

James A Estes

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51 papers	8,760 citations	31 h-index	51 g-index
51 ext. papers	10,244 ext. citations	9.7 avg, IF	5.68 L-index

#	Paper	IF	Citations
51	Trophic downgrading of planet Earth. <i>Science</i> , 2011 , 333, 301-6	33.3	2365
50	Status and ecological effects of the world's largest carnivores. <i>Science</i> , 2014 , 343, 1241-484	33.3	1711
49	Marine defaunation: animal loss in the global ocean. <i>Science</i> , 2015 , 347, 1255-641	33.3	653
48	Sea Otters and Kelp Forests in Alaska: Generality and Variation in a Community Ecological Paradigm. <i>Ecological Monographs</i> , 1995 , 65, 75-100	9	498
47	Global patterns of kelp forest change over the past half-century. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13785-13790	11.5	304
46	Ecological Effectiveness: Conservation Goals for Interactive Species. <i>Conservation Biology</i> , 2003 , 17, 1238-1250289		
45	Food limitation leads to behavioral diversification and dietary specialization in sea otters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 560-5	11.5	279
44	Using stable isotopes to investigate individual diet specialization in California sea otters (<i>Enhydra lutris nereis</i>). <i>Ecology</i> , 2009 , 90, 961-74	4.6	229
43	Whales as marine ecosystem engineers. <i>Frontiers in Ecology and the Environment</i> , 2014 , 12, 377-385	5.5	211
42	KILLER APPETITES: ASSESSING THE ROLE OF PREDATORS IN ECOLOGICAL COMMUNITIES. <i>Ecology</i> , 2004 , 85, 3373-3384	4.6	178
41	Predation, herbivory, and kelp evolution. <i>Paleobiology</i> , 1988 , 14, 19-36	2.6	169
40	AN INTRODUCED PREDATOR ALTERS ALEUTIAN ISLAND PLANT COMMUNITIES BY THWARTING NUTRIENT SUBSIDIES. <i>Ecological Monographs</i> , 2006 , 76, 3-24	9	149
39	What is a Trophic Cascade?. <i>Trends in Ecology and Evolution</i> , 2016 , 31, 842-849	10.9	143
38	Structure and mechanism of diet specialisation: testing models of individual variation in resource use with sea otters. <i>Ecology Letters</i> , 2012 , 15, 475-83	10	124
37	Animating the Carbon Cycle. <i>Ecosystems</i> , 2014 , 17, 344-359	3.9	123
36	Stability, resilience, and phase shifts in rocky subtidal communities along the west coast of Vancouver Island, Canada. <i>Ecological Monographs</i> , 2011 , 81, 215-239	9	114
35	Principles for managing marine ecosystems prone to tipping points. <i>Ecosystem Health and Sustainability</i> , 2015 , 1, 1-18	3.7	110

34	Do trophic cascades affect the storage and flux of atmospheric carbon? An analysis of sea otters and kelp forests. <i>Frontiers in Ecology and the Environment</i> , 2012 , 10, 409-415	5.5	108
33	Growth and Equilibrium in Sea Otter Populations. <i>Journal of Animal Ecology</i> , 1990 , 59, 385	4.7	100
32	Megafaunal Impacts on Structure and Function of Ocean Ecosystems. <i>Annual Review of Environment and Resources</i> , 2016 , 41, 83-116	17.2	93
31	SEA OTTER POPULATION DECLINES IN THE ALEUTIAN ARCHIPELAGO. <i>Journal of Mammalogy</i> , 2003 , 84, 55-64	1.8	87
30	Activity and Prey Election in the Sea Otter: Influence of Population Status on Community Structure. <i>American Naturalist</i> , 1982 , 120, 242-258	3.7	67
29	Life history plasticity and population regulation in sea otters. <i>Oikos</i> , 2000 , 90, 457-468	4	63
28	Characterizing Species Interactions to Understand Press Perturbations: What Is the Community Matrix?. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2016 , 47, 409-432	13.5	55
27	Historical and potential future importance of large whales as food for polar bears. <i>Frontiers in Ecology and the Environment</i> , 2018 , 16, 515-524	5.5	54
26	Incorporating diverse data and realistic complexity into demographic estimation procedures for sea otters 2006 , 16, 2293-312		51
25	Using ecological function to develop recovery criteria for depleted species: sea otters and kelp forests in the Aleutian archipelago. <i>Conservation Biology</i> , 2010 , 24, 852-60	6	50
24	Using demography and movement behavior to predict range expansion of the southern sea otter 2008 , 18, 1781-94		50
23	Clinical pathology and assessment of pathogen exposure in southern and Alaskan sea otters. <i>Journal of Wildlife Diseases</i> , 2003 , 39, 837-50	1.3	50
22	Sea otters, kelp forests, and the extinction of Steller's sea cow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 880-5	11.5	38
21	Predicting and detecting reciprocity between indirect ecological interactions and evolution. <i>American Naturalist</i> , 2013 , 181 Suppl 1, S76-99	3.7	31
20	Gene transcription in sea otters (<i>Enhydra lutris</i>); development of a diagnostic tool for sea otter and ecosystem health. <i>Molecular Ecology Resources</i> , 2012 , 12, 67-74	8.4	30
19	Evolution of large body size in abalones (<i>Haliotis</i>): patterns and implications. <i>Paleobiology</i> , 2005 , 31, 591-606	6.6	29
18	MORTALITY SENSITIVITY IN LIFE-STAGE SIMULATION ANALYSIS: A CASE STUDY OF SOUTHERN SEA OTTERS 2004 , 14, 1554-1565		28
17	Comparison of organochlorine contaminants among sea otter (<i>Enhydra lutris</i>) populations in California and Alaska. <i>Environmental Toxicology and Chemistry</i> , 1999 , 18, 452-458	3.8	28

16	Biological interactions maintain the boundaries between kelp forests and urchin barrens in the Aleutian Archipelago. <i>Hydrobiologia</i> , 2014 , 724, 91-107	2.4	20
15	Keystone predators govern the pathway and pace of climate impacts in a subarctic marine ecosystem. <i>Science</i> , 2020 , 369, 1351-1354	33.3	17
14	Persistent organic pollutants in the blood of free-ranging sea otters (<i>Enhydra lutris</i> ssp.) in Alaska and California. <i>Journal of Wildlife Diseases</i> , 2010 , 46, 1214-33	1.3	12
13	Organochlorine contaminants in fishes from coastal waters west of Amukta Pass, Aleutian Islands, Alaska, USA. <i>Environmental Toxicology and Chemistry</i> , 2009 , 28, 1643-54	3.8	9
12	Managing for extinction? Conflicting conservation objectives in a large marine reserve. <i>Conservation Letters</i> , 2011 , 4, 417-422	6.9	9
11	Size, growth, and density data for shallow-water sea urchins from Mexico to the Aleutian Islands, Alaska, 1956-2016. <i>Ecology</i> , 2018 , 99, 761	4.6	8
10	Organochlorine contaminants in coastal marine ecosystems of southern Alaska: inferences from spatial patterns in blue mussels (<i>Mytilus trossulus</i>). <i>Chemosphere</i> , 2012 , 88, 873-80	8.4	7
9	Physical disturbance by recovering sea otter populations increases eelgrass genetic diversity. <i>Science</i> , 2021 , 374, 333-336	33.3	6
8	Costs and benefits of living with predators. <i>Science</i> , 2020 , 368, 1178-1180	33.3	3
7	Salmon, seabirds, and ecosystem dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6534-5	11.5	3
6	Indices Used to Assess Status of Sea Otter Populations: A Reply. <i>Journal of Wildlife Management</i> , 1990 , 54, 270	1.9	3
5	A keystone ecologist: Robert Treat Paine, 1933-2016. <i>Ecology</i> , 2016 , 97, 2905-2909	4.6	1
4	Sea otter population collapse in southwest Alaska: assessing ecological covariates, consequences, and causal factors. <i>Ecological Monographs</i> , e01472	9	1
3	Robert Treat Paine III (1933-2016). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6881-6882	11.5	0
2	Southeast Alaskan kelp forests: inferences of process from large-scale patterns of variation in space and time.. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022 , 289, 20211697	4.4	0
1	Genomic basis for skin phenotype and cold adaptation in the extinct Steller's sea cow.. <i>Science Advances</i> , 2022 , 8, eabl6496	14.3	0