

Don R Levitan

List of Publications by Year in descending order

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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	Sperm limitation in the sea. <i>Trends in Ecology and Evolution</i> , 1995, 10, 228-231.	8.7	391
2	How Distribution and Abundance Influence Fertilization Success in the Sea Urchin <i>Strongylocentrotus Franciscanus</i> . <i>Ecology</i> , 1992, 73, 248-254.	3.2	320
3	The Importance of Sperm Limitation to the Evolution of Egg Size in Marine Invertebrates. <i>American Naturalist</i> , 1993, 141, 517-536.	2.1	260
4	Sperm velocity and longevity trade off each other and influence fertilization in the sea urchin <i>Lytechinus variegatus</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 531-534.	2.6	241
5	GEOGRAPHIC DIFFERENCES IN SPECIES BOUNDARIES AMONG MEMBERS OF THE MONTASTRAEA ANNULARIS COMPLEX BASED ON MOLECULAR AND MORPHOLOGICAL MARKERS. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 324-337.	2.3	195
6	Optimal Egg Size in Marine Invertebrates: Theory and Phylogenetic Analysis of the Critical Relationship between Egg Size and Development Time in Echinoids. <i>American Naturalist</i> , 2000, 156, 175-192.	2.1	185
7	MECHANISMS OF REPRODUCTIVE ISOLATION AMONG SYMPATRIC BROADCAST-SPAWNING CORALS OF THE MONTASTRAEA ANNULARIS SPECIES COMPLEX. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 308-323.	2.3	183
8	Selection on Gamete Recognition Proteins Depends on Sex, Density, and Genotype Frequency. <i>Science</i> , 2006, 312, 267-269.	12.6	147
9	Density-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 <i>Strongylocentrotus franciscanus</i> . <i>American Naturalist</i> , 2004, 164, 298-309.	2.1	143
10	For adults only? Supply-side ecology and the history of larval biology. <i>Trends in Ecology and Evolution</i> , 1992, 7, 130-133.	8.7	139
11	Effects of gamete traits on fertilization in the sea and the evolution of sexual dimorphism. <i>Nature</i> , 1996, 382, 153-155.	27.8	132
12	Density-dependent size regulation and negative growth in the sea urchin <i>Diadema antillarum</i> Philippi. <i>Oecologia</i> , 1988, 76, 627-629.	2.0	104
13	DENSITY-DEPENDENT SELECTION ON GAMETE TRAITS IN THREE CONGENERIC SEA URCHINS. <i>Ecology</i> , 2002, 83, 464-479.	3.2	103
14	Reproductive success in large populations: empirical measures and theoretical predictions of fertilization in the sea biscuit <i>Clypeaster rosaceus</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 1995, 190, 221-241.	1.5	102
15	Density-Dependent Size Regulation in <i>Diadema Antillarum</i> : Effects on Fecundity and Survivorship. <i>Ecology</i> , 1989, 70, 1414-1424.	3.2	91
16	SEA URCHIN BINDIN DIVERGENCE PREDICTS GAMETE COMPATIBILITY. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 2399-2404.	2.3	84
17	The relationship between egg size and fertilization success in broadcast-spawning marine invertebrates. <i>Integrative and Comparative Biology</i> , 2006, 46, 298-311.	2.0	84
18	Recruitment-limitation in open populations of <i>Diadema antillarum</i> : an evaluation. <i>Oecologia</i> , 1990, 82, 40-44.	2.0	83

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19	Algal-urchin biomass responses following mass mortality of <i>Diadema antillarum</i> Philippi at Saint John, U.S. Virgin Islands. <i>Journal of Experimental Marine Biology and Ecology</i> , 1988, 119, 167-178.	1.5	82
20	THE RELATIONSHIP BETWEEN CONSPECIFIC FERTILIZATION SUCCESS AND REPRODUCTIVE ISOLATION AMONG THREE CONGENERIC SEA URCHINS. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1599-1689.	2.3	78
21	GENETIC, SPATIAL, AND TEMPORAL COMPONENTS OF PRECISE SPAWNING SYNCHRONY IN REEF BUILDING CORALS OF THE <i>MONTASTRAEA ANNULARIS</i> SPECIES COMPLEX. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 1254-1270.	2.3	72
22	THE RISK OF POLYSPERMY IN THREE CONGENERIC SEA URCHINS AND ITS IMPLICATIONS FOR GAMETIC INCOMPATIBILITY AND REPRODUCTIVE ISOLATION. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 2007-2014.	2.3	71
23	Weak Prezygotic Isolating Mechanisms in Threatened Caribbean <i>Acropora</i> Corals. <i>PLoS ONE</i> , 2012, 7, e30486.	2.5	69
24	The Role of Jelly Coats in Sperm-Egg Encounters, Fertilization Success, and Selection on Egg Size in Broadcast Spawners. <i>American Naturalist</i> , 2001, 157, 626-636.	2.1	68
25	Predicting Optimal and Unique Egg Sizes in Free-Spawning Marine Invertebrates. <i>American Naturalist</i> , 1996, 148, 174-188.	2.1	62
26	Evolution of prey in ecological time reduces the effect size of predators in experimental microcosms. <i>Ecology</i> , 2010, 91, 629-636.	3.2	60
27	The Distribution of Male and Female Reproductive Success in a Broadcast Spawning Marine Invertebrate. <i>Integrative and Comparative Biology</i> , 2005, 45, 848-855.	2.0	59
28	Community Structure in Time Past: Influence of Human Fishing Pressure on Algal-Urchin Interactions. <i>Ecology</i> , 1992, 73, 1597-1605.	3.2	55
29	Mechanisms of reproductive isolation among sympatric broadcast-spawning corals of the <i>Montastraea annularis</i> species complex. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 308-23.	2.3	55
30	Sex-Specific Spawning Behavior and Its Consequences in an External Fertilizer. <i>American Naturalist</i> , 2005, 165, 682-694.	2.1	52
31	MECHANISMS OF REPRODUCTIVE ISOLATION AMONG SYMPATRIC BROADCAST-SPAWNING CORALS OF THE <i>MONTASTRAEA ANNULARIS</i> SPECIES COMPLEX. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 308.	2.3	51
32	GAMETE TRAITS INFLUENCE THE VARIANCE IN REPRODUCTIVE SUCCESS, THE INTENSITY OF SEXUAL SELECTION, AND THE OUTCOME OF SEXUAL CONFLICT AMONG CONGENERIC SEA URCHINS. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 1305-1316.	2.3	51
33	The Ecology of Fertilization in Free-Spawning Invertebrates. , 2020, , 123-156.		51
34	SIMULTANEOUS POSITIVE AND NEGATIVE FREQUENCY-DEPENDENT SELECTION ON SPERM BINDIN, A GAMETE RECOGNITION PROTEIN IN THE SEA URCHIN <i>STRONGYLOCENTROTUS PURPURATUS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 785-797.	2.3	50
35	Substratum-dependent predator-prey dynamics: patch reefs as refuges from gastropod predation. <i>Journal of Experimental Marine Biology and Ecology</i> , 1989, 130, 111-118.	1.5	44
36	Metabolic scaling in modular animals. <i>Invertebrate Biology</i> , 2017, 136, 456-472.	0.9	39

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37	What makes a species common? No evidence of density-dependent recruitment or mortality of the sea urchin <i>Diadema antillarum</i> after the 1983–1984 mass mortality. <i>Oecologia</i> , 2014, 175, 117-128.	2.0	38
38	CONTEMPORARY EVOLUTION OF SEA URCHIN GAMETE-RECOGNITION PROTEINS: EXPERIMENTAL EVIDENCE OF DENSITY-DEPENDENT GAMETE PERFORMANCE PREDICTS SHIFTS IN ALLELE FREQUENCIES OVER TIME. <i>Evolution</i> ; <i>International Journal of Organic Evolution</i> , 2012, 66, 1722-1736.	2.3	37
39	FERTILIZATION SELECTION ON EGG AND JELLY-COAT SIZE IN THE SAND DOLLAR <i>DENDRASTER EXCENTRICUS</i> . <i>Evolution</i> ; <i>International Journal of Organic Evolution</i> , 2001, 55, 2479-2483.	2.3	32
40	Sperm competition and the evolution of gametic compatibility in externally fertilizing taxa. <i>Molecular Human Reproduction</i> , 2014, 20, 1190-1197.	2.8	31
41	A THEORETICAL INVESTIGATION OF SYMPATRIC EVOLUTION OF TEMPORAL REPRODUCTIVE ISOLATION AS ILLUSTRATED BY MARINE BROADCAST SPAWNERS. <i>Evolution</i> ; <i>International Journal of Organic Evolution</i> , 2007, 61, 2584-2595.	2.3	28
42	The influence of stage-dependent dispersal on the population dynamics of three amphipod species. <i>Oecologia</i> , 2007, 153, 533-541.	2.0	28
43	Influence of Sperm and Phytoplankton on Spawning in the Echinoid <i>Lytechinus variegatus</i> . <i>Biological Bulletin</i> , 2010, 219, 198-206.	1.8	28
44	Inbreeding shapes the evolution of marine invertebrates. <i>Evolution</i> ; <i>International Journal of Organic Evolution</i> , 2020, 74, 871-882.	2.3	27
45	Modeling How Reproductive Ecology Can Drive Protein Diversification and Result in Linkage Disequilibrium between Sperm and Egg Proteins. <i>American Naturalist</i> , 2010, 176, 14-25.	2.1	24
46	Ocean acidification changes the male fitness landscape. <i>Scientific Reports</i> , 2016, 6, 31250.	3.3	24
47	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. <i>American Naturalist</i> , 2018, 191, 88-105.	2.1	23
48	Polymorphic microsatellite loci from the red urchin, <i>Strongylocentrotus franciscanus</i> , with comments on heterozygote deficit. <i>Molecular Ecology Notes</i> , 2004, 4, 226-228.	1.7	20
49	Assortative Mating Drives Linkage Disequilibrium between Sperm and Egg Recognition Protein Loci in the Sea Urchin <i>Strongylocentrotus purpuratus</i> . <i>Molecular Biology and Evolution</i> , 2015, 32, 859-870.	8.9	20
50	Measuring Fertilization Success of Broadcast-Spawning Marine Invertebrates Within Seagrass Meadows. <i>Biological Bulletin</i> , 2011, 220, 32-38.	1.8	11
51	The evolution of gametic compatibility and compatibility groups in the sea urchin <i>Mesocentrotus franciscanus</i> : An avenue for speciation in the sea. <i>Evolution</i> ; <i>International Journal of Organic Evolution</i> , 2019, 73, 1428-1442.	2.3	11
52	SEA URCHIN BINDIN DIVERGENCE PREDICTS GAMETE COMPATIBILITY. <i>Evolution</i> ; <i>International Journal of Organic Evolution</i> , 2005, 59, 2399.	2.3	10
53	Somatic Mutation Is a Function of Clone Size and Depth in <i>Orbicella</i> Reef-Building Corals. <i>Biological Bulletin</i> , 2019, 236, 1-12.	1.8	9
54	Density-Dependent Selection on Gamete Traits in Three Congeneric Sea Urchins. <i>Ecology</i> , 2002, 83, 464.	3.2	6

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55	THE RELATIONSHIP BETWEEN CONSPECIFIC FERTILIZATION SUCCESS AND REPRODUCTIVE ISOLATION AMONG THREE CONGENERIC SEA URCHINS. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 1599.	2.3	5
56	Do Interactions of Cellular Slime Mold Species Regulate their Densities in Soil?. <i>Ecology</i> , 1988, 69, 193-199.	3.2	3
57	Linking photoacclimation responses and microbiome shifts between depth-segregated sibling species of reef corals. <i>Royal Society Open Science</i> , 2022, 9, 211591.	2.4	3
58	FERTILIZATION SELECTION ON EGG AND JELLY-COAT SIZE IN THE SAND DOLLAR <i>DENDRASTER EXCENTRICUS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 2479.	2.3	2
59	Chemoattractant-Mediated Preference of Non-Self Eggs in <i>Ciona robusta</i> Sperm. <i>Biological Bulletin</i> , 2017, 233, 183-189.	1.8	2
60	The Role of Male Variation in Fertilization Success in Determining the Costs and Benefits of Polyandry in the Broadcast Spawning Urchin <i>Lytechinus variegatus</i> . <i>Biological Bulletin</i> , 2018, 235, 63-70.	1.8	2
61	Lessons from the study of plant mating systems for exploring the causes and consequences of inbreeding in marine invertebrates. <i>Marine Biology</i> , 2021, 168, 1.	1.5	1
62	Reply from Grosberg and Levitan. <i>Trends in Ecology and Evolution</i> , 1992, 7, 392-393.	8.7	0