Stephen R Palumbi

List of Publications by Year
in descending order

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139	26,610	12330	11308
papers	citations	69 h-index	136 g-index

148	148	148	20645
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Impacts of Biodiversity Loss on Ocean Ecosystem Services. Science, 2006, 314, 787-790.	12.6	3,422
2	Rebuilding Global Fisheries. Science, 2009, 325, 578-585.	12.6	1,722
3	Coral reefs in the Anthropocene. Nature, 2017, 546, 82-90.	27.8	1,329
4	Genetic Divergence, Reproductive Isolation, and Marine Speciation. Annual Review of Ecology, Evolution, and Systematics, 1994, 25, 547-572.	6.7	1,318
5	Mitochondrial DNA and two perspectives on evolutionary genetics. Biological Journal of the Linnean Society, 1985, 26, 375-400.	1.6	985
6	Marine defaunation: Animal loss in the global ocean. Science, 2015, 347, 1255641.	12.6	933
7	POPULATION GENETICS, DEMOGRAPHIC CONNECTIVITY, AND THE DESIGN OF MARINE RESERVES. , 2003, 13, 146-158.		891
8	Genomic basis for coral resilience to climate change. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1387-1392.	7.1	770
9	Designing marine reserve networks for both conservation and fisheries management. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18286-18293.	7.1	689
10	Mechanisms of reef coral resistance to future climate change. Science, 2014, 344, 895-898.	12.6	684
11	Bacterial community dynamics are linked to patterns of coral heat tolerance. Nature Communications, 2017, 8, 14213.	12.8	529
12	PLUGGING A HOLE IN THE OCEAN: THE EMERGING SCIENCE OF MARINE RESERVES1. , 2003, 13, 3-7.		525
13	Rates of mitochondrial DNA evolution in sharks are slow compared with mammals. Nature, 1992, 357, 153-155.	27.8	488
14	Marine speciation on a small planet. Trends in Ecology and Evolution, 1992, 7, 114-118.	8.7	465
15	Guiding ecological principles for marine spatial planning. Marine Policy, 2010, 34, 955-966.	3.2	435
16	MARINE RESERVES AND OCEAN NEIGHBORHOODS: The Spatial Scale of Marine Populations and Their Management. Annual Review of Environment and Resources, 2004, 29, 31-68.	13.4	430
17	A marine Wallace's line?. Nature, 2000, 406, 692-693.	27.8	347
18	Genetic Structure Among 50 Species of the Northeastern Pacific Rocky Intertidal Community. PLoS ONE, 2010, 5, e8594.	2.5	289

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19	Evolutionary change during experimental ocean acidification. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6937-6942.	7.1	285
20	Metaâ€analysis reveals lower genetic diversity in overfished populations. Molecular Ecology, 2014, 23, 29-39.	3.9	272
21	Whales Before Whaling in the North Atlantic. Science, 2003, 301, 508-510.	12.6	265
22	PREDICTING NUCLEAR GENE COALESCENCE FROM MITOCHONDRIAL DATA: THE THREE-TIMES RULE. Evolution; International Journal of Organic Evolution, 2001, 55, 859.	2.3	255
23	Seascape Genetics: A Coupled Oceanographic-Genetic Model Predicts Population Structure of Caribbean Corals. Current Biology, 2006, 16, 1622-1626.	3.9	255
24	Managing for ocean biodiversity to sustain marine ecosystem services. Frontiers in Ecology and the Environment, 2009, 7, 204-211.	4.0	254
25	Hybridization and the Evolution of Reef Coral Diversity. Science, 2002, 296, 2023-2025.	12.6	252
26	SPECIATION AND POPULATION GENETIC STRUCTURE IN TROPICAL PACIFIC SEA URCHINS. Evolution; International Journal of Organic Evolution, 1997, 51, 1506-1517.	2.3	237
27	Strong genetic clines and geographical variation in gene flow in the rocky intertidal barnacle Balanus glandula. Molecular Ecology, 2004, 13, 2143-2156.	3.9	235
28	The simple fool's guide to population genomics via <scp>RNA</scp>â€Seq: an introduction to highâ€throughput sequencing data analysis. Molecular Ecology Resources, 2012, 12, 1058-1067.	4.8	229
29	Multilocus Adaptation Associated with Heat Resistance in Reef-Building Corals. Current Biology, 2014, 24, 2952-2956.	3.9	216
30	A global invader at home: population structure of the green crab, Carcinus maenas, in Europe. Molecular Ecology, 2004, 13, 2891-2898.	3.9	201
31	Unexpected patterns of fisheries collapse in the world's oceans. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8317-8322.	7.1	198
32	EXTRANUCLEAR DIFFERENTIATION AND GENE FLOW IN THE FINITE ISLAND MODEL. Genetics, 1985, 109, 441-457.	2.9	193
33	What can molecular genetics contribute to marine biogeography? An urchin's tale. Journal of Experimental Marine Biology and Ecology, 1996, 203, 75-92.	1.5	188
34	MITOCHONDRIAL DNA DIVERSITY IN THE SEA URCHINS STRONGYLOCENTROTUS PURPURATUS AND S. DROEBACHIENSIS. Evolution; International Journal of Organic Evolution, 1990, 44, 403-415.	2.3	185
35	COMPARATIVE PHYLOGEOGRAPHY OF THREE CODISTRIBUTED STOMATOPODS: ORIGINS AND TIMING OF REGIONAL LINEAGE DIVERSIFICATION IN THE CORAL TRIANGLE. Evolution; International Journal of Organic Evolution, 2006, 60, 1825-1839.	2.3	170
36	Genomic models predict successful coral adaptation if future ocean warming rates are reduced. Science Advances, 2017, 3, e1701413.	10.3	161

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37	Riskâ€sensitive planning for conserving coral reefs under rapid climate change. Conservation Letters, 2018, 11, e12587.	5.7	151
38	Restricted Gene Flow in the Caribbean Staghorn Coral Acropora cervicornis: Implications for the Recovery of Endangered Reefs. Journal of Heredity, 2006, 98, 40-50.	2.4	149
39	Using naturally occurring climate resilient corals to construct bleaching-resistant nurseries. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10586-10591.	7.1	149
40	Testing the utility of internally transcribed spacer sequences in coral phylogenetics. Molecular Ecology, 2004, 13, 2763-2772.	3.9	148
41	Transcriptomeâ€wide polymorphisms of red abalone (<scp>H</scp>aliotis rufescens) reveal patterns of gene flow and local adaptation. Molecular Ecology, 2013, 22, 2884-2897.	3.9	144
42	Extensive sympatry, cryptic diversity and introgression throughout the geographic distribution of two coral species complexes. Molecular Ecology, 2012, 21, 2224-2238.	3.9	139
43	The role of transcriptome resilience in resistance of corals to bleaching. Molecular Ecology, 2015, 24, 1467-1484.	3.9	137
44	Predicting Responses to Contemporary Environmental Change Using Evolutionary Response Architectures. American Naturalist, 2017, 189, 463-473.	2.1	136
45	DNA evidence for historic population size and past ecosystem impacts of gray whales. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15162-15167.	7.1	135
46	Lineage-Specific Transcriptional Profiles of Symbiodinium spp. Unaltered by Heat Stress in a Coral Host. Molecular Biology and Evolution, 2014, 31, 1343-1352.	8.9	135
47	COLOR PATTERN EVOLUTION, ASSORTATIVE MATING, AND GENETIC DIFFERENTIATION IN BRIGHTLY COLORED BUTTERFLYFISHES (CHAETODONTIDAE). Evolution; International Journal of Organic Evolution, 1999, 53, 247-260.	2.3	126
48	Rapid Acclimation Ability Mediated by Transcriptome Changes in Reef-Building Corals. Genome Biology and Evolution, 2015, 7, 1602-1612.	2.5	126
49	Contrasting genomic shifts underlie parallel phenotypic evolution in response to fishing. Science, 2019, 365, 487-490.	12.6	123
50	Molecular evolution of a portion of the mitochondrial 16S ribosomal gene region in scleractinian corals. Journal of Molecular Evolution, 1997, 45, 397-411.	1.8	113
51	Origins of diverse feeding ecologies within Conus, a genus of venomous marine gastropods. Biological Journal of the Linnean Society, 2001, 73, 391-409.	1.6	113
52	Ecosystems in Action: Lessons from Marine Ecology about Recovery, Resistance, and Reversibility. BioScience, 2008, 58, 33-42.	4.9	110
53	Mechanisms of Thermal Tolerance in Reef-Building Corals across a Fine-Grained Environmental Mosaic: Lessons from Ofu, American Samoa. Frontiers in Marine Science, 2018, 4, .	2.5	110
54	Speciation and Population Genetic Structure in Tropical Pacific Sea Urchins. Evolution; International Journal of Organic Evolution, 1997, 51, 1506.	2.3	109

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55	Protein evolution in two co-occurring types of Symbiodinium: an exploration into the genetic basis of thermal tolerance in Symbiodinium clade D. BMC Evolutionary Biology, 2012, 12, 217.	3.2	108
56	Rapid Rate of Control-Region Evolution in Pacific Butterflyfishes (Chaetodontidae). Journal of Molecular Evolution, 1997, 45, 473-484.	1.8	106
57	POPULATION BIOLOGY OF THE TRANSâ€ARCTIC EXCHANGE: MtDNA SEQUENCE SIMILARITY BETWEEN PACIFIC AND ATLANTIC SEA URCHINS. Evolution; International Journal of Organic Evolution, 1991, 45, 1790-1805.	2.3	104
58	Practical lowâ€coverage genomewide sequencing of hundreds of individually barcoded samples for population and evolutionary genomics in nonmodel species. Molecular Ecology Resources, 2017, 17, 194-208.	4.8	104
59	Coral Bleaching Independent of Photosynthetic Activity. Current Biology, 2013, 23, 1782-1786.	3.9	103
60	Seascape genetics along a steep cline: using genetic patterns to test predictions of marine larval dispersal. Molecular Ecology, 2010, 19, 3692-3707.	3.9	99
61	<scp>SNP</scp> genotyping and population genomics from expressed sequences â€“ current advances and future possibilities. Molecular Ecology, 2015, 24, 2310-2323.	3.9	99
62	REPRODUCTIVE CHARACTER DISPLACEMENT AND THE GENETICS OF GAMETE RECOGNITION IN TROPICAL SEA URCHINS. Evolution; International Journal of Organic Evolution, 2003, 57, 1049-1060.	2.3	98
63	POPULATION GENETIC CONSEQUENCES OF DEVELOPMENTAL EVOLUTION IN SEA URCHINS (GENUS) Tj ETQq1 1 0.784314 rgBT /Ov	2.3	95
64	Open and closed seascapes: Where does habitat patchiness create populations with high fractions of selfâ€recruitment?. Ecological Applications, 2012, 22, 1257-1267.	3.8	92
65	Population Genetic Consequences of Developmental Evolution in Sea Urchins (Genus heliocidaris). Evolution; International Journal of Organic Evolution, 1992, 46, 1299.	2.3	87
66	Recent speciation in the Indoâ€“West Pacific: rapid evolution of gamete recognition and sperm morphology in cryptic species of sea urchin. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 1839-1847.	2.6	86
67	Microevolution in time and space: <scp>SNP</scp> analysis of historical <scp>DNA</scp> reveals dynamic signatures of selection in <scp>A</scp>tlantic cod. Molecular Ecology, 2013, 22, 2424-2440.	3.9	86
68	Early Transcriptional Responses during Heat Stress in the Coral Acropora hyacinthus. Biological Bulletin, 2017, 232, 91-100.	1.8	85
69	Mitochondrial DNA Diversity in the Sea Urchins Strongylocentrotus purpuratus and S. Droebachiensis. Evolution; International Journal of Organic Evolution, 1990, 44, 403.	2.3	77
70	Gene Networks in the Wild: Identifying Transcriptional Modules that Mediate Coral Resistance to Experimental Heat Stress. Genome Biology and Evolution, 2016, 8, 243-252.	2.5	73
71	USING ISOLATION BY DISTANCE AND EFFECTIVE DENSITY TO ESTIMATE DISPERSAL SCALES IN ANEMONEFISH. Evolution; International Journal of Organic Evolution, 2010, 64, 2688-2700.	2.3	72
72	Endemism and evolution in Hawaiian marine invertebrates. Trends in Ecology and Evolution, 1987, 2, 183-186.	8.7	71

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73	Designing Marine Reserve Networks Why Small, Isolated Protected Areas Are Not Enough. Conservation, 2001, 2, 10-17.	0.1	71
74	Tidal heat pulses on a reef trigger a fine-tuned transcriptional response in corals to maintain homeostasis. Science Advances, 2017, 3, e1601298.	10.3	70
75	Rates of molecular evolution and the fraction of nucleotide positions free to vary. Journal of Molecular Evolution, 1989, 29, 180-187.	1.8	69
76	THE USE OF GENETIC CLINES TO ESTIMATE DISPERSAL DISTANCES OF MARINE LARVAE. Ecology, 2006, 87, 1094-1103.	3.2	64
77	Gene expression and feeding ecology: evolution of piscivory in the venomous gastropod genus Conus. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 1165-1174.	2.6	63
78	CONSPECIFIC SPERM PRECEDENCE IN TWO SPECIES OF TROPICAL SEA URCHINS. Evolution; International Journal of Organic Evolution, 2005, 59, 97-105.	2.3	63
79	Transcriptomic responses to seawater acidification among sea urchin populations inhabiting a natural pH mosaic. Molecular Ecology, 2017, 26, 2257-2275.	3.9	62
80	Pre-Whaling Genetic Diversity and Population Ecology in Eastern Pacific Gray Whales: Insights from Ancient DNA and Stable Isotopes. PLoS ONE, 2012, 7, e35039.	2.5	61
81	Polygenic evolution drives species divergence and climate adaptation in corals. Evolution; International Journal of Organic Evolution, 2018, 72, 82-94.	2.3	61
82	Management for network diversity speeds evolutionary adaptation to climate change. Nature Climate Change, 2019, 9, 632-636.	18.8	59
83	New wave: high-tech tools to help marine reserve research. Frontiers in Ecology and the Environment, 2003, 1, 73-79.	4.0	58
84	DIFFERENCES IN THE REGULATION OF GROWTH AND BIOMINERALIZATION GENES REVEALED THROUGH LONG-TERM COMMON-GARDEN ACCLIMATION AND EXPERIMENTAL GENOMICS IN THE PURPLE SEA URCHIN. Evolution; International Journal of Organic Evolution, 2013, 67, 1901-1914.	2.3	58
85	Evolutionary animation: How do molecular phylogenies compare to Mayr's reconstruction of speciation patterns in the sea?. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6566-6572.	7.1	57
86	Signals of selection in outlier loci in a widely dispersing species across an environmental mosaic. Molecular Ecology, 2013, 22, 3580-3597.	3.9	56
87	Transcriptome predictors of coral survival and growth in a highly variable environment. Ecology and Evolution, 2017, 7, 4794-4803.	1.9	55
88	The genomics of recovery from coral bleaching. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171790.	2.6	54
89	Population Genetic Structure of the Armorhead, Pseudopentaceros wheeleri, in the North Pacific Ocean: Application of the Polymerase Chain Reaction to Fisheries problems. Canadian Journal of Fisheries and Aquatic Sciences, 1992, 49, 2386-2391.	1.4	52
90	Genome-wide polymorphisms show unexpected targets of natural selection. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1412-1420.	2.6	47

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91	Population Biology of the Trans-Arctic Exchange: MtDNA Sequence Similarity between Pacific and Atlantic Sea Urchins. Evolution; International Journal of Organic Evolution, 1991, 45, 1790.	2.3	44
92	ECOLOGY: Enhanced: Why Gobies Are Like Hobbits. Science, 2003, 299, 51-52.	12.6	44
93	The accuracy of heterozygous base calling from diploid sequence and resolution of haplotypes using allele-specific sequencing. Molecular Ecology, 1999, 8, 1750-1752.	3.9	42
94	Forensic genomics as a novel tool for identifying the causes of mass mortality events. Nature Communications, 2014, 5, 3652.	12.8	42
95	Marine reserves help preserve genetic diversity after impacts derived from climate variability: Lessons from the pink abalone in Baja California. Global Ecology and Conservation, 2015, 4, 264-276.	2.1	42
96	Transcriptomic resilience, symbiont shuffling, and vulnerability to recurrent bleaching in reefâ€building corals. Molecular Ecology, 2019, 28, 3371-3382.	3.9	42
97	Genetic tracking of a protected whale. Nature, 1999, 397, 307-308.	27.8	40
98	Highly localized divergence within supergenes in Atlantic cod (Gadus morhua) within the Gulf of Maine. BMC Genomics, 2017, 18, 271.	2.8	40
99	Widespread variation in heat tolerance and symbiont load are associated with growth tradeoffs in the coral Acropora hyacinthus in Palau. ELife, 2021, 10, .	6.0	40
100	Evolution and connectivity influence the persistence and recovery of coral reefs under climate change in the Caribbean, Southwest Pacific, and Coral Triangle. Global Change Biology, 2021, 27, 4307-4321.	9.5	39
101	Life history, ecology and the biogeography of strong genetic breaks among 15 species of Pacific rockfish, Sebastes. Marine Biology, 2010, 157, 1433-1452.	1.5	38
102	Comparing Evolutionary Patterns and Variability in the Mitochondrial Control Region and Cytochrome b in Three Species of Baleen Whales. Journal of Molecular Evolution, 2009, 68, 97-111.	1.8	37
103	Comparative phylogeography of three codistributed stomatopods: origins and timing of regional lineage diversification in the Coral Triangle. Evolution; International Journal of Organic Evolution, 2006, 60, 1825-39.	2.3	36
104	The tip of the tail: molecular identification of seahorses for sale in apothecary shops and curio stores in California. Conservation Genetics, 2008, 9, 65-71.	1.5	33
105	Long-term population size of the North Atlantic humpback whale within the context of worldwide population structure. Conservation Genetics, 2013, 14, 103-114.	1.5	32
106	Accurate population genetic measurements require cryptic species identification in corals. Coral Reefs, 2018, 37, 549-563.	2.2	32
107	Population Structure, Molecular Systematics, and Forensic Identification of Whales and Dolphins. , 1996, , 10-49.		32
108	The prodigal fish. Nature, 1999, 402, 733-735.	27.8	30

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109	Transcriptome-wide Changes in Coral Gene Expression at Noon and Midnight Under Field Conditions. Biological Bulletin, 2015, 228, 227-241.	1.8	30
110	PREDICTING NUCLEAR GENE COALESCENCE FROM MITOCHONDRIAL DATA: THE THREE-TIMES RULE. Evolution; International Journal of Organic Evolution, 2001, 55, 859-868.	2.3	29
111	The role of genes in understanding the evolutionary ecology of reef building corals. Evolutionary Ecology, 2012, 26, 317-335.	1.2	28
112	Restriction Site Tiling Analysis: accurate discovery and quantitative genotyping of genome-wide polymorphisms using nucleotide arrays. Genome Biology, 2010, 11, R44.	9.6	27
113	Ocean acidification causes variable traitâ€shifts in a coral species. Global Change Biology, 2020, 26, 6813-6830.	9.5	27
114	A roadmap to integrating resilience into the practice of coral reef restoration. Global Change Biology, 2022, 28, 4751-4764.	9.5	27
115	Calcifying algae maintain settlement cues to larval abalone following algal exposure to extreme ocean acidification. Scientific Reports, 2017, 7, 5774.	3.3	26
116	Long-term growth rates and effects of bleaching in Acropora hyacinthus. Coral Reefs, 2018, 37, 267-277.	2.2	26
117	The cell specificity of gene expression in the response to heat stress in corals. Journal of Experimental Biology, 2017, 220, 1837-1845.	1.7	23
118	Intraspecific Genetic Diversity in the Marine Shrimp Penaeus vannamei: Multiple Polymorphic Elongation Factor-1Î± Loci Revealed by Intron Sequencing. Marine Biotechnology, 1999, 1, 261-268.	2.4	20
119	Translational environmental biology: cell biology informing conservation. Trends in Cell Biology, 2014, 24, 265-267.	7.9	20
120	Genomic analysis of distinct bleaching tolerances among cryptic coral species. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210678.	2.6	20
121	Marine Reserves: The Best Option for Our Oceans?. Frontiers in Ecology and the Environment, 2003, 1, 495.	4.0	19
122	Are Antarctic minke whales unusually abundant because of 20th century whaling?. Molecular Ecology, 2010, 19, 281-291.	3.9	19
123	Testing smallâ€scale ecological gradients and intraspecific differentiation for hundreds of kelp forest species using haplotypes from metabarcoding. Molecular Ecology, 2021, 30, 3355-3373.	3.9	19
124	Populations of Symbiodinium muscatinei Show Strong Biogeographic Structuring in the Intertidal Anemone Anthopleura elegantissima. Biological Bulletin, 2011, 220, 199-208.	1.8	18
125	Ocean acidification research in the â€˜post-genomicâ€™ era: Roadmaps from the purple sea urchin Strongylocentrotus purpuratus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 185, 33-42.	1.8	18
126	Somatic Mutations and Genome Stability Maintenance in Clonal Coral Colonies. Molecular Biology and Evolution, 2020, 37, 828-838.	8.9	16

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127	Spatially varying selection between habitats drives physiological shifts and local adaptation in a broadcast spawning coral on a remote atoll in Western Australia. Science Advances, 2022, 8, eabl9185.	10.3	15
128	Mitochondrial and Nuclear Genetic Variation across Calving Lagoons in Eastern North Pacific Gray Whales (Eschrichtius robustus). Journal of Heredity, 2008, 100, 34-46.	2.4	12
129	Dispersal at a Snailâ€™s Pace: Historical Processes Affect Contemporary Genetic Structure in the Exploited Wavy Top Snail (Megastraea undosa). Journal of Heredity, 2013, 104, 327-340.	2.4	12
130	Rapid Adaptation to Temperature via a Potential Genomic Island of Divergence in the Invasive Green Crab, Carcinus maenas. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	12
131	A Scientific Synthesis of Marine Protected Areas in the United States: Status and Recommendations. Frontiers in Marine Science, 2022, 9, .	2.5	10
132	Origins of diverse feeding ecologies within Conus, a genus of venomous marine gastropods. Biological Journal of the Linnean Society, 2001, 73, 391-409.	1.6	9
133	Assessing the potential for demographic restoration and assisted evolution to build climate resilience in coral reefs. Ecological Applications, 2022, 32, e2650.	3.8	9
134	CONSPECIFIC SPERM PRECEDENCE IN TWO SPECIES OF TROPICAL SEA URCHINS. Evolution; International Journal of Organic Evolution, 2005, 59, 97.	2.3	5
135	Generalâ€use polymerase chain reaction primers for amplification and direct sequencing of enolase, a singleâ€copy nuclear gene, from different animal phyla. Molecular Ecology Resources, 2009, 9, 144-147.	4.8	5
136	From coral reefs to Joshua trees: What ecological interactions teach us about the adaptive capacity of biodiversity in the Anthropocene. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, .	4.0	4
137	A star is born. Nature, 1997, 390, 556-557.	27.8	3
138	POPULATION GENETICS, DEMOGRAPHIC CONNECTIVITY, AND THE DESIGN OF MARINE RESERVES. , 2003, 13, 146.		3
139	COMPARATIVE PHYLOGEOGRAPHY OF THREE CODISTRIBUTED STOMATOPODS: ORIGINS AND TIMING OF REGIONAL LINEAGE DIVERSIFICATION IN THE CORAL TRIANGLE. Evolution; International Journal of Organic Evolution, 2006, 60, 1825.	2.3	2