

# Erik B Muller

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,178  
citations

430874

18  
h-index

454955

30  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Local control of resource allocation is sufficient to model optimal dynamics in syntrophic systems. <i>Theoretical Ecology</i> , 2020, 13, 481-501.	1.0	6
2	Conventional and nano-copper pesticides are equally toxic to the estuarine amphipod <i>Leptocheirus plumulosus</i> . <i>Aquatic Toxicology</i> , 2020, 224, 105481.	4.0	25
3	Inhibition and damage schemes within the synthesizing unit concept of dynamic energy budget theory. <i>Journal of Sea Research</i> , 2019, 143, 165-172.	1.6	2
4	Regulation of reproductive processes with dynamic energy budgets. <i>Functional Ecology</i> , 2019, 33, 819-832.	3.6	12
5	Linking Adverse Outcome Pathways to Dynamic Energy Budgets: A Conceptual Model. , 2018, , 281-302.		7
6	Incorporating Suborganismal Processes into Dynamic Energy Budget Models for Ecological Risk Assessment. <i>Integrated Environmental Assessment and Management</i> , 2018, 14, 615-624.	2.9	42
7	Water transport through tall trees: A vertically explicit, analytical model of xylem hydraulic conductance in stems. <i>Plant, Cell and Environment</i> , 2018, 41, 1821-1839.	5.7	36
8	Host-Symbiont Interaction Model Explains Non-monotonic Response of Soybean Growth and Seed Production to Nano-CeO <sub>2</sub> Exposure. <i>Environmental Science &amp; Technology</i> , 2017, 51, 4944-4950.	10.0	9
9	Photosynthetic efficiency predicts toxic effects of metal nanomaterials in phytoplankton. <i>Aquatic Toxicology</i> , 2017, 183, 85-93.	4.0	33
10	A dynamic bioenergetic model for coral-Symbiodinium symbioses and coral bleaching as an alternate stable state. <i>Journal of Theoretical Biology</i> , 2017, 431, 49-62.	1.7	63
11	Integrating the Effects of Ocean Acidification across Functional Scales on Tropical Coral Reefs. <i>BioScience</i> , 2016, 66, 350-362.	4.9	51
12	<i>Daphnia magna</i> 's sense of competition: intra-specific interactions (ISI) alter life history strategies and increase metals toxicity. <i>Ecotoxicology</i> , 2016, 25, 1126-1135.	2.4	10
13	Feedbacks and tipping points in organismal response to oxidative stress. <i>Journal of Theoretical Biology</i> , 2016, 404, 361-374.	1.7	12
14	The implications of reduced metabolic rate in a resource-limited coral. <i>Journal of Experimental Biology</i> , 2016, 219, 870-7.	1.7	8
15	Relating suborganismal processes to ecotoxicological and population level endpoints using a bioenergetic model. <i>Ecological Applications</i> , 2015, 25, 1691-1710.	3.8	20
16	Quantitative Adverse Outcome Pathway Analysis of Hatching in Zebrafish with CuO Nanoparticles. <i>Environmental Science &amp; Technology</i> , 2015, 49, 11817-11824.	10.0	54
17	Dynamic energy budget modeling reveals the potential of future growth and calcification for the coccolithophore <i>Emiliania huxleyi</i> in an acidified ocean. <i>Global Change Biology</i> , 2014, 20, 2031-2038.	9.5	28
18	Impact of engineered zinc oxide nanoparticles on the energy budgets of <i>Mytilus galloprovincialis</i> . <i>Journal of Sea Research</i> , 2014, 94, 29-36.	1.6	43

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19	Impact of Engineered Zinc Oxide Nanoparticles on the Individual Performance of <i>Mytilus galloprovincialis</i> . <i>PLoS ONE</i> , 2013, 8, e61800.	2.5	60
20	Entrainment of cell division in phytoplankton with dynamic energy budgets. <i>Journal of Sea Research</i> , 2011, 66, 447-455.	1.6	9
21	Synthesizing units as modeling tool for photosynthesizing organisms with photoinhibition and nutrient limitation. <i>Ecological Modelling</i> , 2011, 222, 637-644.	2.5	12
22	Impact of excess and harmful radiation on energy budgets in scleractinian corals. <i>Ecological Modelling</i> , 2011, 222, 1315-1322.	2.5	13
23	Benchmarks in organism performance and their use in comparative analyses. <i>Oecologia</i> , 2011, 167, 379-390.	2.0	19
24	Sublethal toxicant effects with dynamic energy budget theory: application to mussel outplants. <i>Ecotoxicology</i> , 2010, 19, 38-47.	2.4	20
25	Sublethal toxicant effects with dynamic energy budget theory: model formulation. <i>Ecotoxicology</i> , 2010, 19, 48-60.	2.4	47
26	Impacts of Metal Oxide Nanoparticles on Marine Phytoplankton. <i>Environmental Science &amp; Technology</i> , 2010, 44, 7329-7334.	10.0	280
27	Dynamic energy budgets in syntrophic symbiotic relationships between heterotrophic hosts and photoautotrophic symbionts. <i>Journal of Theoretical Biology</i> , 2009, 259, 44-57.	1.7	57
28	Bullfrogs, Disturbance Regimes, and the Persistence of California Red-Legged Frogs. <i>Journal of Wildlife Management</i> , 2003, 67, 424.	1.8	54
29	Stoichiometric food quality and herbivore dynamics. <i>Ecology Letters</i> , 2001, 4, 519-529.	6.4	93
30	Survival and Production in Variable Resource Environments. <i>Bulletin of Mathematical Biology</i> , 2000, 62, 1163-1189.	1.9	50