Diadema antillarum after the 1983â€“1984 mass mortality. Oecologia, 2014, 175, 117-128.	2.0	38
15	CONTEMPORARY EVOLUTION OF SEA URCHIN GAMETE-RECOGNITION PROTEINS: EXPERIMENTAL EVIDENCE OF DENSITY-DEPENDENT GAMETE PERFORMANCE PREDICTS SHIFTS IN ALLELE FREQUENCIES OVER TIME. Evolution; International Journal of Organic Evolution, 2012, 66, 1722-1736.	2.3	37
16	Weak Prezygotic Isolating Mechanisms in Threatened Caribbean Acropora Corals. PLoS ONE, 2012, 7, e30486.	2.5	69
17	Measuring Fertilization Success of Broadcast-Spawning Marine Invertebrates Within Seagrass Meadows. Biological Bulletin, 2011, 220, 32-38.	1.8	11
18	GENETIC, SPATIAL, AND TEMPORAL COMPONENTS OF PRECISE SPAWNING SYNCHRONY IN REEF BUILDING CORALS OF THEMONTASTRAEA ANNULARISSPECIES COMPLEX. Evolution; International Journal of Organic Evolution, 2011, 65, 1254-1270.	2.3	72

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19	Evolution of prey in ecological time reduces the effect size of predators in experimental microcosms. Ecology, 2010, 91, 629-636.	3.2	60
20	Influence of Sperm and Phytoplankton on Spawning in the Echinoid Lytechinus variegatus. Biological Bulletin, 2010, 219, 198-206.	1.8	28
21	SIMULTANEOUS POSITIVE AND NEGATIVE FREQUENCY-DEPENDENT SELECTION ON SPERM BINDIN, A GAMETE RECOGNITION PROTEIN IN THE SEA URCHINSTRONGYLOCENTROTUS PURPURATUS. Evolution; International Journal of Organic Evolution, 2010, 64, 785-797.	2.3	50
22	Modeling How Reproductive Ecology Can Drive Protein Diversification and Result in Linkage Disequilibrium between Sperm and Egg Proteins. American Naturalist, 2010, 176, 14-25.	2.1	24
23	GAMETE TRAITS INFLUENCE THE VARIANCE IN REPRODUCTIVE SUCCESS, THE INTENSITY OF SEXUAL SELECTION, AND THE OUTCOME OF SEXUAL CONFLICT AMONG CONGENERIC SEA URCHINS. Evolution; International Journal of Organic Evolution, 2008, 62, 1305-1316.	2.3	51
24	THE RISK OF POLYSPERMY IN THREE CONGENERIC SEA URCHINS AND ITS IMPLICATIONS FOR GAMETIC INCOMPATIBILITY AND REPRODUCTIVE ISOLATION. Evolution; International Journal of Organic Evolution, 2007, 61, 2007-2014.	2.3	71
25	A THEORETICAL INVESTIGATION OF SYMPATRIC EVOLUTION OF TEMPORAL REPRODUCTIVE ISOLATION AS ILLUSTRATED BY MARINE BROADCAST SPAWNERS. Evolution; International Journal of Organic Evolution, 2007, 61, 2584-2595.	2.3	28
26	The influence of stage-dependent dispersal on the population dynamics of three amphipod species. Oecologia, 2007, 153, 533-541.	2.0	28
27	The relationship between egg size and fertilization success in broadcast-spawning marine invertebrates. Integrative and Comparative Biology, 2006, 46, 298-311.	2.0	84
28	Selection on Gamete Recognition Proteins Depends on Sex, Density, and Genotype Frequency. Science, 2006, 312, 267-269.	12.6	147
29	SEA URCHIN BINDIN DIVERGENCE PREDICTS GAMETE COMPATIBILITY. Evolution; International Journal of Organic Evolution, 2005, 59, 2399-2404.	2.3	84
30	The Distribution of Male and Female Reproductive Success in a Broadcast Spawning Marine Invertebrate. Integrative and Comparative Biology, 2005, 45, 848-855.	2.0	59
31	SEA URCHIN BINDIN DIVERGENCE PREDICTS GAMETE COMPATIBILITY. Evolution; International Journal of Organic Evolution, 2005, 59, 2399.	2.3	10
32	Sexâ€Specific Spawning Behavior and Its Consequences in an External Fertilizer. American Naturalist, 2005, 165, 682-694.	2.1	52
33	MECHANISMS OF REPRODUCTIVE ISOLATION AMONG SYMPATRIC BROADCAST-SPAWNING CORALS OF THE MONTASTRAEA ANNULARIS SPECIES COMPLEX. Evolution; International Journal of Organic Evolution, 2004, 58, 308.	2.3	51
34	Polymorphic microsatellite loci from the red urchin, Strongylocentrotus franciscanus, with comments on heterozygote deficit. Molecular Ecology Notes, 2004, 4, 226-228.	1.7	20
35	MECHANISMS OF REPRODUCTIVE ISOLATION AMONG SYMPATRIC BROADCAST-SPAWNING CORALS OF THE MONTASTRAEA ANNULARIS SPECIES COMPLEX. Evolution; International Journal of Organic Evolution, 2004, 58, 308-323.	2.3	183
36	GEOGRAPHIC DIFFERENCES IN SPECIES BOUNDARIES AMONG MEMBERS OF THE MONTASTRAEA ANNULARIS COMPLEX BASED ON MOLECULAR AND MORPHOLOGICAL MARKERS. Evolution; International Journal of Organic Evolution, 2004, 58, 324-337.	2.3	195

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37	Densityâ€Dependent Sexual Selection in External Fertilizers: Variances in Male and Female Fertilization Success along the Continuum from Sperm Limitation to Sexual Conflict in the Sea Urchin Strongylocentrotus franciscanus. American Naturalist, 2004, 164, 298-309.	2.1	143
38	Mechanisms of reproductive isolation among sympatric broadcast-spawning corals of the Montastraea annularis species complex. Evolution; International Journal of Organic Evolution, 2004, 58, 308-23.	2.3	55
39	THE RELATIONSHIP BETWEEN CONSPECIFIC FERTILIZATION SUCCESS AND REPRODUCTIVE ISOLATION AMONG THREE CONGENERIC SEA URCHINS. Evolution; International Journal of Organic Evolution, 2002, 56, 1599.	2.3	5
40	DENSITY-DEPENDENT SELECTION ON GAMETE TRAITS IN THREE CONGENERIC SEA URCHINS. Ecology, 2002, 83, 464-479.	3.2	103
41	THE RELATIONSHIP BETWEEN CONSPECIFIC FERTILIZATION SUCCESS AND REPRODUCTIVE ISOLATION AMONG THREE CONGENERIC SEA URCHINS. Evolution; International Journal of Organic Evolution, 2002, 56, 1599-1689.	2.3	78
42	Density-Dependent Selection on Gamete Traits in Three Congeneric Sea Urchins. Ecology, 2002, 83, 464.	3.2	6
43	FERTILIZATION SELECTION ON EGG AND JELLY-COAT SIZE IN THE SAND DOLLAR DENDRASTER EXCENTRICUS. Evolution; International Journal of Organic Evolution, 2001, 55, 2479-2483.	2.3	32
44	FERTILIZATION SELECTION ON EGG AND JELLY-COAT SIZE IN THE SAND DOLLAR DENDRASTER EXCENTRICUS. Evolution; International Journal of Organic Evolution, 2001, 55, 2479.	2.3	2
45	The Role of Jelly Coats in Spermâ€Egg Encounters, Fertilization Success, and Selection on Egg Size in Broadcast Spawners. American Naturalist, 2001, 157, 626-636.	2.1	68
46	Optimal Egg Size in Marine Invertebrates: Theory and Phylogenetic Analysis of the Critical Relationship between Egg Size and Development Time in Echinoids. American Naturalist, 2000, 156, 175-192.	2.1	185
47	Sperm velocity and longevity trade off each other and influence fertilization in the sea urchinLytechinus variegatus. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 531-534.	2.6	241
48	Predicting Optimal and Unique Egg Sizes in Free-Spawning Marine Invertebrates. American Naturalist, 1996, 148, 174-188.	2.1	62
49	Effects of gamete traits on fertilization in the sea and the evolution of sexual dimorphism. Nature, 1996, 382, 153-155.	27.8	132
50	Reproductive success in large populations: empirical measures and theoretical predictions of fertilization in the sea biscuit Clypeaster rosaceus. Journal of Experimental Marine Biology and Ecology, 1995, 190, 221-241.	1.5	102
51	Sperm limitation in the sea. Trends in Ecology and Evolution, 1995, 10, 228-231.	8.7	391
52	The Importance of Sperm Limitation to the Evolution of Egg Size in Marine Invertebrates. American Naturalist, 1993, 141, 517-536.	2.1	260
53	Community Structure in Time Past: Influence of Human Fishing Pressure on Algal-Urchin Interactions. Ecology, 1992, 73, 1597-1605.	3.2	55
54	How Distribution and Abundance Influence Fertilization Success in the Sea Urchin Strongylocentotus Franciscanus. Ecology, 1992, 73, 248-254.	3.2	320

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55	Reply from Grosberg and Levitan. Trends in Ecology and Evolution, 1992, 7, 392-393.	8.7	0
56	For adults only? Supply-side ecology and the history of larval biology. Trends in Ecology and Evolution, 1992, 7, 130-133.	8.7	139
57	Recruitment-limitation in open populations of Diadema antillarum: an evaluation. Oecologia, 1990, 82, 40-44.	2.0	83
58	Substratum-dependent predator-prey dynamics: patch reefs as refuges from gastropod predation. Journal of Experimental Marine Biology and Ecology, 1989, 130, 111-118.	1.5	44
59	Density-Dependent Size Regulation in Diadema Antillarum: Effects on Fecundity and Survivorship. Ecology, 1989, 70, 1414-1424.	3.2	91
60	Density-dependent size regulation and negative growth in the sea urchin Diadema antillarum Philippi. Oecologia, 1988, 76, 627-629.	2.0	104
61	Algal-urchin biomass responses following mass mortality of Diadema antillarum Philippi at Saint John, U.S. Virgin Islands. Journal of Experimental Marine Biology and Ecology, 1988, 119, 167-178.	1.5	82
62	Do Interactions of Cellular Slime Mold Species Regulate their Densities in Soil?. Ecology, 1988, 69, 193-199.	3.2	3