Elena Gorokhova

List of Publications by Year
in descending order

125	6,759	94433 37	69250 77
papers	citations	h-index	g-index

135	135	135	7626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Impacts of Biofilm Formation on the Fate and Potential Effects of Microplastic in the Aquatic Environment. Environmental Science and Technology Letters, 2017, 4, 258-267.	8.7	881
2	Biological stoichiometry from genes to ecosystems. Ecology Letters, 2000, 3, 540-550.	6.4	867
3	Reducing Uncertainty and Confronting Ignorance about the Possible Impacts of Weathering Plastic in the Marine Environment. Environmental Science and Technology Letters, 2017, 4, 85-90.	8.7	372
4	The Effects of Natural and Anthropogenic Microparticles on Individual Fitness in Daphnia magna. PLoS ONE, 2016, 11, e0155063.	2.5	332
5	Evidence for selective bacterial community structuring on microplastics. Environmental Microbiology, 2018, 20, 2796-2808.	3.8	261
6	Microâ€byâ€micro interactions: How microorganisms influence the fate of marine microplastics. Limnology and Oceanography Letters, 2020, 5, 18-36.	3.9	188
7	Annual variability in ciliate community structure, potential prey and predators in the open northern Baltic Sea proper. Journal of Plankton Research, 2004, 26, 67-80.	1.8	143
8	An experimental study on variations in stable carbon and nitrogen isotope fractionation during growth of Mysis mixta and Neomysis integer. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 2203-2210.	1.4	131
9	Analysis of nucleic acids in Daphnia: development of methods and ontogenetic variations in RNA-DNA content. Journal of Plankton Research, 2002, 24, 511-522.	1.8	123
10	Global warming and hepatotoxin production by cyanobacteria: What can we learn from experiments?. Water Research, 2012, 46, 1420-1429.	11.3	106
11	Nitrogen fixation by cyanobacteria stimulates production in Baltic food webs. Ambio, 2015, 44, 413-426.	5.5	103
12	What we know and what we think we know about microplastic effects â€“ A critical perspective. Current Opinion in Environmental Science and Health, 2018, 1, 41-46.	4.1	102
13	Toward a stoichiometric framework for evolutionary biology. Oikos, 2005, 109, 6-17.	2.7	95
14	Rapid Physicochemical Changes in Microplastic Induced by Biofilm Formation. Frontiers in Bioengineering and Biotechnology, 2020, 8, 205.	4.1	92
15	Effects of preservation and storage of microcrustaceans in RNAlateron RNA and DNA degradation. Limnology and Oceanography: Methods, 2005, 3, 143-148.	2.0	88
16	Functional and ecological significance of rDNA intergenic spacer variation in a clonal organism under divergent selection for production rate. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 2373-2379.	2.6	86
17	Screening for microplastic particles in plankton samples: How to integrate marine litter assessment into existing monitoring programs?. Marine Pollution Bulletin, 2015, 99, 271-275.	5.0	85
18	Towards ecosystem-based management: identifying operational food-web indicators for marine ecosystems. ICES Journal of Marine Science, 2017, 74, 2040-2052.	2.5	82

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19	Bacteria-Mediated Effects of Antibiotics on Daphnia Nutrition. Environmental Science & Technology, 2015, 49, 5779-5787.	10.0	79
20	Salinity modulates the energy balance and reproductive success of co-occurring copepods Acartia tonsa and A. clausi in different ways. Marine Ecology - Progress Series, 2006, 312, 177-188.	1.9	79
21	Projected marine climate change: effects on copepod oxidative status and reproduction. Ecology and Evolution, 2013, 3, 4548-4557.	1.9	73
22	Stable isotopes show food web changes after invasion by the predatory cladoceran Cercopagis pengoi in a Baltic Sea bay. Oecologia, 2005, 143, 251-259.	2.0	71
23	Application of growth-related sublethal endpoints in ecotoxicological assessments using a harpacticoid copepod. Aquatic Toxicology, 2006, 77, 433-438.	4.0	69
24	Mesozooplankton Grazing on Picocyanobacteria in the Baltic Sea as Inferred from Molecular Diet Analysis. PLoS ONE, 2013, 8, e79230.	2.5	67
25	Individual growth as a nonâ€dietary determinant of the isotopic niche metrics. Methods in Ecology and Evolution, 2018, 9, 269-277.	5.2	56
26	Instantaneous salinity reductions affect the survival and feeding rates of the co-occurring copepods Acartia tonsa Dana and A. clausi Giesbrecht differently. Journal of Experimental Marine Biology and Ecology, 2008, 362, 18-25.	1.5	55
27	Direct and indirect effects of the fungicide azoxystrobin in outdoor brackish water microcosms. Ecotoxicology, 2010, 19, 431-444.	2.4	55
28	Bloom-Forming Cyanobacteria Support Copepod Reproduction and Development in the Baltic Sea. PLoS ONE, 2014, 9, e112692.	2.5	53
29	Relationships between nucleic acid levels and egg production rates in Acartia bifilosa: implications for growth assessment of copepods in situ. Marine Ecology - Progress Series, 2003, 262, 163-172.	1.9	51
30	Do deposit-feeders compete? Isotopic niche analysis of an invasion in a species-poor system. Scientific Reports, 2015, 5, 9715.	3.3	49
31	Microplastic-mediated transport of PCBs? A depuration study with Daphnia magna. PLoS ONE, 2019, 14, e0205378.	2.5	48
32	Isotopic niche reflects stress-induced variability in physiological status. Royal Society Open Science, 2018, 5, 171398.	2.4	45
33	Impacts of changing climate on the non-indigenous invertebrates in the northern Baltic Sea by end of the twenty-first century. Biological Invasions, 2016, 18, 3015-3032.	2.4	44
34	Exposure to contaminants exacerbates oxidative stress in amphipod Monoporeia affinis subjected to fluctuating hypoxia. Aquatic Toxicology, 2013, 127, 46-53.	4.0	42
35	Title is missing!. Hydrobiologia, 2000, 429, 207-218.	2.0	41
36	Indicator Properties of Baltic Zooplankton for Classification of Environmental Status within Marine Strategy Framework Directive. PLoS ONE, 2016, 11, e0158326.	2.5	41

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37	Feeding Activity and Xenobiotics Modulate Oxidative Status in Daphnia magna: Implications for Ecotoxicological Testing. Environmental Science & Technology, 2014, 48, 12886-12892.	10.0	40
38	A novel method for assessing microplastic effect in suspension through mixing test and reference materials. Scientific Reports, 2019, 9, 10695.	3.3	39
39	Predation by herring (Clupea harengus) and sprat (Sprattus sprattus) on Cercopagis pengoi in a western Baltic Sea bay. ICES Journal of Marine Science, 2004, 61, 959-965.	2.5	38
40	Predation of the introduced cladoceran Cercopagis pengoi on the native copepod Eurytemora affinis in the northern Baltic Sea. Marine Ecology - Progress Series, 2008, 362, 193-200.	1.9	36
41	Single and combined effects of hypoxia and contaminated sediments on the amphipod Monoporeia affinis in laboratory toxicity bioassays based on multiple biomarkers. Aquatic Toxicology, 2010, 99, 263-274.	4.0	36
42	Are Pharmaceuticals with Evolutionary Conserved Molecular Drug Targets More Potent to Cause Toxic Effects in Non-Target Organisms?. PLoS ONE, 2014, 9, e105028.	2.5	36
43	Stable Isotope Composition in Daphnia Is Modulated by Growth, Temperature, and Toxic Exposure: Implications for Trophic Magnification Factor Assessment. Environmental Science & Technology, 2015, 49, 6934-6942.	10.0	36
44	Sea Spray Aerosol Formation: Laboratory Results on the Role of Air Entrainment, Water Temperature, and Phytoplankton Biomass. Environmental Science & Technology, 2019, 53, 13107-13116.	10.0	36
45	Settling cyanobacterial blooms do not improve growth conditions for soft bottom meiofauna. Journal of Experimental Marine Biology and Ecology, 2009, 368, 138-146.	1.5	34
46	Shifts in food quality for herbivorous consumer growth: multiple golden means in the life history. Ecology, 2014, 95, 1272-1284.	3.2	34
47	Growth, toxicity and oxidative stress of a cultured cyanobacterium (<scp>D</scp>olichospermum sp.) under different <scp><scp>CO₂</scp></scp>/<scp>pH</scp> and temperature conditions. Phycological Research, 2015, 63, 56-63.	1.6	34
48	Grazing on cyanobacteria and transfer of diazotrophic nitrogen to zooplankton in the Baltic Sea. Limnology and Oceanography, 2018, 63, 672-686.	3.1	33
49	Food quality effects on copepod growth and development: Implications for bioassays in ecotoxicological testing. Ecotoxicology and Environmental Safety, 2009, 72, 351-357.	6.0	32
50	Distribution of the non-indigenous Cercopagis pengoi in the coastal waters of the eastern Gulf of Finland. ICES Journal of Marine Science, 1999, 56, 49-57.	2.5	32
51	Molecular evidence for the occurrence of ctenophore Mertensia ovum in the northern Baltic Sea and implications for the status of the Mnemiopsis leidyi invasion. Limnology and Oceanography, 2009, 54, 2025-2033.	3.1	31
52	Toxin-producing cyanobacterium Nodularia spumigena, potential competitors and grazers: testing mechanisms of reciprocal interactions. Aquatic Microbial Ecology, 2011, 62, 39-48.	1.8	31
53	Antibiotic-Induced Change of Bacterial Communities Associated with the Copepod Nitocra spinipes. PLoS ONE, 2012, 7, e33107.	2.5	29
54	Sucralose Induces Biochemical Responses in Daphnia magna. PLoS ONE, 2014, 9, e92771.	2.5	29

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55	Embryo aberrations in the amphipod Monoporeia affinis as indicators of toxic pollutants in sediments: A field evaluation. Ecological Indicators, 2016, 60, 18-30.	6.3	28
56	Isotopic evidence for zooplankton as an important food source for the mysid Paramysis lacustris in the Curonian Lagoon, the South-Eastern Baltic Sea. Estuarine, Coastal and Shelf Science, 2007, 73, 73-80.	2.1	27
57	A comparison of TO-PRO-1 iodide and 5-CFDA-AM staining methods for assessing viability of planktonic algae with epifluorescence microscopy. Journal of Microbiological Methods, 2012, 89, 216-221.	1.6	27
58	Ratio-dependent functional responses - tests with the zooplanktivore Mysis mixta. Marine Ecology - Progress Series, 2001, 216, 181-189.	1.9	27
59	RNA:DNA ratios of Baltic Sea herring larvae and copepods in embayment and open sea habitats. Estuarine, Coastal and Shelf Science, 2008, 76, 29-35.	2.1	26
60	Nitrogen Fixed By Cyanobacteria Is Utilized By Deposit-Feeders. PLoS ONE, 2014, 9, e104460.	2.5	26
61	Disparate effects of antibiotic-induced microbiome change and enhanced fitness inÂDaphnia magna. PLoS ONE, 2020, 15, e0214833.	2.5	26
62	Distribution and abundance of the American comb jelly (Mnemiopsis leidyi) â€“ A rapid invasion to the northern Baltic Sea during 2007. Aquatic Invasions, 2007, 2, 445-449.	1.6	26
63	Effects of experimental conditions on the feeding rate of Mysis mixta (Crustacea, Mysidacea). , 1997, 355, 167-172.		25
64	Nucleic Acid Content in Crustacean Zooplankton: Bridging Metabolic and Stoichiometric Predictions. PLoS ONE, 2014, 9, e86493.	2.5	25
65	Multi-level toxicity assessment of engineered cellulose nanofibrils inDaphnia magna. Nanotoxicology, 2018, 12, 509-521.	3.0	25
66	Toxic cyanobacteria Nodularia spumigena in the diet of Baltic mysids: Evidence from molecular diet analysis. Harmful Algae, 2009, 8, 264-272.	4.8	24
67	Biochemical proxies for growth and metabolism in Acartia bifilosa (Copepoda, Calanoida). Limnology and Oceanography: Methods, 2009, 7, 785-794.	2.0	24
68	Micro- and Nanoplastic Exposure Effects in Microalgae: A Meta-Analysis of Standard Growth Inhibition Tests. Frontiers in Environmental Science, 2020, 8, .	3.3	24
69	Trade-Offs between Predation Risk and Growth Benefits in the Copepod Eurytemora affinis with Contrasting Pigmentation. PLoS ONE, 2013, 8, e71385.	2.5	24
70	A combined approach to understand trophic interactions between Cercopagis pengoi (Cladocera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.1	23
71	Kinetic 15N-isotope effects on algal growth. Scientific Reports, 2017, 7, 44181.	3.3	23
72	Elemental composition of Mysis mixta (Crustacea, Mysidacea) and energy costs of reproduction and embryogenesis under laboratory conditions. Journal of Experimental Marine Biology and Ecology, 2000, 246, 103-123.	1.5	22

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73	Exploring and modeling the growth dynamics of Mysis mixta. Ecological Modelling, 1998, 110, 45-54.	2.5	21
74	Role of mysid seasonal migrations in the organic matter transfer in the Curonian Lagoon, south-eastern Baltic Sea. Estuarine, Coastal and Shelf Science, 2008, 80, 225-234.	2.1	21
75	Growth Retardation and Altered Isotope Composition As Delayed Effects of PCB Exposure in Daphnia magna. Environmental Science & Technology, 2016, 50, 8296-8304.	10.0	21
76	Behavioral, Ecological and Genetic Differentiation in an Open Environmentâ€"A Study of a Mysid Population in the Baltic Sea. PLoS ONE, 2013, 8, e57210.	2.5	20
77	The effects of short-term pH decrease on the reproductive output of the copepodAcartia bifilosaâ€“ a laboratory study. Marine and Freshwater Behaviour and Physiology, 2014, 47, 173-183.	0.9	20
78	Passive dosing of triclosan in multigeneration tests with copepods â€“ stable exposure concentrations and effects at the low Î¼g/L range. Environmental Toxicology and Chemistry, 2017, 36, 1254-1260.	4.3	19
79	Linking consumer physiological status to food-web structure and prey food value in the Baltic Sea. Ambio, 2020, 49, 391-406.	5.5	18
80	Moult cycle and its chronology in Mysis mixta and Neomysis integer (Crustacea, Mysidacea): implications for growth assessment. Journal of Experimental Marine Biology and Ecology, 2002, 278, 179-194.	1.5	17
81	A multilevel approach to predict toxicity in copepod populations: Assessment of growth, genetics, and population structure. Aquatic Toxicology, 2006, 79, 41-48.	4.0	17
82	Metal contamination in harbours impacts life-history traits and metallothionein levels in snails. PLoS ONE, 2017, 12, e0180157.	2.5	17
83	Using Compound-Specific and Bulk Stable Isotope Analysis for Trophic Positioning of Bivalves in Contaminated Baltic Sea Sediments. Environmental Science & Technology, 2018, 52, 4861-4868.	10.0	17
84	Mercury-methylating bacteria are associated with copepods: A proof-of-principle survey in the Baltic Sea. PLoS ONE, 2020, 15, e0230310.	2.5	17
85	Biomarker-enhanced assessment of reproductive disorders in Monoporeia affinis exposed to contaminated sediment in the Baltic Sea. Ecological Indicators, 2016, 63, 187-195.	6.3	16
86	DNA epigenetic marks are linked to embryo aberrations in amphipods. Scientific Reports, 2020, 10, 655.	3.3	16
87	Decreased astaxanthin at high feeding rates in the calanoid copepod Acartia bifilosa. Journal of Plankton Research, 2009, 31, 661-668.	1.8	15
88	Microplastic Intake, Its Biotic Drivers, and Hydrophobic Organic Contaminant Levels in the Baltic Herring. Frontiers in Environmental Science, 2019, 7, .	3.3	15
89	Relationships between RNA content and egg production rate in Acartia bifilosa (Copepoda, Calanoida) of different spatial and temporal origin. Marine Biology, 2008, 153, 483-491.	1.5	14
90	Assessing diet of the non-indigenous predatory cladoceran Cercopagis pengoi using stable isotopes. Journal of Plankton Research, 2012, 34, 376-387.	1.8	13

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91	Ecotoxicological assessment of suspended solids: The importance of biofilm and particle aggregation. Environmental Pollution, 2021, 280, 116888.	7.5	13
92	Molecular identification of the invasive cladoceranCercopagis pengoi(Cladocera: Onychopoda) in stomachs of predators. Limnology and Oceanography: Methods, 2006, 4, 1-6.	2.0	12
93	Stuck between a rock and a hard place: zooplankton vertical distribution and hypoxia in the Gulf of Finland, Baltic Sea. Marine Biology, 2015, 162, 1429-1440.	1.5	11
94	Seawater pH Predicted for the Year 2100 Affects the Metabolic Response to Feeding in Copepodites of the Arctic Copepod Calanus glacialis. PLoS ONE, 2016, 11, e0168735.	2.5	11
95	Shifts in rotifer life history in response to stable isotope enrichment: testing theories of isotope effects on organismal growth. Royal Society Open Science, 2017, 4, 160810.	2.4	11
96	Insufficient evidence for BMAA transfer in the pelagic and benthic food webs in the Baltic Sea. Scientific Reports, 2019, 9, 10406.	3.3	11
97	Reconsidering evidence for Mnemiopsis invasion in European waters. Journal of Plankton Research, 2010, 32, 93-95.	1.8	10
98	Effects of <scp>UV</scp>â€<scp>C</scp> and Vacuumâ€<scp>UV T</scp>i<scp>O</scp>₂ Advanced Oxidation Processes on the Acute Mortality of Microalgae. Photochemistry and Photobiology, 2015, 91, 1142-1149.	2.5	10
99	Individual body size as a predictor of lipid storage in Baltic Sea zooplankton. Journal of Plankton Research, 2019, 41, 273-280.	1.8	9
100	Nucleic acid levels in copepods: dynamic response to phytoplankton blooms in the northern Baltic proper. Marine Ecology - Progress Series, 2007, 349, 213-225.	1.9	9
101	Transferring mixtures of chemicals from sediment to a bioassay using silicone-based passive sampling and dosing. Environmental Sciences: Processes and Impacts, 2017, 19, 1404-1413.	3.5	8
102	Increase in stable isotope ratios driven by metabolic alterations in amphipods exposed to the beta-blocker propranolol. PLoS ONE, 2019, 14, e0211304.	2.5	8
103	Algal Growth at Environmentally Relevant Concentrations of Suspended Solids: Implications for Microplastic Hazard Assessment. Frontiers in Environmental Science, 2020, 8, .	3.3	8
104	How Copepods Can Eat Toxins Without Getting Sick: Gut Bacteria Help Zooplankton to Feed in Cyanobacteria Blooms. Frontiers in Microbiology, 2020, 11, 589816.	3.5	8
105	Understanding Biofilm Formation in Ecotoxicological Assays With Natural and Anthropogenic Particulates. Frontiers in Microbiology, 2021, 12, 632947.	3.5	8
106	Responses of Phyto- and Zooplankton Communities to Prymnesium polylepis (Prymnesiales) Bloom in the Baltic Sea. PLoS ONE, 2014, 9, e112985.	2.5	8
107	A single-step staining method to evaluate egg viability in zooplankton. Limnology and Oceanography: Methods, 2010, 8, 414-423.	2.0	7
108	Distribution and reproduction of the Arctic ctenophore Mertensia ovum in the Baltic Sea. Marine Ecology - Progress Series, 2013, 491, 111-124.	1.9	7

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109	Nitrogen isotope composition of amino acids reveals trophic partitioning in two sympatric amphipods. Ecology and Evolution, 2020, 10, 10773-10784.	1.9	7
110	Polycyclic Aromatic Hydrocarbons Have Adverse Effects on Benthic Communities in the Baltic Sea: Implications for Environmental Status Assessment. Frontiers in Environmental Science, 2021, 9, .	3.3	7
111	Does female RNA content reflect viable egg production in copepods? A test with the Baltic copepod Acartia tonsa. Journal of Plankton Research, 2011, 33, 1460-1463.	1.8	6
112	Light Increases Energy Transfer Efficiency in a Boreal Stream. PLoS ONE, 2014, 9, e113675.	2.5	6
113	Feeding of the Arctic ctenophore Mertensia ovum in the Baltic Sea: evidence of the use of microbial prey. Journal of Plankton Research, 2014, 36, 91-103.	1.8	5
114	In-depth analysis of an alternate-stage Prymnesium polylepis (Haptophyta) bloom and long-term trends in abundance of Prymnesiales species in the Baltic Sea. Marine Ecology - Progress Series, 2015, 526, 55-66.	1.9	4
115	Antioxidant Responses in Copepods Are Driven Primarily by Food Intake, Not by Toxin-Producing Cyanobacteria in the Diet. Frontiers in Physiology, 2021, 12, 805646.	2.8	3
116	Embryonic development time of parthenogenically reproducing Cercopagis pengoi (Cladocera,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	0.7	2
117	Calmodulin inhibition as a mode of action of antifungal imidazole pharmaceuticals in non-target organisms. Toxicology Research, 2020, 9, 425-430.	2.1	2
118	Microbiota-Dependent and -Independent Production of <scp>l-</scp> Dopa in the Gut of Daphnia magna. MSystems, 2021, 6, e0089221.	3.8	1
119	Title is missing!. , 2020, 15, e0230310.		0
120	Title is missing!. , 2020, 15, e0230310.		0
121	Title is missing!. , 2020, 15, e0230310.		0
122	Title is missing!. , 2020, 15, e0230310.		0
123	Title is missing!. , 2020, 15, e0230310.		0
124	Title is missing!. , 2020, 15, e0230310.		0
125	Interspecific Interactions Drive Nonribosomal Peptide Production in Nodularia spumigena. Applied and Environmental Microbiology, 0, , .	3.1	0