

# Alastair Grant

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

7,659  
citations

101543

36  
h-index

54911

84  
g-index

101  
all docs

101  
docs citations

101  
times ranked

9335  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Term Region-Wide Declines in Caribbean Corals. <i>Science</i> , 2003, 301, 958-960.	12.6	1,747
2	Phytochromes function as thermosensors in <i>Arabidopsis</i> . <i>Science</i> , 2016, 354, 886-889.	12.6	694
3	Comparative metatranscriptomics reveals kingdom level changes in the rhizosphere microbiome of plants. <i>ISME Journal</i> , 2013, 7, 2248-2258.	9.8	468
4	HURRICANES AND CARIBBEAN CORAL REEFS: IMPACTS, RECOVERY PATTERNS, AND ROLE IN LONG-TERM DECLINE. <i>Ecology</i> , 2005, 86, 174-184.	3.2	311
5	Stability and succession of the rhizosphere microbiota depends upon plant type and soil composition. <i>ISME Journal</i> , 2015, 9, 2349-2359.	9.8	302
6	Elasticity analysis as an important tool in evolutionary and population ecology. <i>Trends in Ecology and Evolution</i> , 1999, 14, 467-471.	8.7	255
7	ELF3 Controls Thermoresponsive Growth in <i>Arabidopsis</i> . <i>Current Biology</i> , 2015, 25, 194-199.	3.9	225
8	Methods of assessing extinction risk in marine fishes. <i>Fish and Fisheries</i> , 2004, 5, 255-276.	5.3	200
9	An assessment of metal contamination of sediments in the humber estuary, U.K.. <i>Estuarine, Coastal and Shelf Science</i> , 1990, 31, 71-85.	2.1	155
10	How to Keep Fit in the Real World: Elasticity Analyses and Selection Pressures on Life Histories in a Variable Environment. <i>American Naturalist</i> , 1996, 147, 115-139.	2.1	146
11	Assessment of the phase selectivity of the European Community Bureau of Reference (BCR) sequential extraction procedure for metals in sediment. <i>Analytica Chimica Acta</i> , 1994, 291, 287-295.	5.4	141
12	Does managed coastal realignment create saltmarshes with "equivalent biological characteristics" to natural reference sites?. <i>Journal of Applied Ecology</i> , 2012, 49, 1446-1456.	4.0	136
13	Life history correlates of density-dependent recruitment in marine fishes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006, 63, 494-509.	1.4	132
14	ELASTICITY ANALYSIS FOR DENSITY-DEPENDENT POPULATIONS IN STOCHASTIC ENVIRONMENTS. <i>Ecology</i> , 2000, 81, 680-693.	3.2	131
15	Colonization of a newly developing salt marsh: disentangling independent effects of elevation and redox potential on halophytes. <i>Journal of Ecology</i> , 2011, 99, 1350-1357.	4.0	128
16	CHLOROPHYLL a FLUORESCENCE AS A BIOMARKER FOR RAPID TOXICITY ASSESSMENT. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 1520.	4.3	107
17	Modelling the effects of climate change on the distribution and production of marine fishes: accounting for trophic interactions in a dynamic bioclimate envelope model. <i>Global Change Biology</i> , 2013, 19, 2596-2607.	9.5	106
18	Toxicity of sediments from around a North Sea oil platform: are metals or hydrocarbons responsible for ecological impacts?. <i>Marine Environmental Research</i> , 2002, 53, 95-116.	2.5	102

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19	Mapping the ecological impact of heavy metals on the estuarine polychaete <i>Nereis diversicolor</i> using inherited metal tolerance. <i>Marine Pollution Bulletin</i> , 1989, 20, 235-238.	5.0	99
20	Does environmental stochasticity matter? Analysis of red deer life-histories on Rum. <i>Evolutionary Ecology</i> , 1995, 9, 559-574.	1.2	96
21	Assessing the impact of copper on nematode communities from a chronically metal-enriched estuary using pollution-induced community tolerance. <i>Marine Pollution Bulletin</i> , 1995, 30, 701-706.	5.0	92
22	Comparison of threat and exploitation status in North-East Atlantic marine populations. <i>Journal of Applied Ecology</i> , 2005, 42, 883-891.	4.0	84
23	Incentivising selective fishing under a policy to ban discards; lessons from European and global fisheries. <i>Marine Policy</i> , 2014, 45, 287-292.	3.2	80
24	Population consequences of chronic toxicity: incorporating density dependence into the analysis of life table response experiments. <i>Ecological Modelling</i> , 1998, 105, 325-335.	2.5	71
25	Seasonal shift in timing of vernalization as an adaptation to extreme winter. <i>ELife</i> , 2015, 4, .	6.0	70
26	n-Alkane biosynthetic hydrogen isotope fractionation is not constant throughout the growing season in the riparian tree <i>Salix viminalis</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2015, 165, 75-85.	3.9	68
27	Pollution-induced tolerance to copper of nematode communities in the severely contaminated restronguet creek and adjacent estuaries, Cornwall, United Kingdom. <i>Environmental Toxicology and Chemistry</i> , 2000, 19, 454-461.	4.3	64
28	The survival of skates ( <i>Rajidae</i> ) caught by demersal trawlers fishing in UK waters. <i>Fisheries Research</i> , 2009, 97, 72-76.	1.7	64
29	Toxicity of Polycyclic Aromatic Hydrocarbons to the Nematode <i>Caenorhabditis elegans</i> . <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2009, 72, 1168-1180.	2.3	51
30	OPTIMAL REPRODUCTIVE EFFORT IN STOCHASTIC, DENSITY-DEPENDENT ENVIRONMENTS. <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 677-688.	2.3	50
31	A rapid resazurin bioassay for assessing the toxicity of fungicides. <i>Chemosphere</i> , 2009, 74, 1165-1170.	8.2	50
32	Constraints on Salt Marsh Development Following Managed Coastal Realignment: Dispersal Limitation or Environmental Tolerance?. <i>Restoration Ecology</i> , 2012, 20, 65-75.	2.9	49
33	Linking pollution induced community tolerance (PICT) and microbial community structure in chronically metal polluted estuarine sediments. <i>Marine Environmental Research</i> , 2008, 65, 187-198.	2.5	46
34	Marine Benthic Vegetation: Recent Changes and the Effects of Eutrophication.. <i>Journal of Applied Ecology</i> , 1997, 34, 833.	4.0	40
35	Limited Vegetation Development on a Created Salt Marsh Associated with Over-Consolidated Sediments and Lack of Topographic Heterogeneity. <i>Estuaries and Coasts</i> , 2015, 38, 325-336.	2.2	39
36	A statistical study of environmental influences on bivalve recruitment in the Wash, England. <i>Marine Ecology - Progress Series</i> , 1996, 143, 121-129.	1.9	36

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37	A modelling study of environmental influences on bivalve settlement in The Wash, England. <i>Marine Ecology - Progress Series</i> , 1998, 172, 197-214.	1.9	36
38	Selection pressures on vital rates in density-dependent populations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997, 264, 303-306.	2.6	35
39	Discarding in the English Channel, Western approaches, Celtic and Irish seas (ICES subarea VII). <i>Fisheries Research</i> , 2007, 86, 143-152.	1.7	35
40	Discarding in the North Sea and on the historical efficacy of gear-based technical measures in reducing discards. <i>Fisheries Research</i> , 2009, 95, 40-46.	1.7	35
41	Density-dependent populations require density-dependent elasticity analysis: an illustration using the LPA model of <i>Tribolium</i> . <i>Journal of Animal Ecology</i> , 2003, 72, 94-105.	2.8	32
42	Managed realignment in the UK - the first 5 years of colonization by birds. <i>Ibis</i> , 2004, 146, 101-110.	1.9	32
43	Terminal Restriction Fragment Length Polymorphism Data Analysis. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6342-6343.	3.1	30
44	Hawksbill turtle monitoring in Cousin Island Special Reserve, Seychelles: an eight-fold increase in annual nesting numbers. <i>Endangered Species Research</i> , 2010, 11, 195-200.	2.4	30
45	Population responses to perturbations: predictions and responses from laboratory mite populations. <i>Journal of Animal Ecology</i> , 2004, 73, 983-995.	2.8	29
46	Ecotypic differentiation and phenotypic plasticity in reproductive traits of <i>Armadillidium vulgare</i> (Isopoda: Oniscidea). <i>Oecologia</i> , 2005, 143, 51-60.	2.0	29
47	Does banning discards in an otter trawler fishery create incentives for more selective fishing?. <i>Fisheries Research</i> , 2013, 148, 137-146.	1.7	28
48	Toxicity of ivermectin to estuarine and marine invertebrates. <i>Marine Pollution Bulletin</i> , 1998, 36, 540-541.	5.0	27
49	Multivariate statistical analyses of sediment geochemistry. <i>Marine Pollution Bulletin</i> , 1990, 21, 297-299.	5.0	25
50	Morphological and other evidence on the degree of genetic differentiation between populations of <i>Nereis diversicolor</i> . <i>Journal of the Marine Biological Association of the United Kingdom</i> , 1992, 72, 365-381.	0.8	25
51	Contaminants in Sediments: Using Robust Regression for Grain-Size Normalization. <i>Estuaries and Coasts</i> , 1998, 21, 197.	1.7	25
52	Can we project changes in fish abundance and distribution in response to climate?. <i>Global Change Biology</i> , 2020, 26, 3891-3905.	9.5	25
53	The short-term impacts of implementing catch quotas and a discard ban on English North Sea otter trawlers. <i>ICES Journal of Marine Science</i> , 2014, 71, 1266-1276.	2.5	24
54	HYDROBIA ULVAE FEEDING RATES: A NOVEL WAY TO ASSESS SEDIMENT TOXICITY. <i>Environmental Toxicology and Chemistry</i> , 2006, 25, 3246.	4.3	23

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55	A comparative study of <i>Saccharomyces cerevisiae</i> sensitivity against eight yeast species sensitivities to a range of toxicants. <i>Chemosphere</i> , 2009, 75, 289-296.	8.2	22
56	Discard mitigation increases skate survival in the Bristol Channel. <i>Fisheries Research</i> , 2010, 102, 9-15.	1.7	22
57	Trace metals in sediments from the Humber estuary: A statistical analysis of spatial uniformity. <i>Netherlands Journal of Aquatic Ecology</i> , 1993, 27, 111-120.	0.3	21
58	Use of ivermectin in marine fish farms: Some concerns. <i>Marine Pollution Bulletin</i> , 1998, 36, 566-568.	5.0	21
59	Visibility of the impact of environmental noise: a response to Kaitala and Ranta. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 1119-1124.	2.6	21
60	Pollution-Tolerant Species and Communities: Intriguing Toys or Invaluable Monitoring Tools?. <i>Human and Ecological Risk Assessment (HERA)</i> , 2002, 8, 955-970.	3.4	20
61	An assessment of the potential of the microbial assay for risk assessment (MARA) for ecotoxicological testing. <i>Ecotoxicology</i> , 2010, 19, 1626-1633.	2.4	20
62	Is saltmarsh restoration success constrained by matching natural environments or altered succession? A test using niche models. <i>Journal of Applied Ecology</i> , 2018, 55, 1207-1217.	4.0	20
63	An Alternative Theory of Grasshopper Life Cycles. <i>Oikos</i> , 1993, 66, 263.	2.7	19
64	RNA/DNA RATIOS AS A SUBLETHAL ENDPOINT FOR LARGE-SCALE TOXICITY TESTS WITH THE NEMATODE <i>CAENORHABDITIS ELEGANS</i> . <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 1155.	4.3	19
65	Manipulating saltmarsh microtopography modulates the effects of elevation on sediment redox potential and halophyte distribution. <i>Journal of Ecology</i> , 2020, 108, 94-106.	4.0	19
66	Deep-Sea Diversity: Overlooked Messages from Shallow-Water Sediments. <i>Marine Ecology</i> , 2000, 21, 97-112.	1.1	18
67	Name that microbe: rapid identification of taxa responsible for individual fragments in fingerprints of microbial community structure. <i>Molecular Ecology Notes</i> , 2004, 4, 133-136.	1.7	18
68	Effects of genotoxicity and its consequences at the population level in sexual and asexual <i>Artemia</i> assessed by analysis of inter-simple sequence repeats (ISSR). <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2013, 757, 8-14.	1.7	18
69	Can turbidity caused by <i>Corophium volutator</i> (Pallas) activity be used to assess sediment toxicity rapidly?. <i>Marine Environmental Research</i> , 2003, 55, 181-192.	2.5	16
70	Joint effects of density dependence and toxicant exposure on <i>Drosophila melanogaster</i> populations. <i>Ecotoxicology and Environmental Safety</i> , 2008, 70, 236-243.	6.0	15
71	The role of surface coatings on sediments in sediment:water partitioning of trace elements and radionuclides. <i>Journal of Environmental Radioactivity</i> , 2000, 49, 55-64.	1.7	14
72	Compatibility of hydroxypropyl- $\beta$ -cyclodextrin with algal toxicity bioassays. <i>Environmental Pollution</i> , 2009, 157, 135-140.	7.5	14

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73	Multigenerational demographic responses of sexual and asexual <i>Artemia</i> to chronic genotoxicity by a reference mutagen. <i>Aquatic Toxicology</i> , 2013, 144-145, 66-74.	4.0	13
74	A consistent equation for ecological sensitivity in matrix population analysis. <i>Trends in Ecology and Evolution</i> , 2000, 15, 115.	8.7	10
75	Can land crabs be used as a rapid ecosystem evaluation tool? A test using distribution and abundance of several genera from the Seychelles. <i>Acta Oecologica</i> , 2009, 35, 711-719.	1.1	10
76	The Impact of Environmental Variation on Demographic Convergence of Leslie Matrix Population Models: An Assessment Using Lyapunov Characteristic Exponents. <i>Theoretical Population Biology</i> , 1996, 50, 18-30.	1.1	9
77	Reducing the discards of finfish and benthic invertebrates of UK beam trawlers. <i>Fisheries Research</i> , 2009, 97, 140-147.	1.7	9
78	Differential responses of sexual and asexual <i>Artemia</i> to genotoxicity by a reference mutagen: Is the comet assay a reliable predictor of population level responses?. <i>Ecotoxicology and Environmental Safety</i> , 2013, 91, 110-116.	6.0	9
79	Elasticity Analysis for Density-Dependent Populations in Stochastic Environments. <i>Ecology</i> , 2000, 81, 680.	3.2	8
80	The reproductive cycle of <i>platynereis dumerilii</i> (audouin & milneedwards) (polychaeta: nereidae) from the firth of clyde. <i>Sarsia</i> , 1989, 74, 79-84.	0.5	7
81	Cataloging Cowries: A Standardized Strategy to Record Six Key Species of Cowrie Shell from the West African Archaeological Record. <i>African Archaeological Review</i> , 2019, 36, 479-504.	1.4	6
82	Reply from T. Benton and A. Grant. <i>Trends in Ecology and Evolution</i> , 2000, 15, 116.	8.7	5
83	Indoor and Deep Sub-Tidal Intermediate Culture of <i>Trochus niloticus</i> for Restocking. <i>Reviews in Fisheries Science</i> , 2013, 21, 414-423.	2.1	5
84	Diet composition of starry smoothhound <i>Mustelus asterias</i> and methodological considerations for assessing the trophic level of predatory fish. <i>Journal of Fish Biology</i> , 2020, 96, 590-600.	1.6	5
85	Translocation of Wild <i>Trochus niloticus</i> : Prospects for Enhancing Depleted Philippine Reefs. <i>Reviews in Fisheries Science</i> , 2013, 21, 403-413.	2.1	4
86	Quantifying local variation in tidal regime using depth-logging fish tags. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 96, 122-122.	2.1	3
87	POLLUTION-INDUCED TOLERANCE TO COPPER OF NEMATODE COMMUNITIES IN THE SEVERELY CONTAMINATED RESTRONGUET CREEK AND ADJACENT ESTUARIES, CORNWALL, UNITED KINGDOM. <i>Environmental Toxicology and Chemistry</i> , 2000, 19, 454.	4.3	3
88	Detecting ecological effects of pollutants in the aquatic environment. , 0, , 147-161.		1
89	Exxon Valdez Oil Spill: Fate and Effects in Alaskan Waters.. <i>Journal of Applied Ecology</i> , 1996, 33, 1229.	4.0	0
90	Structured-Population Models in Marine, Terrestrial and Freshwater Systems.. <i>Journal of Applied Ecology</i> , 1997, 34, 1324.	4.0	0