

# David A Demer

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,918  
citations

257450

24  
h-index

265206

42  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1355  
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrated approach to the foraging ecology of marine birds and mammals. Deep-Sea Research Part II: Topical Studies in Oceanography, 1998, 45, 1353-1371.	1.4	177
2	Variations in the biomass of Antarctic krill ( <i>Euphausia superba</i> ) around the South Shetland Islands, 1996-2006. ICES Journal of Marine Science, 2008, 65, 497-508.	2.5	129
3	New target-strength model indicates more krill in the Southern Ocean. ICES Journal of Marine Science, 2005, 62, 25-32.	2.5	100
4	An 8-year cycle in krill biomass density inferred from acoustic surveys conducted in the vicinity of the South Shetland Islands during the austral summers of 1991-1992 through 2001-2002. Aquatic Living Resources, 2003, 16, 205-213.	1.2	86
5	Predicting habitat to optimize sampling of Pacific sardine ( <i>Sardinops sagax</i> ). ICES Journal of Marine Science, 2011, 68, 867-879.	2.5	82
6	A cold oceanographic regime with high exploitation rates in the Northeast Pacific forecasts a collapse of the sardine stock. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4175-4180.	7.1	77
7	Bias in acoustic biomass estimates of <i>Euphausia superba</i> due to diel vertical migration. Deep-Sea Research Part I: Oceanographic Research Papers, 1995, 42, 455-475.	1.4	76
8	A multiple-frequency method for potentially improving the accuracy and precision of in situ target strength measurements. Journal of the Acoustical Society of America, 1999, 105, 2359-2376.	1.1	65
9	Improved parameterization of the SDWBA for estimating krill target strength. ICES Journal of Marine Science, 2006, 63, 928-935.	2.5	64
10	Comparisons among ten models of acoustic backscattering used in aquatic ecosystem research. Journal of the Acoustical Society of America, 2015, 138, 3742-3764.	1.1	60
11	The use of acoustic sampling to estimate the dispersion and abundance of euphausiids, with an emphasis on Antarctic krill, <i>Euphausia superba</i> . Fisheries Research, 2000, 47, 215-229.	1.7	57
12	Validation of the stochastic distorted-wave Born approximation model with broad bandwidth total target strength measurements of Antarctic krill. ICES Journal of Marine Science, 2003, 60, 625-635.	2.5	54
13	Reconciling theoretical versus empirical target strengths of krill: effects of phase variability on the distorted-wave Born approximation. ICES Journal of Marine Science, 2003, 60, 429-434.	2.5	53
14	An estimate of error for the CCAMLR 2000 survey estimate of krill biomass. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 1237-1251.	1.4	53
15	Acoustical monitoring of fish density, behavior, and growth rate in a tank. Aquaculture, 2006, 251, 314-323.	3.5	45
16	Estimating fish abundance at spawning aggregations from courtship sound levels. Scientific Reports, 2017, 7, 3340.	3.3	43
17	Scale-dependent spatial variance patterns and correlations of seabirds and prey in the southeastern Bering Sea as revealed by spectral analysis. Ecography, 1998, 21, 212-223.	4.5	41
18	Zooplankton target strength: Volumetric or areal dependence?. Journal of the Acoustical Society of America, 1995, 98, 1111-1118.	1.1	40

#	ARTICLE	IF	CITATIONS
19	Rockfish sounds and their potential use for population monitoring in the Southern California Bight. ICES Journal of Marine Science, 2009, 66, 981-990.	2.5	40
20	Krill abundance. Nature, 1991, 353, 310-310.	27.8	37
21	Environmental and parental control of Pacific sardine ( <i>Sardinops sagax</i> ) recruitment. ICES Journal of Marine Science, 2014, 71, 2198-2207.	2.5	32
22	Accounting for scattering directivity and fish behaviour in multibeam-echosounder surveys. ICES Journal of Marine Science, 2007, 64, 1664-1674.	2.5	29
23	Three-dimensional observations of swarms of Antarctic krill ( <i>Euphausia superba</i> ) made using a multi-beam echosounder. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 508-518.	1.4	29
24	A statistical-spectral method for echo classification. ICES Journal of Marine Science, 2009, 66, 1081-1090.	2.5	26
25	The acoustic identification and enumeration of scyphozoan jellyfish, prey for leatherback sea turtles ( <i>Dermochelys coriacea</i> ), off central California. ICES Journal of Marine Science, 2010, 67, 1739-1748.	2.5	25
26	Sounds of Captive Rockfishes. Copeia, 2009, 2009, 502-509.	1.3	24
27	Wide-bandwidth acoustical characterization of anchovy and sardine from reverberation measurements in an echoic tank. ICES Journal of Marine Science, 2003, 60, 617-624.	2.5	23
28	Submesoscale distribution of Antarctic krill and its avian and pinniped predators before and after a near gale. Marine Biology, 2009, 156, 479-491.	1.5	21
29	Abundance and distribution of Antarctic krill ( <i>Euphausia superba</i> ) nearshore of Cape Shirreff, Livingston Island, Antarctica, during six austral summers between 2000 and 2007. Canadian Journal of Fisheries and Aquatic Sciences, 2010, 67, 1159-1170.	1.4	21
30	An improved multiple-frequency method for measuring in situ target strengths. ICES Journal of Marine Science, 2005, 62, 1636-1646.	2.5	20
31	Estimating the Density of Antarctic Krill ( <i>Euphausia Superba</i> ) from Multi-Beam Echo-Sounder Observations Using Distance Sampling Methods. Journal of the Royal Statistical Society Series C: Applied Statistics, 2011, 60, 301-316.	1.0	20
32	Target strength of skipjack tuna ( <i>Katsuwonus pelamis</i> ) associated with fish aggregating devices (FADs). ICES Journal of Marine Science, 2018, 75, 1790-1802.	2.5	20
33	Broad-bandwidth, sound scattering, and absorption from krill ( <i>Meganyctiphanes norvegica</i> ), mysids ( <i>Praunus flexuosus</i> and <i>Neomysis integer</i> ), and shrimp ( <i>Crangon crangon</i> ). ICES Journal of Marine Science, 2005, 62, 956-965.	2.5	19
34	Corroboration and refinement of a method for differentiating landings from two stocks of Pacific sardine ( <i>Sardinops sagax</i> ) in the California Current. ICES Journal of Marine Science, 2014, 71, 328-335.	2.5	19
35	Lateral target strength of Antarctic krill. ICES Journal of Marine Science, 1996, 53, 297-302.	2.5	18
36	Variations in echosounder transducer performance with water temperature. ICES Journal of Marine Science, 2008, 65, 1021-1035.	2.5	18

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37	Absolute measurements of total target strength from reverberation in a cavity. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 1387-1394.	1.1	16
38	Detection and characterization of yellowfin and bluefin tuna using passive-acoustical techniques. <i>Fisheries Research</i> , 2003, 63, 393-403.	1.7	14
39	Validation of the stochastic distorted-wave Born approximation model with broad bandwidth total target strength measurements of Antarctic krill. <i>ICES Journal of Marine Science</i> , 2004, 61, 155-156.	2.5	14
40	Re-evaluation of the environmental dependence of Pacific sardine recruitment. <i>Fisheries Research</i> , 2019, 216, 120-125.	1.7	14
41	Measurement of the scattering and absorption cross sections of the human body. <i>Applied Physics Letters</i> , 2004, 84, 819-821.	3.3	13
42	Seabed classification using surface backscattering strength versus acoustic frequency and incidence angle measured with vertical, split-beam echosounders. <i>ICES Journal of Marine Science</i> , 2014, 71, 882-894.	2.5	12
43	Modelling three-dimensional directivity of sound scattering by Antarctic krill: progress towards biomass estimation using multibeam sonar. <i>ICES Journal of Marine Science</i> , 2009, 66, 1245-1251.	2.5	10
44	Sampling selectivity in acoustic-trawl surveys of Pacific sardine ( <i>Sardinops sagax</i> ) biomass and length distribution. <i>ICES Journal of Marine Science</i> , 2013, 70, 1369-1377.	2.5	10
45	An introduction to the proceedings and a synthesis of the 2008 ICES Symposium on the Ecosystem Approach with Fisheries Acoustics and Complementary Technologies (SEAFACETS). <i>ICES Journal of Marine Science</i> , 2009, 66, 961-965.	2.5	9
46	A comparison of bathymetry mapped with the Simrad ME70 multibeam echosounder operated in bathymetric and fisheries modes. <i>ICES Journal of Marine Science</i> , 2010, 67, 1301-1309.	2.5	8
47	Reconciling theoretical versus empirical target strengths of krill: effects of phase variability on the distorted-wave Born approximation. <i>ICES Journal of Marine Science</i> , 2004, 61, 157-158.	2.5	7
48	Characterization of scatterer motion in a reverberant medium. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 769.	1.1	7
49	Multifrequency Biplanar Interferometric Imaging. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2010, 7, 171-175.	3.1	7
50	Two-Million-Liter Tank Expands the Boundaries of Marine Technology Innovation: National Resource Available for Advancing Marine Science. <i>Marine Technology Society Journal</i> , 2015, 49, 87-98.	0.4	7
51	Optimizing transmit interval and logging range while avoiding aliased seabed echoes. <i>ICES Journal of Marine Science</i> , 2016, 73, 1955-1964.	2.5	7
52	Optimizing Fishing Quotas to Meet Target Fishing Fractions of an Internationally Exploited Stock of Pacific Sardine. <i>North American Journal of Fisheries Management</i> , 2014, 34, 1119-1130.	1.0	6
53	Measurements of natural mortality for Pacific sardine ( <i>Sardinops sagax</i> ). <i>ICES Journal of Marine Science</i> , 2013, 70, 1408-1415.	2.5	5
54	Sound-scattering spectra of steelhead ( <i>Oncorhynchus mykiss</i> ), coho ( <i>O. kisutch</i> ), and Chinook ( <i>O.</i> )	2.5	5

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55	Remote sensing of habitat characteristics using echo metrics and image-based seabed classes. ICES Journal of Marine Science, 2016, 73, 1965-1974.	2.5	2
56	Effects of sphere suspension on echosounder calibrations. ICES Journal of Marine Science, 2020, 77, 2945-2953.	2.5	2
57	Improving the estimations of transect length and width for underwater visual surveys of targets on or near the seabed. ICES Journal of Marine Science, 2016, 73, 2729-2736.	2.5	1
58	Length conversions and mass-length relationships of five forage fish species in the California current ecosystem. Journal of Fish Biology, 2019, 95, 1116-1124.	1.6	1
59	Target Strength Measurements of Live Golden Cuttlefish <i>Sepia esculenta</i> at 70 and 120 kHz. Fisheries and Aquatic Sciences, 2014, 17, 361-367.	0.8	1
60	A Method to Consistently Approach the Target Total Fishing Fraction of Pacific Sardine and Other Internationally Exploited Fish Stocks. North American Journal of Fisheries Management, 2017, 37, 284-293.	1.0	0